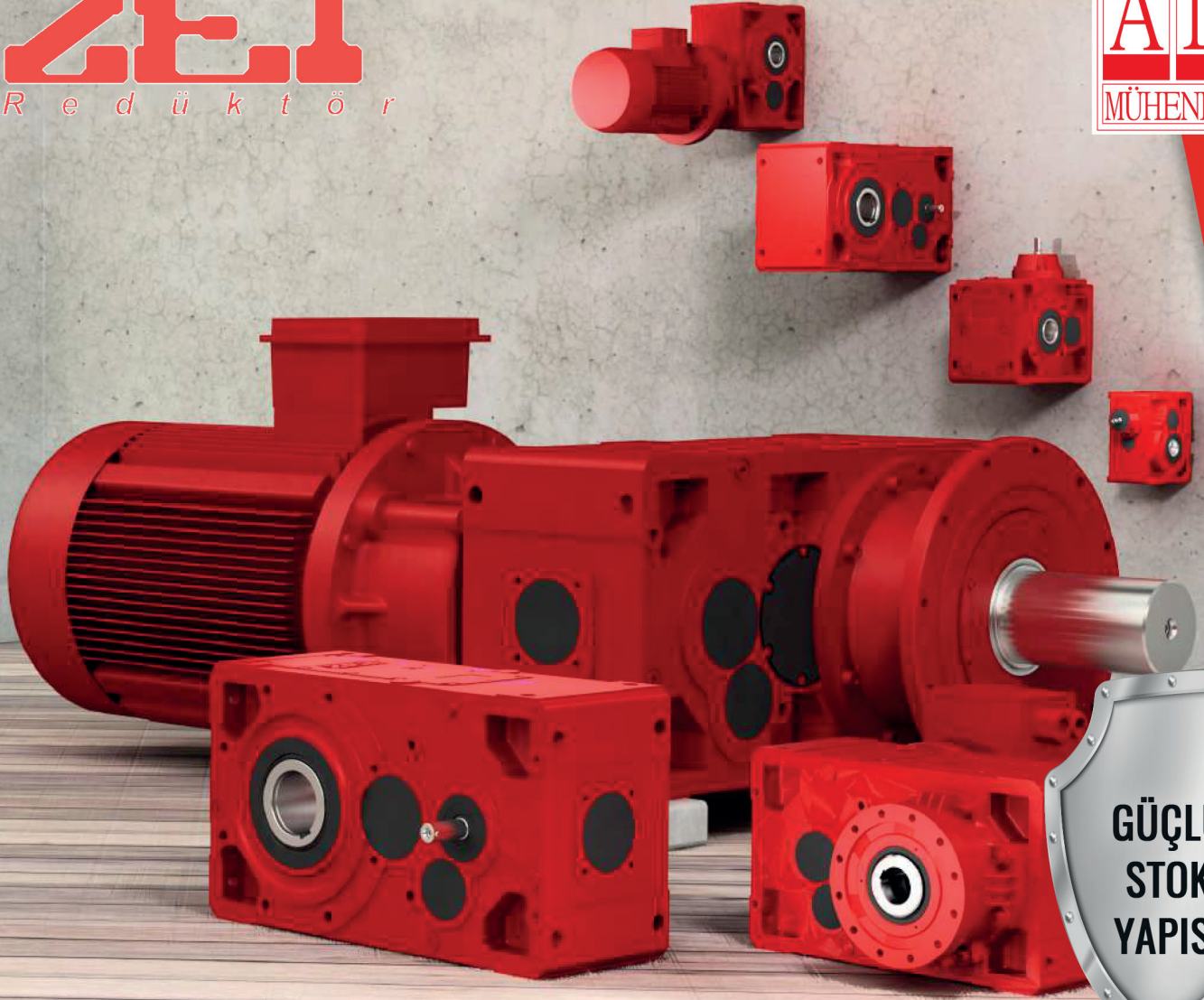


**ZET**  
R e d ü k t ö r

**ADS**  
MÜHENDİSLİK



## HE – MHE – KH– MKH Serisi Redüktörler

En iyi iskonto avantajlarıyla tanışın

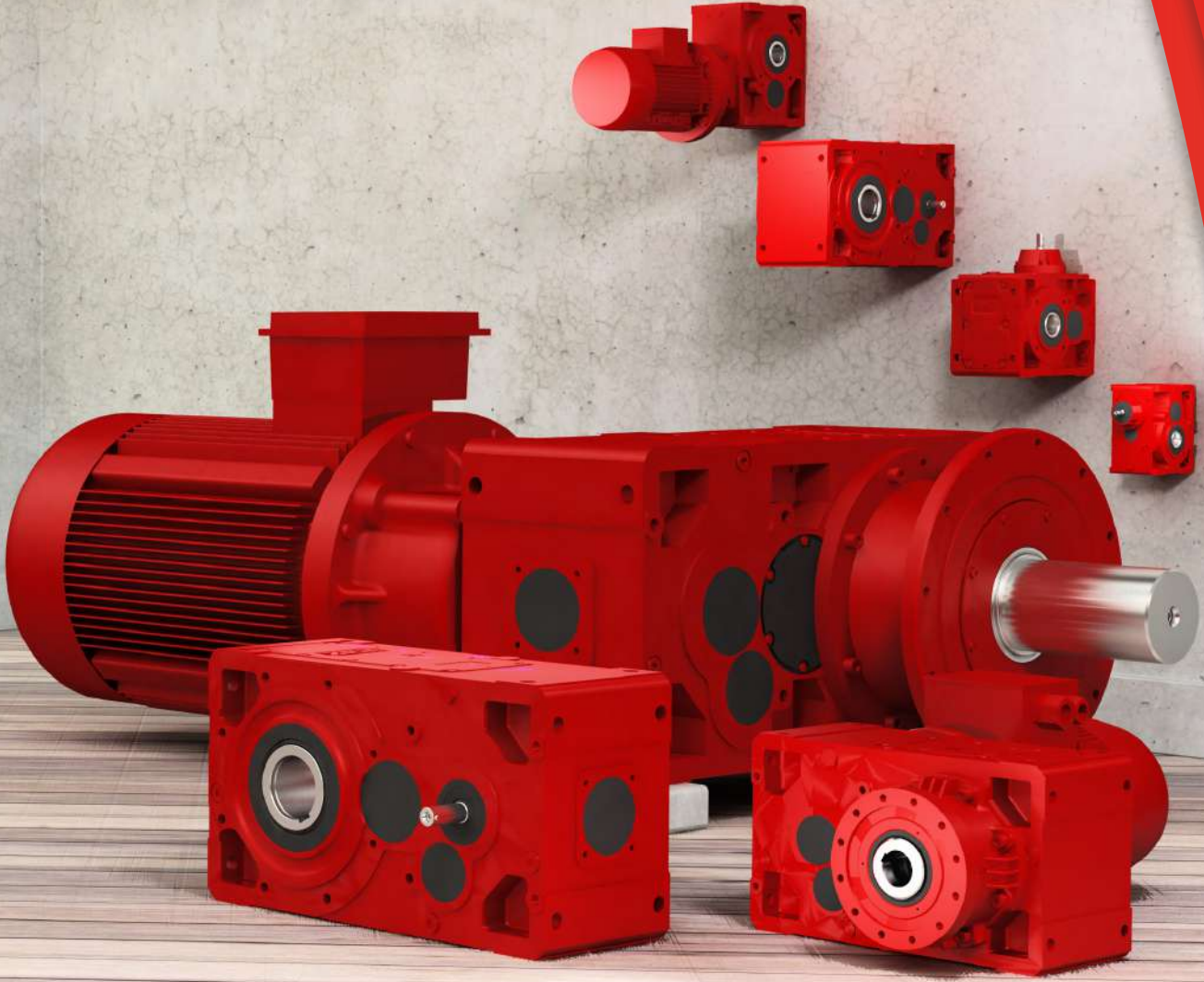
20 yıllık tecrübesini hayatın tüm alanlarında müşterileriyle paylaşan ADS Mühendislik “çözüm ortağınızdır.”

**444 237 4**

**Hemen  
Bilgi Al**



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# HE-MHE-KH-MKH

Serisi Ürün Kataloğu | Series Product Catalogue



**ZET Redüktör'ün YENİ HELİSEL VE KONİK HELİSEL  
SERİSİ UZUN KULLANIM ÖMRÜ İLE GEREK  
DUYDUĞUNUZ HER YERDE KULLANIMA HAZIR**

*THE NEW HELICAL AND BEVEL-HELICAL SERIES GEARBOXES  
OF OUR ZET Redüktör WITH LONG SERVICE LIFE ARE  
READY TO SERVE FOR YOU WHEN NEEDED:*

Rijit MonoBlok gövdesi ve  
hassas yapısı sürdürülebilir  
yüksek performans sağlar.

*Rigid MonoBlock body and  
strong structure to provide long  
lasting high performance*

Üniversal gövde tipi sayesinde her  
yüzeyden sorunsuzca monte edilebilir.

*Very easy and practical assembly  
thanking to its universal housing design*

Tüm dişliler sement edilmiş  
ve 6 kalitede taşlanmıştır

*All the gears in gearbox are hardened  
and ground with 6 quality*

MHE ve MKH serilerinde  
standart IEC motor bağlantı  
flanşları kullanılmaktadır

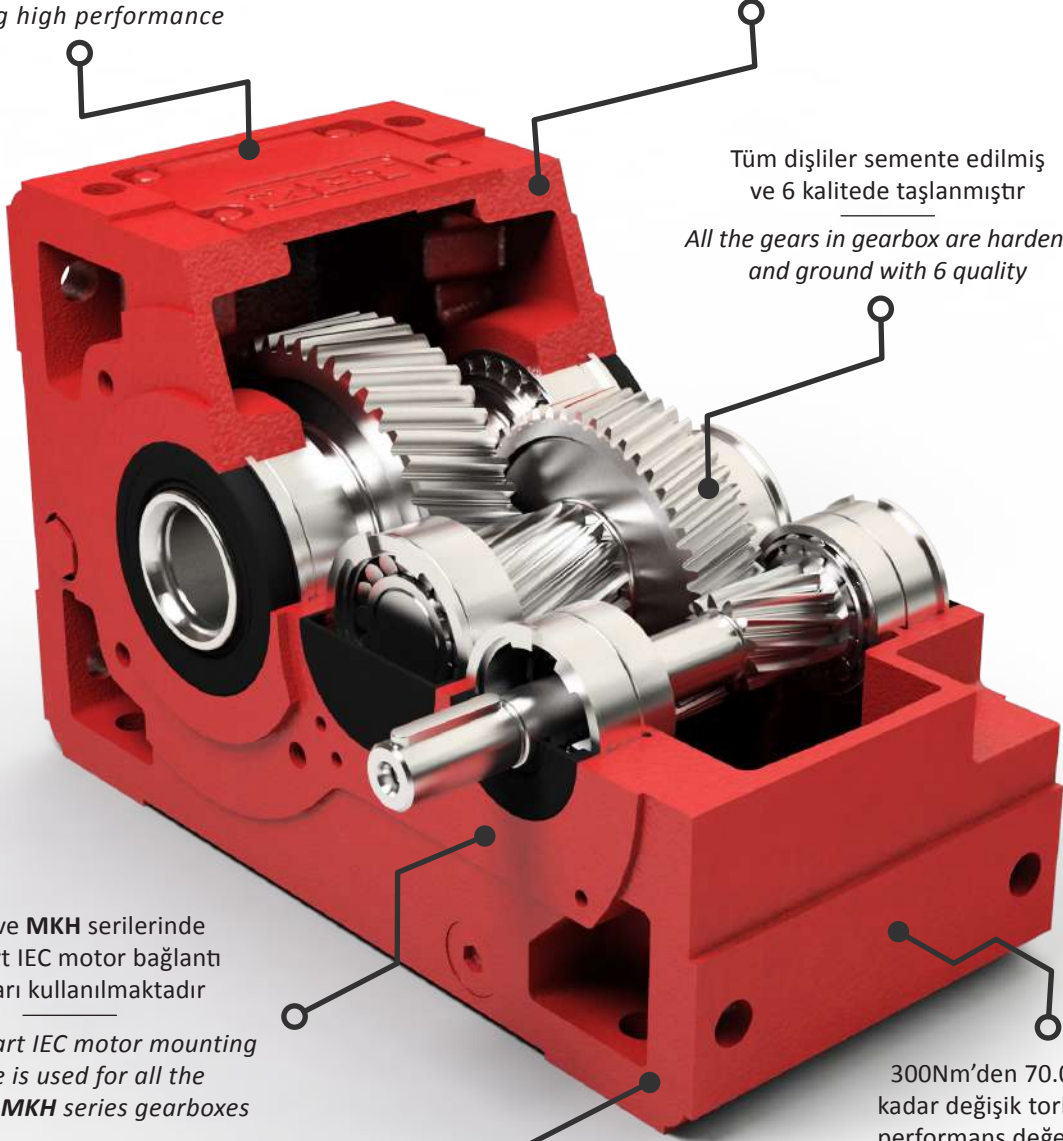
*The standart IEC motor mounting  
flange is used for all the  
MHE and MKH series gearboxes*

300Nm'den 70.000Nm'ye  
kadar değişik tork kapasiteli  
performans değerleri sunar.

*Maintaining various torque  
capacity performance rates  
from 300Nm to 70.000Nm*

$i = 2,5$ 'dan  $i = 150$ 'a kadar geniş  
tahvil oranı seçeneğine sahiptir.

*Having a wide range of ratio  
varying from  $i = 2,5$  to  $i = 150$*





|                                                                               |           |
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## ■ Terminoloji

| Sembol   | Açıklama                                                                  | Birim |
|----------|---------------------------------------------------------------------------|-------|
| $f_d$    | Servis Faktörü Düzeltme Katsayısı (Dur-Kalk Sayısı)                       | -     |
| $f_n$    | Servis Faktörü Düzeltme Katsayısı (Çıkış Devri)                           | -     |
| $f_r$    | Radial yük Düzeltme Katsayısı                                             | -     |
| $f_s$    | Servis Faktörü                                                            | -     |
| $f_{t1}$ | Termal Kapasite Düzeltme Katsayısı (Giriş Devri)                          | -     |
| $f_{t2}$ | Termal Kapasite Düzeltme Katsayısı (Montaj Pozisyonu)                     | -     |
| $f_{t3}$ | Termal Kapasite Düzeltme Katsayısı (Ortam Sıcaklığı - Çalışma Süresi)     | -     |
| $f_{t4}$ | Termal Kapasite Düzeltme Katsayısı (Mekanik Soğutma)                      | -     |
| $f_v$    | Servis Faktörü Düzeltme Katsayısı (Redüktör Yük Sınıfı ve Öngörülen Ömür) | -     |
| $F_a$    | Eksenel Yük                                                               | N     |
| $F_{a1}$ | Giriş Milinde İzin Verilebilir Eksenel Yük                                | N     |
| $F_{a2}$ | Çıkış Milinde İzin Verilebilir Eksenel Yük                                | N     |
| $F_r$    | Radial Yük                                                                | N     |
| $F_{r1}$ | Giriş Milinde İzin Verilebilir Radial Yük                                 | N     |
| $F_{r2}$ | Çıkış Milinde İzin Verilebilir Radial Yük                                 | N     |
| $i$      | Gerçek Tahvil Oranı                                                       | -     |
| $i_n$    | Nominal Tahvil Oranı                                                      | -     |
| $M_1$    | Giriş Momenti                                                             | Nm    |
| $M_2$    | Çıkış Momenti                                                             | Nm    |
| $Mn_1$   | Nominal Giriş Momenti                                                     | Nm    |
| $Mn_2$   | Nominal Çıkış Momenti                                                     | Nm    |
| $Mr_1$   | Gerekli Giriş Momenti                                                     | Nm    |
| $Mr_2$   | Gerekli Çıkış Momenti                                                     | Nm    |
| $n_1$    | Redüktör Giriş Devri                                                      | d/d   |
| $n_2$    | Redüktör Çıkış Devri                                                      | d/d   |
| $n_{zn}$ | Nominal Redüktör Çıkış Devri                                              | d/d   |
| $\eta$   | Verim                                                                     | -     |
| $P_1$    | Giriş Gücü                                                                | kW    |
| $P_2$    | Çıkış Gücü                                                                | kW    |
| $Pn_1$   | Nominal Giriş Gücü                                                        | kW    |
| $Pn_2$   | Nominal Çıkış Gücü                                                        | kW    |
| $Pr_1$   | Gerekli Giriş Gücü                                                        | kW    |
| $Pr_2$   | Gerekli Çıkış Gücü                                                        | kW    |
| $P_{TN}$ | Nominal Termal Güç                                                        | kW    |
| $P_T$    | Termal Güç                                                                | kW    |



| Symbol                | Direction                                                                | Unit |
|-----------------------|--------------------------------------------------------------------------|------|
| $f_d$                 | Service Factor Correction as per Start/Stop Frequency                    | -    |
| $f_n$                 | Service Factor Correction as per Output Speed                            | -    |
| $f_r$                 | Radial Loads Correction Factor                                           | -    |
| $f_s$                 | Required Serviced Factor                                                 | -    |
| $f_{t1}$              | Thermal Power Correction Factor as Input Speed                           | -    |
| $f_{t2}$              | Thermal Power Correction Factor as Mounting Position                     | -    |
| $f_{t3}$              | Thermal Power Correction Factor as Ambient Temperature - Cyclic Duration | -    |
| $f_{t4}$              | Thermal Power Correction Factor as Mechanical Cooling                    | -    |
| $f_v$                 | Service Factor Correction as the Nature of Load                          | -    |
| <b>Fa</b>             | Axial Load                                                               | N    |
| <b>Fa<sub>1</sub></b> | Permissible Axial Load on Input Shaft                                    | N    |
| <b>Fa<sub>2</sub></b> | Permissible Axial Load on Output Shaft                                   | N    |
| <b>Fr</b>             | Radial Load                                                              | N    |
| <b>Fr<sub>1</sub></b> | Permissible Radial Load on the Input Shaft                               | N    |
| <b>Fr<sub>2</sub></b> | Permissible Radial Load on the Output Shaft                              | N    |
| $i$                   | Transmission Ratio                                                       | -    |
| $i_n$                 | Rated Transmission Ratio                                                 | -    |
| <b>M<sub>1</sub></b>  | Input Torque                                                             | Nm   |
| <b>M<sub>2</sub></b>  | Output Torque                                                            | Nm   |
| <b>Mn<sub>1</sub></b> | Rated Input Torque                                                       | Nm   |
| <b>Mn<sub>2</sub></b> | Rated Output Torque                                                      | Nm   |
| <b>Mr<sub>1</sub></b> | Required Input Torque                                                    | Nm   |
| <b>Mr<sub>2</sub></b> | Required Output Torque                                                   | Nm   |
| <b>n<sub>1</sub></b>  | Input Speed of Gearbox                                                   | rpm  |
| <b>n<sub>2</sub></b>  | Output Speed of Gearbox                                                  | rpm  |
| <b>n<sub>zn</sub></b> | Rated Output Speed of Gearbox                                            | rpm  |
| <b>η</b>              | Efficiency                                                               | -    |
| <b>P<sub>1</sub></b>  | Input Power                                                              | kW   |
| <b>P<sub>2</sub></b>  | Output Power                                                             | kW   |
| <b>Pn<sub>1</sub></b> | Rated Input Power                                                        | kW   |
| <b>Pn<sub>2</sub></b> | Rated Output Power                                                       | kW   |
| <b>Pr<sub>1</sub></b> | Required Input Power                                                     | kW   |
| <b>Pr<sub>2</sub></b> | Required Output Power                                                    | kW   |
| <b>P<sub>TN</sub></b> | Rated Thermal Power                                                      | kW   |
| <b>P<sub>T</sub></b>  | Thermal Power                                                            | kW   |



## Nasıl Sipariş Edilir? / How to Order?

|     |       |      |   |    |    |       |       |
|-----|-------|------|---|----|----|-------|-------|
| MHE | 2 160 | 19,4 | A | HS | M3 | F450R | 180M4 |
| 1   | 2     | 3    | 4 | 5  | 6  | 7     | 8     |

### 1 Temel Tip Tanımlaması / Series of Gear Unit

|                                                               |                                                                                   |                                                                                 |                                                                                                     |
|---------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| <b>HE</b><br>Paralel Milli Redüktör<br>Parallel Shaft Gearbox | <b>MHE</b><br>Paralel Milli Motorlu Redüktör<br>Parallel Shaft Gearbox with Motor | <b>KH</b><br>Konik Helisel Dişli Redüktör<br>Bevel Helical - Rightangle Gearbox | <b>MKH</b><br>Konik Helisel Dişli Motorlu Redüktör<br>Bevel Helical - Rightangle Gearbox with Motor |
|                                                               |                                                                                   |                                                                                 |                                                                                                     |

### 2 Kademe Sayısı ve Gövde Büyüklüğü / Number of Stages & Housing Size

| Kademe Sayısı<br>Number of Stages |                            | Gövde Büyüklüğü<br>Housing Size |
|-----------------------------------|----------------------------|---------------------------------|
| 1                                 | Tek Kademe<br>Single-Stage | 063                             |
|                                   |                            | 080                             |
|                                   |                            | 100                             |
|                                   |                            | 125                             |
| 2                                 | İki Kademe<br>Double-Stage | 140                             |
|                                   |                            | 160                             |
|                                   |                            | 180                             |
|                                   |                            | 200                             |
| 3                                 | Üç Kademe<br>Triple-Stage  | 225                             |
|                                   |                            | 250                             |
|                                   |                            | 280                             |
|                                   |                            | 320                             |
|                                   |                            | 360                             |

### 3 Tahvil Oranı / Ratio

$$2,5 < i < 150$$



**4** Giriş Mili Seçenekleri / Input Shaft Configurations

**A**

**D**

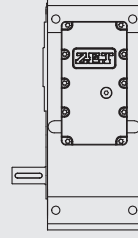
**L**

**R**

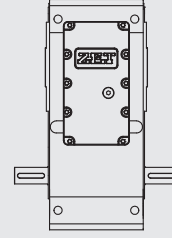
**S**



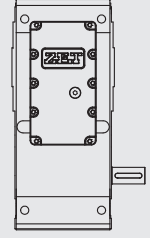
Ölçü Tabloları  
Dimension Tables



**A**



**D**



**L**

**5** Çıkış Mili Seçenekleri / Output Shaft Configurations

**D**

Dolu Çıkış Mili  
Solid Shaft

**HS**

Kovan Çıkış Mili  
Hollow Shaft

**S**

Sıkma Bilezikli Çıkış Mili  
Shrink Disk

**L**

Sol  
Left

**R**

Sağ  
Right

Bu seçenek iki harfli olarak tanımlanmıştır. **SL, SD, DD** veya **HS** gibi.

The option is defined with two letters. Such as **SL, SD, DD** or **HS**

**6** Montaj Pozisyonu / Mounting Positions

**M3**



**M4**



**M5**



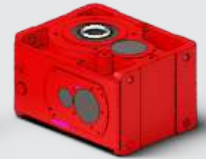
**M6**



**M7**



**M8**



**7** Flanş Çapı ve Yönü / Flange Diameter and Direction

**F**

Flanş Dış Çapı  
Flange Diameter

**L**

Sol Yönlü  
Left

**R**

Sağ Yönlü  
Right

**8** Motor Büyüklüğü / Motor Size



Ölçü Tabloları  
Dimension Tables

Eğer motor **ZET Redüktör** tarafından tedarik edilmeyecek ise bu kısımda motor mil çapı ve flanş çapı verilmelidir.

If the motor is not supplied by **ZET Redüktör**, the values of the motor shaft diameter and motor flange diameter should be specified in this section





## Montaj Pozisyonları ve Yağlama / Mounting Positions and Lubrication



Redüktör gövde büyüklüğü ve montaj pozisyonlarına bağlı olarak kullanılacak yağ miktarları ölçü tablolarında verilmiştir. Tablolarda yer alan değerler yaklaşık olarak verilmiştir. Doğru yağ miktarı için, yağ seviye göstergesini veya yağ seviye çubuğunu referans alınız.

Redüktör içerisinde kullanılacak yağın ISO viskozite değeri aşağıdaki tablodan seçilerek uygun dişi yağı kullanılmalıdır.

| n <sub>2</sub><br>Çıkış Devri<br>[d/d]<br>Speed [rpm] | Ortam sıcaklığı [°C]<br>Ambient Temperature [°C] |              |                               |
|-------------------------------------------------------|--------------------------------------------------|--------------|-------------------------------|
|                                                       | Mineral Yağ<br>Mineral Oil                       |              | Sentetik Yağ<br>Synthetic Oil |
|                                                       | 0 - 20 [°C]                                      | 20 - 40 [°C] | 0 - 40 [°C]                   |
| > 220                                                 | 150                                              | 150          | 150                           |
| 22 - 220                                              | 150                                              | 220          | 220                           |
| 5 - 22                                                | 220                                              | 320          | 320                           |
| 5 >                                                   | 320                                              | 460          | 460                           |

Lubricant oil quantities are described on the dimension tables part in accordance with the gearbox sizes and mounting positions. The quantities of lubricant oil are given on the diagram are indicative. Please refer to sight glass centre line or to the dipstick if supplied, for correct filling.

Please select the right ISO viscosity of the lubricant used in gearboxes from the following chart.

| Yağ Cinsi<br>Lubricant              | ISO<br>Viskozitesi<br>ISO Viscosity | ARAL         | bp               | Esso           | KLOBER<br>LUBRICATION | Mobil                | Shell     | Castrol         | PO<br>Petrol Ofisi |
|-------------------------------------|-------------------------------------|--------------|------------------|----------------|-----------------------|----------------------|-----------|-----------------|--------------------|
| Mineral<br>Yağlar<br>Mineral Oil    | Iso VG 680                          | Degol BG 680 | Energol GR XP680 | Spartan EP 680 | GEM 1 680             | Mobilgear 600 XP 680 | Omala 680 | Alpha SP 680    | Gravis SP 680      |
|                                     | Iso VG 460                          | Degol BG 460 | Energol GR XP460 | Spartan EP 460 | GEM 1 460             | Mobilgear 600 XP 460 | Omala 460 | Alpha SP 460    | Gravis SP 460      |
|                                     | Iso VG 320                          | Degol BG 320 | Energol GR XP320 | Spartan EP 320 | GEM 1 320             | Mobilgear 600 XP 320 | Omala 320 | Alpha SP 320    | Gravis SP 320      |
|                                     | Iso VG 220                          | Degol BG 220 | Energol GR XP220 | Spartan EP 220 | GEM 1 220             | Mobilgear 600 XP 220 | Omala 220 | Alpha SP 220    | Gravis SP 220      |
|                                     | Iso VG 150                          | Degol BG 150 | Energol GR XP150 | Spartan EP 150 | GEM 1 150             | Mobilgear 600 XP 150 | Omala 150 | Alpha SP 150    | Gravis SP 150      |
|                                     | Iso VG 100                          | Degol BG 100 | Energol GR XP100 | Spartan EP 100 | GEM 1 100             | Mobilgear 600 XP 100 | Omala 100 | Alpha SP 100    | Gravis SP 100      |
| Sentetik<br>Yağlar<br>Synthetic Oil | Iso VG 680                          | Degol GS 680 | Energol GR XP680 | -              | Syntheso D 680 EP     | Mobil Glygoyle 680   | -         | -               | Gravis MP 680      |
|                                     | Iso VG 460                          | Degol GS 460 | Energol GR XP460 | Glycolube 460  | Syntheso D 460 EP     | Mobil Glygoyle 460   | Tivela SD | Alphasyn PG 460 | Gravis MP 460      |
|                                     | Iso VG 320                          | Degol GS 320 | Energol GR XP320 | Glycolube 320  | Syntheso D 320 EP     | Mobil Glygoyle 320   | -         | Alphasyn PG 320 | Gravis MP 320      |
|                                     | Iso VG 220                          | Degol GS 220 | Energol GR XP220 | -              | Syntheso D 220 EP     | Mobil Glygoyle 30    | Tivela WB | Alphasyn PG 220 | Gravis MP 220      |
|                                     | Iso VG 150                          | Degol GS 150 | Energol GR XP150 | -              | Syntheso D 150 EP     | -                    | -         | Alphasyn PG 150 | Gravis MP 150      |
|                                     | Iso VG 100                          | -            | Energol GR XP100 | -              | Syntheso D 100 EP     | -                    | -         | -               | Gravis MP 100      |

Yağ sıcaklığına bağlı olarak mineral veya sentetik yağların yandaki tabloda verilen çalışma süreleri sonunda değiştirilmesi gereklidir.

| Yağ Sıcaklığı [°C]<br>Oil Temperature [°C] | Yağ Değiştirme Aralığı [Saat]<br>Oil-Change Interval [Hour] |                               |
|--------------------------------------------|-------------------------------------------------------------|-------------------------------|
|                                            | Mineral Yağ<br>Mineral Oil                                  | Sentetik Yağ<br>Synthetic Oil |
| < 65                                       | 8.000                                                       | 25.000                        |
| 65 - 80                                    | 4.000                                                       | 18.000                        |
| 80 - 95                                    | 2.000                                                       | 12.500                        |
| 95 - 110                                   | -                                                           | 9.000                         |

For the best performance of the gearbox, lubricant (Mineral or Synthetic) must be changed periodically.

**Termal Kapasite / Thermal Capacity**

Nominal Termal Güç ( $P_{TN}$ ) değeri redüktörün 20 °C ortam sıcaklığında, sürekli çalışmada ve giriş devrinin 1400 d/d veya daha küçük olması koşullarında redüktöre uygulanacak giriş gücünü ifade etmektedir. Yukarıda belirtilen koşulların dışındaki durumlarda Termal Güç ( $P_T$ ) çeşitli düzeltme faktörleri ile hesaplanmalıdır.

Rated thermal power ( $P_{TN}$ ) is the maximum power that the gearbox can transmit mechanically under continuous operation in an ambient temperature of 20 °C, without the internal temperature rising to a value that could damage the gearbox components. Thermal power ( $P_T$ ) value is calculate according to the below tables.

$$P_T = P_{TN} \times f_{t1} \times f_{t2} \times f_{t3} \times f_{t4}$$

$P_{TN}$ ,  $f_{t1}$ ,  $f_{t2}$ ,  $f_{t3}$ ,  $f_{t4}$  değerleri aşağıdaki tablolarda tanımlanmıştır.

$P_{TN}$ ,  $f_{t1}$ ,  $f_{t2}$ ,  $f_{t3}$ ,  $f_{t4}$  values are described below.

Hesaplanan değerler ile redüktör giriş gücü ( $P_1$ ), Termal Güç ( $P_T$ ) değerinin altında olmalıdır.

With the calculated values input power ( $P_1$ ) must be lower than the thermal power ( $P_T$ ).

$$P_1 < P_T$$

| Nominal Termal Güç<br>Rated Thermal Power<br>$P_{TN}$<br>[kW] | Kademe Sayısı<br>No. Of Stages | Redüktör Gövde Büyüklüğü<br>Housing Size |      |      |      |      |      |      |      |      |     |     |     |     |
|---------------------------------------------------------------|--------------------------------|------------------------------------------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|
|                                                               |                                | 63                                       | 80   | 100  | 125  | 140  | 160  | 180  | 200  | 225  | 250 | 280 | 320 | 360 |
| Paralel Milli Redüktör<br>Parallel Shaft Gearboxes            | 1                              | 11,8                                     | 18   | 26,3 | 39,4 | 52,5 | 58   | 84   | 95   | 132  | 148 | 210 | 235 | 334 |
|                                                               | 2                              | 7,9                                      | 11,8 | 18   | 26,3 | 29,4 | 39,4 | 45   | 63   | 70   | 99  | 110 | 160 | 180 |
|                                                               | 3                              | -                                        | -    | -    | -    | 22,3 | 29,4 | 33,1 | 47,5 | 52,5 | 74  | 84  | 120 | 135 |
| Konik Helisel Dişli Redüktör<br>Bevel Helical Gearboxes       | 2                              | 7,4                                      | 11,1 | 16,3 | 24,8 | 30,2 | 37,3 | 52,5 | 65   | -    | 96  | 132 | 145 | 210 |
|                                                               | 3                              | -                                        | -    | -    | -    | 22,3 | 29,5 | 33,1 | 47,4 | 52,5 | 74  | 85  | 118 | 132 |

| $f_{t1}$ Giriş Devri Düzeltme Katsayısı / Input Speed Correction Factor |      |
|-------------------------------------------------------------------------|------|
| 1400                                                                    | 1    |
| 1400 ... 1800                                                           | 0,9  |
| 1800 ... 2000                                                           | 0,85 |
| 2000 ... 2250                                                           | 0,8  |
| 2250 ... 2500                                                           | 0,75 |

| $f_{t2}$ Montaj Pozisyonu Düzeltme Katsayısı / Mounting Position Correction Factor |      |
|------------------------------------------------------------------------------------|------|
| M3 - M4                                                                            | 1    |
| M6                                                                                 | 0,85 |
| M5                                                                                 | 0,75 |
| M7 - M8                                                                            | 0,75 |

| $f_{t3}$ Ortam Sıcaklığı - Çalışma Süresi Düzeltme Katsayısı / Ambient Temperature - Cyclic Duration Correction Factor |                                    |                                                                                                 |      |      |      |
|------------------------------------------------------------------------------------------------------------------------|------------------------------------|-------------------------------------------------------------------------------------------------|------|------|------|
| Ortam Sıcaklığı<br>Ambiant Temperature                                                                                 | Sürekli Çalışma<br>Continuous Duty | 60 dakikalık Periyot İçinde Çalışma Oranı (%)<br>Cyclic Duration Factor (%) for 60 min. running |      |      |      |
|                                                                                                                        |                                    | 60                                                                                              | 40   | 25   | 15   |
| 40 °C                                                                                                                  | 0,50                               | 0,60                                                                                            | 0,70 | 0,80 | 0,90 |
| 30 °C                                                                                                                  | 0,75                               | 0,90                                                                                            | 1,00 | 1,20 | 1,30 |
| 20 °C                                                                                                                  | 1,00                               | 1,20                                                                                            | 1,30 | 1,50 | 1,70 |
| 10 °C                                                                                                                  | 1,20                               | 1,30                                                                                            | 1,50 | 1,70 | 2,00 |

| $f_{t4}$ Mekanik Soğutma Düzeltme Katsayısı / Mechanical Cooling |                  |      |      |      |      |
|------------------------------------------------------------------|------------------|------|------|------|------|
| Giriş Devri $n_1$ [d/d]<br>Input Speed [rpm]                     |                  | 700  | 900  | 1100 | 1400 |
| Doğal (Soğutmasız)<br>Natural                                    |                  | 1    |      |      |      |
| Fanlı Soğutma<br>Fan Cooling                                     | 1 Fanlı / 1 Fan  | 1,15 | 1,21 | 1,28 | 1,35 |
|                                                                  | 2 Fanlı / 2 Fans | 1,28 | 1,44 | 1,64 | 1,84 |
| Serpantinli Soğutma<br>Cooling Coil                              |                  | 2    |      |      |      |



## Servis Faktörü / Service Factor

Katalogda verilen moment ve güç değerleri nominal değerler olup; 25.000 saatlik çalışma süresi, düzgün yükleme, 90d/d'dan daha düşük çıkış devri ve saate 2'den az dur-kalk sayısı koşullarına göre belirlenmiştir.

Servis faktörü ( $f_s$ ) değeri, 3 temel çalışma koşuluna bağlıdır.

|                                         |   |       |
|-----------------------------------------|---|-------|
| Redüktörün bir saatteki dur-kalk sayısı | : | $f_d$ |
| Redüktörün çıkış devri                  | : | $f_n$ |
| Redüktör yük sınıfı ve öngörülen ömür   | : | $f_y$ |

Servis faktörü redüktörün çalışma koşullarına bağlı olarak seçilen bu değerlerin çarpılması sonucu elde edilir.

The value given for power and torque are of nominal values which are calculated in conditions where 25.000-hour running time, under uniform loading, output speed less than 90 min<sup>-1</sup> and start/stop frequency less than 2 hours.

The value of service factor  $f_s$  depends on 3 main operational conditions.

|                                               |   |       |
|-----------------------------------------------|---|-------|
| Correction factor as per start/stop frequency | : | $f_d$ |
| Correction factor as per output speed         | : | $f_n$ |
| The loads applied to the gearbox              | : | $f_y$ |

The service factor is obtained by multiplying these 3 factors as per the formula.

$$f_s = f_d \times f_n \times f_y$$

$f_d$  değeri redüktörün bir saatteki dur-kalk sayısı ve yükleme durumu göz önünde bulundurularak belirlenir.

$f_d$  value can be defined in accordance with the start/stop frequency and the loads applied to the gearbox.

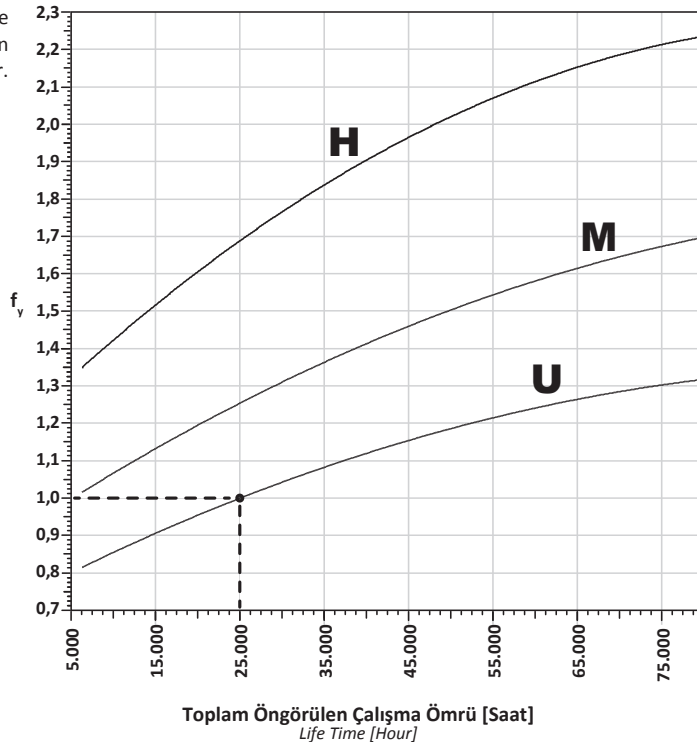
| Yük Sınıfı<br>Load Class | Dur-Kalk sayısı [Saat]<br>Frequency of Starting [Per Hour] |      |      |      |      |      |      |      |
|--------------------------|------------------------------------------------------------|------|------|------|------|------|------|------|
|                          | 2                                                          | 4    | 8    | 16   | 32   | 63   | 125  | 250  |
| U                        | 1                                                          | 1,06 | 1,12 | 1,18 | 1,25 | 1,32 | 1,4  | 1,5  |
| M                        | 1                                                          | 1    | 1,06 | 1,12 | 1,18 | 1,25 | 1,32 | 1,4  |
| H                        | 1                                                          | 1    | 1    | 1,06 | 1,12 | 1,18 | 1,25 | 1,32 |

$f_n$  değeri redüktörün çıkış devri göz önünde bulundurularak belirlenir.

$f_n$  value can be defined in accordance with the output speed of the gearbox.

| Çıkış Devri [d/d]<br>Output Speed [rpm] | $f_n$ |
|-----------------------------------------|-------|
| 560 > n <sub>2</sub> > 355              | 1,25  |
| 355 > n <sub>2</sub> > 224              | 1,18  |
| 224 > n <sub>2</sub> > 140              | 1,12  |
| 140 > n <sub>2</sub> > 90               | 1,06  |
| 90 > n <sub>2</sub> > 0                 | 1     |

$f_y$  değeri yandaki grafik yardımı ile redüktöre uygulanan yükler ve istenen çalışma ömrüne bağlı olarak belirlenir.



$f_y$  value can be defined using the following chart in accordance with the load applied to the gearbox and the life time of the gearbox.

**Uygulamaların Doğal Yüklere Bağlı Olarak Sınıflandırılması**

| <b>Karıştırıcılar ve Mikserler</b>                                  |          |
|---------------------------------------------------------------------|----------|
| Sabit yoğunluklu sıvılar                                            | <b>U</b> |
| Değişken yoğunluklu, katı süspansiyonlu, yüksek viskoziteli sıvılar | <b>M</b> |
| Beton karıştırıcılar, havanlar, flanşlı mikserler                   | <b>H</b> |

| <b>Besleyici ve Yığınlar</b>                |              |
|---------------------------------------------|--------------|
| Döner merdane, döner tabla, döner bölme     | <b>U</b>     |
| Kayıslı, vidalı, tablalı besleyiciler       | <b>U / M</b> |
| Karşılıklı hareketli düzenekler, sarsıcılar | <b>H</b>     |

| <b>Kompresörler</b>                        |          |
|--------------------------------------------|----------|
| Santrifüj (Tek kademeli veya çok kademeli) | <b>U</b> |
| Yelkovanlı, döner loblu, vidalı            | <b>M</b> |
| Eksenel                                    | <b>M</b> |
| Karşılıklı hareketli düzenekler            |          |
| Çok pistonlu                               | <b>M</b> |
| Tek pistonlu                               | <b>H</b> |

| <b>Elevatörler / Asansörler</b>                                                                           |              |
|-----------------------------------------------------------------------------------------------------------|--------------|
| Kayıslı, santrifüj veya serbest düşmeli, vidalı milli (helezonlu) taşıyıcılar, yürüyen merdivenler        | <b>U / M</b> |
| Kovalı elevatörler, kollu ve tepsili elevatörler, çarklı elevatörler, yük kaldırmalar, inşaat asansörleri | <b>M</b>     |
| İnsan asansörleri, mobil iskeleler, personel asansörleri                                                  | <b>U / M</b> |

| <b>Kazıcılar ve Tarayıcılar</b>                                              |          |
|------------------------------------------------------------------------------|----------|
| Kablo makaraları, konveyörler, pompalar, vinçler istifciler, drenaj çarkları | <b>M</b> |
| Kesici kafası tahrik düzenekleri, kovalı veya çarklı ekskavatörler           | <b>H</b> |
| Ray üstü hareketli araçlar                                                   | <b>H</b> |
| Paletli hareketli araçlar                                                    | <b>H</b> |

| <b>Ezici ve Parçalayıcılar</b>     |          |
|------------------------------------|----------|
| Şeker kamışı, kauçuk ve plastikler | <b>M</b> |
| Mineraller, taş/kaya               | <b>H</b> |

| <b>Köprülü Vinçler, Vinçler ve Hareketli Kaldırıcılar</b> |              |
|-----------------------------------------------------------|--------------|
| Gezer köprülü vinçler, yük arabaları ve forkliftler       | <b>M</b>     |
| Döner vinçler                                             | <b>M</b>     |
| Kaldırma                                                  | <b>U / M</b> |

| <b>Gıda Endüstrisi</b>                                                                                                                                                                                                                                 |          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| Tahıl ve malt pişiriciler, lapa tekneleri                                                                                                                                                                                                              | <b>U</b> |
| Doğrayıcılar, hamur karıştırıcılar, et öğütücüler, pancar doğrayıcılar, santrifüjler, şarap yapım fabrikaları, şişe-kap-kasa yıkayıcılar, sulu temizleyiciler, doldurucular, mantarla kaplayıcılar, ekstruderler, kasa doldurma ve boşaltma gereçleri. | <b>M</b> |

**Classification of Nature of Load According to Applications**

| <b>Stirres and Mixers</b>                                       |          |
|-----------------------------------------------------------------|----------|
| Constant density liquids                                        | <b>U</b> |
| Varying density, solid in suspension and high viscosity liquids | <b>M</b> |
| Concrete mixers, mullers and flash mixers                       | <b>H</b> |

| <b>Feeders and Batches</b>        |              |
|-----------------------------------|--------------|
| Rotary (roller, table and sector) | <b>U</b>     |
| Belt, screw and plate             | <b>U / M</b> |
| Reciprocating and vibrator        | <b>H</b>     |

| <b>Compressors</b>                        |          |
|-------------------------------------------|----------|
| Centrifugal (Single-stage or multi-stage) | <b>U</b> |
| Rotary (Vane, lobe and screw)             | <b>M</b> |
| Axial                                     | <b>M</b> |
| Reciprocating                             |          |
| Multi-cylinder                            | <b>M</b> |
| Single-cylinder                           | <b>H</b> |

| <b>Elevators</b>                                                                                            |              |
|-------------------------------------------------------------------------------------------------------------|--------------|
| Belt, centrifugal or gravity discharge, screw jacks, escalators bucket, arm and tray elevators paddle wheel | <b>U / M</b> |
| Hoist, skips man lifts and mobile scaffolding                                                               | <b>M</b>     |
| Passenger Transport                                                                                         | <b>U / M</b> |

| <b>Excavators and Dredges</b>                                                    |          |
|----------------------------------------------------------------------------------|----------|
| Cable reels, conveyors, pumps winches, stackers and draining wheels              | <b>M</b> |
| Cutter head drives, cutters, excavators (bucket ladder, paddle wheel and cutter) | <b>H</b> |
| On the rail vehicles                                                             | <b>H</b> |
| Crawler vehicles                                                                 | <b>H</b> |

| <b>Crushers and Granulators</b> |          |
|---------------------------------|----------|
| Sugar cane, rubber and plastics | <b>M</b> |
| Minerals and stone              | <b>H</b> |

| <b>Cranes, Winches, Travelling Lifts</b> |              |
|------------------------------------------|--------------|
| Travel (Bridge, trolley and forks)       | <b>M</b>     |
| Slewing                                  | <b>M</b>     |
| Hoisting                                 | <b>U / M</b> |

| <b>Food Industry</b>                                                                                                                                                                     |          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| Cookers (Cereals and malt), mash tubs                                                                                                                                                    | <b>U</b> |
| Slicers, dough mixers, meat grinders, beet, slicers, centrifuges, peelers, winemaking plant, bottle/bin/cratewashers, rinsers, gillers, corks, cappers, extruders, crate filling and emp | <b>M</b> |





## ■ Servis Faktörü / Service Factor

### Kağıt ve Selüloz Endüstrisi

|                                                                                                                                                                           |          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| Zemberekler, emme mardaneleri, kurutucular, kabartma makinaları, ağartıcılar, baskı silindirleri, kaplama silindirleri, kağıt silindirleri, çırpıcılar ve kağıt hamurları | <b>U</b> |
| Çalkalayıcılar, karıştırıcılar, ekstruderler, talaş beslemeleri, kalenderler, keçe kurutucular ve gericiler, üstüplü taşlamalar, yıkayıcılar, kalınlaştırıcılar           | <b>M</b> |
| Kesiciler, talaşlayıcılar, süper kalenderler, keçe dövücüler, sırlama makinaları, presler                                                                                 | <b>H</b> |

### Kereste ve Ağaç İşleme Endüstrisi

|                                                                                                                                          |              |
|------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| Mekanik yükleyiciler, palet istifleyiciler                                                                                               | <b>U / M</b> |
| Sunta, talaş ve diğer artık konveyörler                                                                                                  | <b>M</b>     |
| Tomruklar konveyörler                                                                                                                    | <b>H</b>     |
| Planyalama, kesme, çapraz veya tekrar kesme, zıvanalama, pahlama, kalıplama kumlama, boyutlandırma ve benzerleri için konveyör takımları | <b>H</b>     |

### Besleme Sürücüler

|                              |              |
|------------------------------|--------------|
| Kesme sürücüler              | <b>M / H</b> |
| Mekanik ve hidrolik kabuklar | <b>M</b>     |
| Tambur kabuklar              | <b>H</b>     |

### Yağ Endüstrisi

|                                            |          |
|--------------------------------------------|----------|
| Parafin filtre presleri, soğutucular       | <b>M</b> |
| Döner delici gereçler, pompalama gereçleri | <b>H</b> |

### Tekstil Endüstrisi

|                                                                                                                                                                                                                               |          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| Kurutucular, havlayıcılar, eğiriciler, yan kesikler, sabunlayıcılar, yıkayıcılar, parçalayıcılar, dokuma tezgahları, eğrilme tezgahları, sarıcılar, örme makineleri, boyama makineleri, bükücüler, şardonlayıcılar, kesiciler | <b>M</b> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|

### Toprak İş Makineleri

|                                                             |          |
|-------------------------------------------------------------|----------|
| Baskı burunlu değirmenler, ekstruderler, döner incelticiler | <b>M</b> |
| Tuğla ve kiremit presleri                                   | <b>H</b> |

### Kauçuk ve Plastik Endüstrisi

|                      |          |
|----------------------|----------|
| Plastik ekstruderler | <b>M</b> |
| Kauçuk ekstruderler  | <b>H</b> |

### Ambalaj ve İstifleme Makineleri

|                                                        |          |
|--------------------------------------------------------|----------|
| Ambalaj (film, karton), ciltleme, etiketleme gereçleri | <b>U</b> |
| İstifleme ve boşaltma makineleri                       | <b>M</b> |

### Mühendislik Makine Takımları

|                                                                  |          |
|------------------------------------------------------------------|----------|
| Deliciler, biçimlendiriciler, frezeleyiciler, dişli açma vb.     | <b>M</b> |
| Ana Sürücüler (kesme ve besleme)                                 | <b>M</b> |
| Yardımcı sürücüler (takım magazinleri, içten malzeme beslemeler) | <b>U</b> |

### Paper and Pulp Industries

|                                                                                                                              |          |
|------------------------------------------------------------------------------------------------------------------------------|----------|
| Winders, suction rolls, dryers, embossing machinery, bleachers, press rolls, coating rolls, paper rolls, beaters and pulpers | <b>U</b> |
| Agitators, mixers, extruders, chip feeders, calenders, felt dryers and stretchers, rag grinders, washers, thickeners         | <b>M</b> |
| Cutters, chippers, calenders (super), felt whippers, glazing machines, presses                                               | <b>H</b> |

### Lumber and Woodworking Industries

|                                                                                                                                   |              |
|-----------------------------------------------------------------------------------------------------------------------------------|--------------|
| Mechanical loaders, pallet stackers                                                                                               | <b>U / M</b> |
| Board, chip and waste conveyors                                                                                                   | <b>M</b>     |
| Log conveyors                                                                                                                     | <b>H</b>     |
| Machine tools used for (planing, cutting, cross-cut and re-sawing, tenoning, bevelling, moulding, sanding, sizing machinery etc.) | <b>H</b>     |

### Feeding Drives

|                                 |              |
|---------------------------------|--------------|
| Cutter drives                   | <b>M / H</b> |
| Mechanical and hydraulic Bakers | <b>M</b>     |
| Drum                            | <b>H</b>     |

### Oil Industry

|                                              |          |
|----------------------------------------------|----------|
| Paraffin filter presses, chillers            | <b>M</b> |
| Rotary drilling equipment, pumping equipment | <b>H</b> |

### Textile Industry

|                                                                                                                                                                           |          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| Dryers, nappers, spinners, slashers, soapers, washers, mangles, looms, warping machines, winders, knitting machines, dyeing machines, twisting frames, gig mills, cutters | <b>M</b> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|

### Clay Working Machinery

|                                        |          |
|----------------------------------------|----------|
| Pug mills, extruders, rotary deslimers | <b>M</b> |
| Brick and tile presses                 | <b>H</b> |

### Rubber and Plastic Industry

|                   |          |
|-------------------|----------|
| Plastic extruders | <b>U</b> |
| Rubber extruders  | <b>M</b> |

### Wrapping and Stacking Machinery

|                                                          |          |
|----------------------------------------------------------|----------|
| Wrapping (film, cardboard), binding, labelling equipment | <b>M</b> |
| Stacking / Unstacking machinery                          | <b>H</b> |

### Engineering Machine Tools

|                                                     |          |
|-----------------------------------------------------|----------|
| Boring, shaping, planing, gear cutting etc.         | <b>M</b> |
| Main drives (cut and feed)                          | <b>M</b> |
| Auxiliary drives (tools magazine, workpiece infeed) | <b>U</b> |

**Düzenekler**

|                                                       |          |
|-------------------------------------------------------|----------|
| Endeksleyiciler, kranklar, Malta haçlı endesleyiciler | <b>M</b> |
| Rot ve krank, CAM kontrol                             | <b>H</b> |

**Metal Endüstrisi**

|                                                                                                                                                            |          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| Trimleyici, uç kesiciler, astar makasları                                                                                                                  | <b>M</b> |
| Yassı pleyt, külçe ve kütük makaslar                                                                                                                       | <b>H</b> |
| Çapraz tahrik medan, çekme banko, sargı, çekme halat, yassılaştırma merdan, bükme silindir makasları                                                       | <b>M</b> |
| İticiler, tufal kazıyıcı, boru kaynatıcı, sıralı değirmen merdanesi, tahrik sistem, dövme çekiç, paç presler, kılavuzlama makine, doğrultma pres makasları | <b>H</b> |

**Pompalar**

|                                                                   |              |
|-------------------------------------------------------------------|--------------|
| Döner dişli, döner vidalı, yelkovanlı ve eksenel                  | <b>U / M</b> |
| Sıvı, sabit yoğunluklu santrifujlar                               | <b>U</b>     |
| Sıvılar, değişken yoğunluklu veya yüksek viskoziteli santrifujlar | <b>M</b>     |
| Oransal santrifujlar                                              | <b>M</b>     |
| İleri geri çalışan tek hareketli / çift hareketli                 | <b>M</b>     |
| İleri geri çalışan tek hareketli / çift hareketli tek silindirli  | <b>H</b>     |

**Döner Tamburlar**

|                                                            |          |
|------------------------------------------------------------|----------|
| Kurutucular, soğutucular, döner ocaklar, yıkama makineleri | <b>M</b> |
| Tamburlar, çimento değirmenleri                            | <b>H</b> |

**Konveyörler**

|                                                                                  |          |
|----------------------------------------------------------------------------------|----------|
| İyi kalite gevşek malzemeli bantlı (plastik, kauçuk metal)                       | <b>U</b> |
| Kaba kalite gevşek malzeme veya farklı madde bantlı (plastik, kauçuk metal)      | <b>M</b> |
| Bant, kova, ahşap, tepsi, silindirler, vida, zincir                              | <b>M</b> |
| Yer seviyesinde zincirli çekme, akış biriktirmeli bantlı (plastik, kauçuk metal) | <b>M</b> |
| Karşılıklı tahrik düzenekli, sarsıcı bantlılar (plastik, kauçuk metal)           | <b>H</b> |

**Pissu İşleme**

|                                                              |          |
|--------------------------------------------------------------|----------|
| Biyolojik tanklar (döner disk)                               | <b>U</b> |
| Kollektörler, döner perdeler, incelticiler, vakum filtreleri | <b>M</b> |
| Havalandırıcılar, döner kırıcılar                            | <b>H</b> |

**Elek ve Kalburlar**

|                                    |          |
|------------------------------------|----------|
| Hava yıkama                        | <b>U</b> |
| Döner taş, çakıl ve tahıl elekleri | <b>M</b> |
| Titreşimli elekler, kalburlar      | <b>H</b> |

**Fanlar**

|                                                                                      |          |
|--------------------------------------------------------------------------------------|----------|
| Küçük çaplı (santrifüj, eksenel-akış)                                                | <b>U</b> |
| Geniş çaplı (madenler, ocaklar vb.) soğutma kuleleri, havalandırma kanalları, piston | <b>M</b> |

**Mechanisms**

|                                                    |          |
|----------------------------------------------------|----------|
| Indexing, crank and slotted link and Maltese cross | <b>M</b> |
| Rod and crank, CAM control                         | <b>H</b> |

**Metal Industry**

|                                                                                                                                                                                      |          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| Trimming, cropping and facing shears                                                                                                                                                 | <b>M</b> |
| For sheet / plate, ingot and billet shears                                                                                                                                           | <b>H</b> |
| Transverse drive roller, draw bench, coiler, inverter, dragline, flattening roll and bending roll shears                                                                             | <b>M</b> |
| Pusher, descaling equipment, pipe welder, mill roll train drive, rolling mill, forging presses, billet cropper, power hammer, punche, tapping machine and straightening press shears | <b>H</b> |

**Pumps**

|                                                         |              |
|---------------------------------------------------------|--------------|
| Rotary (gear, screw, vane) and axial                    | <b>U / M</b> |
| Liquid and constant density centrifugals                | <b>U</b>     |
| Liquid, variable density or high viscosity centrifugals | <b>M</b>     |
| Proportioning centrifugals                              | <b>M</b>     |
| Single / double acting reciprocating                    | <b>M</b>     |
| Single / double acting single cylinder reciprocating    | <b>H</b>     |

**Rotating Drums**

|                                                     |          |
|-----------------------------------------------------|----------|
| Dryers, chillers, rotary kilns and washing machines | <b>M</b> |
| Tumblers and cement kilns                           | <b>H</b> |

**Conveyors**

|                                                                                 |          |
|---------------------------------------------------------------------------------|----------|
| Fine grade loose material belts (plastic, rubber and metal)                     | <b>U</b> |
| Coarse grade loose material or discrete item belts (plastic, rubber and metal)  | <b>M</b> |
| Belt, bucket, slat, tray, roller, screw and chain                               | <b>M</b> |
| Drag ground level chain and flow accumulating belts (plastic, rubber and metal) | <b>M</b> |
| Reciprocating, shaker belts (plastic, rubber and metal)                         | <b>H</b> |

**Sewage Treatment**

|                                                           |          |
|-----------------------------------------------------------|----------|
| Biological tanks (revolving disk)                         | <b>U</b> |
| Collectors, rotary screens, thickeners and vacuum filters | <b>M</b> |
| Aerators and rotary breakers                              | <b>H</b> |

**Screen and Riddles**

|                                    |          |
|------------------------------------|----------|
| Air washing                        | <b>U</b> |
| Rotary (stone, gravel and cereals) | <b>M</b> |
| Vibrating screens and riddles      | <b>H</b> |

**Fans**

|                                                                         |          |
|-------------------------------------------------------------------------|----------|
| Small diameter (centrifugal and axial-flow)                             | <b>U</b> |
| Large diameter (mines, furnaces etc.) cooling towers, ducted and piston | <b>M</b> |



## ■ Radyal ve Eksenel Yükler / Radial and Axial Loads

Redüktör giriş milinde ve çıkış milinde izin verilebilir maksimum radyal yük değerleri devam eden tablolarda görülebilir.

Tablolarda yer alan değerler yükün en kötü açıda ve milin ortasından etki etmesi durumunda geçerlidir. Yükün uygulama noktasına bağlı olarak farklı radyal yük değerleri oluşabilir. Bu değerler için **ZET Redüktör**'e danışınız.

Kullanılacak aktarma elemanına bağlı olarak mil üzerinde oluşacak radyal yük değeri aşağıdaki formül yardımı ile hesaplanabilir.

The permissible radial loads on the input shaft and output shaft are calculated and listed on the following tables.

The listed permissible radial loads are based on the worst loading direction to the midpoint of the shaft. Various loads can be applied of different loading direction. For these values please ask **ZET Redüktör**.

Radial Loads can calculate according to the transmission component with the formula below.

$$F_r = \frac{M \times 2000}{d} \times f_r \text{ [N]}$$

**F<sub>r</sub> [N]** : Radyal Yük  
**M [Nm]** : Moment  
**d [mm]** : Aktarma Elemanı Çapı  
**f<sub>r</sub>** : Radyal Yük Düzeltme Katsayısı  
**f<sub>r</sub>** değeri aşağıdaki tablo ile belirlenir.

**F<sub>r</sub> [N]** : Radial Load  
**M [Nm]** : Torque  
**d [mm]** : Main Diameter of Transmission Component  
**f<sub>r</sub>** : Correction Factor for Radial Load  
**f<sub>r</sub>** value can calculate according to the below table.

| Güç Aktarma Elemanı<br>Transmission Component                 | Açıklama<br>Information                               | f <sub>r</sub> |
|---------------------------------------------------------------|-------------------------------------------------------|----------------|
| Dışlı<br>Spur Gear                                            | -                                                     | 1,15           |
| Zincir Dışlı<br>Chain Drive                                   | z<13                                                  | 1,40           |
| Zincir Dışlı<br>Chain Drive                                   | z<20                                                  | 1,25           |
| V Kayış<br>V Belt                                             | Uygun Gerdirme Kuvvetinde<br>Acceptable tensile force | 1,75           |
| Gerdirme Makaralı Düz Kayış<br>Flat Belt with spanning Pulley | Uygun Gerdirme Kuvvetinde<br>Acceptable tensile force | 2,50           |
| Triger Kayış<br>Trigger Belt                                  | Uygun Gerdirme Kuvvetinde<br>Acceptable tensile force | 1,50           |

Giriş milinde ve çıkış milinde izin verilebilir maksimum eksenel yük değeri izin verilebilir radyal yük değerinin 0,2 katıdır.

Permissible axial load on the input shaft and output shaft is 0,2 times of the radial load.

**Radial ve Eksenel Yükler / Radial and Axial Loads****Giriş Milinde İzin Verilebilen Radyal Yük Değerleri**

Giriş milinde izin verilebilen maksimum radyal yük değerleri **Fr<sub>1</sub> [N]**, Redüktör giriş devrine ve gövde büyüklüğüne göre devam eden tablolarda belirlenmiştir.

**Permissible Radial Loads on the Input Shaft**

Permissible radial loads on the input shaft **Fr<sub>1</sub> [N]**, described according to the input speed and series of gear unit with the following tables.

| Giriş Devri [d/d]<br>Input Speed [rpm] | HE 1063 | HE 1080 | HE 1100 | HE 1125 | HE 1140 | HE 1160 | HE 1180 | HE 1200 | HE 1225 | HE 1250 | HE 1280 | HE 1320 | HE 1360 |
|----------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1750                                   | 740     | 1170    | 1900    | 3000    | 3000    | 4760    | 4760    | 7630    | 7630    | 11800   | 11800   | 19000   | 19000   |
| 1400                                   | 820     | 1300    | 2100    | 3300    | 3300    | 5300    | 5300    | 8500    | 8500    | 13200   | 13200   | 21200   | 21200   |
| 900                                    | 900     | 1430    | 2300    | 3600    | 3600    | 5840    | 5840    | 9370    | 9370    | 14600   | 14600   | 23400   | 23400   |

| Giriş Devri [d/d]<br>Input Speed [rpm] | HE 2063 | HE 2080 | HE 2100 | HE 2125 | HE 2140 | HE 2160 | HE 2180 | HE 2200 | HE 2225 | HE 2250 | HE 2280 | HE 2320 | HE 2360 |
|----------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1750                                   | 490     | 720     | 1170    | 1900    | 1880    | 2980    | 2980    | 4760    | 4760    | 7630    | 7630    | 11800   | 11800   |
| 1400                                   | 550     | 800     | 1300    | 2100    | 2100    | 3320    | 3320    | 5300    | 5300    | 8500    | 8500    | 13200   | 13200   |
| 900                                    | 610     | 880     | 1430    | 2300    | 2320    | 3660    | 3660    | 5840    | 5840    | 9370    | 9370    | 14600   | 14600   |

| Giriş Devri [d/d]<br>Input Speed [rpm] | HE 3140 | HE 3160 | HE 3180 | HE 3200 | HE 3225 | HE 3250 | HE 3280 | HE 3320 | HE 3360 |
|----------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1750                                   | 1170    | 1900    | 1900    | 2870    | 2870    | 4760    | 4760    | 7600    | 7630    |
| 1400                                   | 1300    | 2120    | 2120    | 3200    | 3200    | 5300    | 5300    | 8500    | 8500    |
| 900                                    | 1430    | 2340    | 2340    | 3530    | 3530    | 5840    | 5840    | 9400    | 9370    |

| Giriş Devri [d/d]<br>Input Speed [rpm] | KH 2063 | KH 2080 | KH 2100 | KH 2125 | KH 2140 | KH 2160 | KH 2180 | KH 2200 | KH 2250 | KH 2280 | KH 2320 | KH 2360 |
|----------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1750                                   | 490     | 740     | 1180    | 1900    | 1880    | 2980    | 2980    | 4760    | 7630    | 7630    | 11800   | 11800   |
| 1400                                   | 550     | 820     | 1320    | 2100    | 2100    | 3320    | 3320    | 5300    | 8500    | 8500    | 13200   | 13200   |
| 900                                    | 610     | 900     | 1460    | 2300    | 2320    | 3660    | 3660    | 5840    | 9370    | 9370    | 14600   | 14600   |

| Giriş Devri [d/d]<br>Input Speed [rpm] | KH 3140 | KH 3160 | KH 3180 | KH 3200 | KH 3225 | KH 3250 | KH 3280 | KH 3320 | KH 3360 |
|----------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1750                                   | 1170    | 1900    | 1900    | 2870    | 2870    | 4760    | 4760    | 7600    | 7600    |
| 1400                                   | 1300    | 2120    | 2120    | 3200    | 3200    | 5300    | 5300    | 8500    | 8500    |
| 900                                    | 1430    | 2340    | 2340    | 3530    | 3530    | 5840    | 5840    | 9400    | 9400    |



## ■ Radyal ve Eksenel Yükler / Radial and Axial Loads

### Çıkış Milinde İzin Verilebilen Maksimum Radyal Yük Değerleri

Çıkış Milinde izin verilebilir maksimum radyal yük değeri (**Fr<sub>2</sub>**) [**N**] istenen rulman ömrü [saat] , çıkış devri (**n<sub>2</sub>**) [**d/d**], ve redüktör çıkış momenti (**M<sub>2</sub>**) [**Nm**] değerleri göz önünde bulundurularak devam eden tablolardan belirlenir.

### Permissible Radial Loads on the Output Shaft

Permissible radial loads on the output shaft (**Fr<sub>2</sub>**) [**N**] described according to the required service life [Hour], output speed (**n<sub>2</sub>**) [**rpm**] and output torque (**M<sub>2</sub>**) [**Nm**] with the following tables.

| Çıkış Devri [d/d]<br>Output Speed [rpm]<br>x<br>Rulman Ömrü [saat]<br>Bearing Service Life [Hour] | Gövde Ebatı<br>Housing Size |                        |                        |                        |                        |                        |                        |                        |                        |                        |                        |                        |
|---------------------------------------------------------------------------------------------------|-----------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
|                                                                                                   | 063                         |                        | 080                    |                        | 100                    |                        | 125                    |                        | 140                    |                        | 160                    |                        |
|                                                                                                   | M <sub>2</sub><br>[Nm]      | Fr <sub>2</sub><br>[N] | M <sub>2</sub><br>[Nm] | Fr <sub>2</sub><br>[N] | M <sub>2</sub><br>[Nm] | Fr <sub>2</sub><br>[N] | M <sub>2</sub><br>[Nm] | Fr <sub>2</sub><br>[N] | M <sub>2</sub><br>[Nm] | Fr <sub>2</sub><br>[N] | M <sub>2</sub><br>[Nm] | Fr <sub>2</sub><br>[N] |
| 350.000                                                                                           | 300                         | 5000                   | 600                    | 8000                   | 1250                   | 12500                  | 2500                   | 20000                  | 3750                   | 28000                  | 5500                   | 30000                  |
|                                                                                                   | 225                         | 5000                   | 450                    | 8000                   | 900                    | 12500                  | 1750                   | 20000                  | 2750                   | 28000                  | 4000                   | 35500                  |
| 450.000                                                                                           | 300                         | 5000                   | 600                    | 8000                   | 1250                   | 11800                  | 2500                   | 20000                  | 3750                   | 28000                  | 5500                   | 26500                  |
|                                                                                                   | 225                         | 5000                   | 450                    | 8000                   | 900                    | 12500                  | 1750                   | 20000                  | 2750                   | 28000                  | 4000                   | 33500                  |
| 550.000                                                                                           | 300                         | 5000                   | 600                    | 8000                   | 1250                   | 10600                  | 2500                   | 20000                  | 3750                   | 28000                  | 5500                   | 23600                  |
|                                                                                                   | 225                         | 5000                   | 450                    | 8000                   | 900                    | 12500                  | 1750                   | 20000                  | 2750                   | 28000                  | 4000                   | 30000                  |
| 700.000                                                                                           | 300                         | 5000                   | 600                    | 8000                   | 1250                   | 9500                   | 2500                   | 20000                  | 3750                   | 28000                  | 5500                   | 20000                  |
|                                                                                                   | 225                         | 5000                   | 450                    | 8000                   | 900                    | 11800                  | 1750                   | 20000                  | 2750                   | 28000                  | 4000                   | 26500                  |
|                                                                                                   | 160                         | 5000                   | 300                    | 8000                   | 600                    | 12500                  | 1250                   | 20000                  | 2000                   | 28000                  | 2750                   | 28000                  |
| 900.000                                                                                           | 300                         | 5000                   | 600                    | 8000                   | 1250                   | 8000                   | 2500                   | 19000                  | 3750                   | 25000                  | 5500                   | 17000                  |
|                                                                                                   | 225                         | 5000                   | 450                    | 8000                   | 900                    | 10600                  | 1750                   | 20000                  | 2750                   | 28000                  | 4000                   | 23600                  |
|                                                                                                   | 160                         | 5000                   | 300                    | 8000                   | 600                    | 11800                  | 1250                   | 20000                  | 2000                   | 28000                  | 2750                   | 26500                  |
| 1.100.000                                                                                         | 300                         | 5000                   | 600                    | 8000                   | 1250                   | 7100                   | 2500                   | 17000                  | 2750                   | 26500                  | 4000                   | 21200                  |
|                                                                                                   | 225                         | 5000                   | 450                    | 8000                   | 900                    | 9500                   | 1750                   | 20000                  | 2000                   | 26500                  | 2750                   | 25000                  |
| 1.400.000                                                                                         | 225                         | 5000                   | 450                    | 8000                   | 900                    | 8500                   | 1750                   | 18000                  | 2750                   | 23600                  | 4000                   | 19000                  |
|                                                                                                   | 160                         | 5000                   | 300                    | 8000                   | 600                    | 10600                  | 1250                   | 20000                  | 2000                   | 25000                  | 2750                   | 22500                  |
| 1.800.000                                                                                         | 225                         | 5000                   | 450                    | 8000                   | 900                    | 7500                   | 1750                   | 16000                  | 2750                   | 21200                  | 4000                   | 17000                  |
|                                                                                                   | 160                         | 5000                   | 300                    | 8000                   | 600                    | 9500                   | 1250                   | 19000                  | 2000                   | 23600                  | 2750                   | 21200                  |
| 2.250.000                                                                                         | 225                         | 5000                   | 450                    | 7500                   | 900                    | 6700                   | 1750                   | 15000                  | 2000                   | 22500                  | 2750                   | 19000                  |
|                                                                                                   | 160                         | 5000                   | 300                    | 7500                   | 600                    | 8500                   | 1250                   | 17000                  | 1250                   | 22500                  | 2000                   | 20000                  |
| 2.750.000                                                                                         | 160                         | 4750                   | 300                    | 7500                   | 600                    | 7500                   | 1250                   | 16000                  | 2000                   | 20000                  | 2750                   | 17000                  |
|                                                                                                   | 120                         | 5000                   | 225                    | 7500                   | 450                    | 8500                   | 900                    | 16000                  | 1250                   | 20000                  | 2000                   | 19000                  |
| 3.500.000                                                                                         | 160                         | 4500                   | 300                    | 6700                   | 600                    | 6700                   | 1250                   | 14000                  | 2000                   | 19000                  | 2750                   | 15000                  |
|                                                                                                   | 120                         | 4500                   | 225                    | 6700                   | 450                    | 8000                   | 900                    | 15000                  | 1250                   | 19000                  | 2000                   | 18000                  |
| 4.500.000                                                                                         | 160                         | 4000                   | 300                    | 6300                   | 600                    | 6000                   | 1250                   | 13200                  | 2000                   | 17000                  | 2750                   | 13200                  |
|                                                                                                   | 120                         | 4250                   | 225                    | 6300                   | 450                    | 7100                   | 900                    | 14000                  | 1250                   | 18000                  | 2000                   | 16000                  |
| 6.000.000                                                                                         | 160                         | 3750                   | 300                    | 5600                   | 600                    | 5300                   | 1250                   | 11800                  | 2000                   | 15000                  | 2750                   | 11800                  |
|                                                                                                   | 120                         | 4000                   | 225                    | 5600                   | 450                    | 6700                   | 900                    | 13200                  | 1250                   | 17000                  | 2000                   | 15000                  |





**Radyal ve Eksenel Yükler / Radial and Axial Loads**

| <b>Çıkış Devri [d/d]</b><br><i>Output Speed [rpm]</i><br><b>x</b><br><b>Rulman Ömrü [saat]</b><br><i>Bearing Service Life [Hour]</i> | <b>Gövde Ebatı</b><br><i>Housing Size</i> |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |
|--------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
|                                                                                                                                      | 160                                       |                              | 180                          |                              | 200                          |                              | 225                          |                              | 320                          |                              | 360                          |                              |
|                                                                                                                                      | <b>M<sub>2</sub></b><br>[Nm]              | <b>Fr<sub>2</sub></b><br>[N] | <b>M<sub>2</sub></b><br>[Nm] | <b>Fr<sub>2</sub></b><br>[N] | <b>M<sub>2</sub></b><br>[Nm] | <b>Fr<sub>2</sub></b><br>[N] | <b>M<sub>2</sub></b><br>[Nm] | <b>Fr<sub>2</sub></b><br>[N] | <b>M<sub>2</sub></b><br>[Nm] | <b>Fr<sub>2</sub></b><br>[N] | <b>M<sub>2</sub></b><br>[Nm] | <b>Fr<sub>2</sub></b><br>[N] |
| 350.000                                                                                                                              | 8000                                      | 42500                        | 11000                        | 56000                        | 16000                        | 71000                        | 31500                        | 112000                       | 45000                        | 140000                       | 63000                        | 180000                       |
|                                                                                                                                      | 5500                                      | 45000                        | 8000                         | 56000                        | 11000                        | 71000                        | 22500                        | 112000                       | 31500                        | 140000                       | 45000                        | 180000                       |
| 450.000                                                                                                                              | 8000                                      | 40000                        | 11000                        | 56000                        | 16000                        | 71000                        | 31500                        | 112000                       | 45000                        | 140000                       | 63000                        | 180000                       |
|                                                                                                                                      | 5500                                      | 45000                        | 8000                         | 56000                        | 11000                        | 71000                        | 22500                        | 112000                       | 31500                        | 140000                       | 45000                        | 180000                       |
| 550.000                                                                                                                              | 8000                                      | 35500                        | 11000                        | 50000                        | 16000                        | 71000                        | 31500                        | 100000                       | 45000                        | 140000                       | 63000                        | 180000                       |
|                                                                                                                                      | 5500                                      | 42500                        | 8000                         | 56000                        | 11000                        | 71000                        | 22500                        | 112000                       | 31500                        | 140000                       | 45000                        | 180000                       |
| 700.000                                                                                                                              | 8000                                      | 30000                        | 11000                        | 45000                        | 16000                        | 67000                        | 31500                        | 90000                        | 45000                        | 125000                       | 63000                        | 180000                       |
|                                                                                                                                      | 5500                                      | 37500                        | 8000                         | 53000                        | 11000                        | 71000                        | 22500                        | 106000                       | 31500                        | 140000                       | 45000                        | 180000                       |
|                                                                                                                                      | 4000                                      | 40000                        | 5500                         | 53000                        | 8000                         | 71000                        | 16000                        | 112000                       | 22500                        | 140000                       | 31500                        | 180000                       |
| 900.000                                                                                                                              | 8000                                      | 26500                        | 11000                        | 40000                        | 16000                        | 60000                        | 31500                        | 75000                        | 45000                        | 112000                       | 63000                        | 160000                       |
|                                                                                                                                      | 5500                                      | 33500                        | 8000                         | 47500                        | 11000                        | 71000                        | 22500                        | 100000                       | 31500                        | 132000                       | 45000                        | 180000                       |
|                                                                                                                                      | 4000                                      | 37500                        | 5500                         | 50000                        | 8000                         | 71000                        | 16000                        | 100000                       | 22500                        | 132000                       | 31500                        | 180000                       |
| 1.100.000                                                                                                                            | 5500                                      | 31500                        | 8000                         | 45000                        | 11000                        | 63000                        | 22500                        | 90000                        | 31500                        | 125000                       | 45000                        | 170000                       |
|                                                                                                                                      | 4000                                      | 35500                        | 5500                         | 47500                        | 8000                         | 67000                        | 16000                        | 95000                        | 22500                        | 125000                       | 31500                        | 170000                       |
| 1.400.000                                                                                                                            | 5500                                      | 28000                        | 8000                         | 40000                        | 11000                        | 56000                        | 22500                        | 80000                        | 31500                        | 112000                       | 45000                        | 160000                       |
|                                                                                                                                      | 4000                                      | 33500                        | 5500                         | 45000                        | 8000                         | 63000                        | 16000                        | 85000                        | 22500                        | 118000                       | 31500                        | 160000                       |
| 1.800.000                                                                                                                            | 5500                                      | 25000                        | 8000                         | 35000                        | 11000                        | 53000                        | 22500                        | 71000                        | 31500                        | 100000                       | 45000                        | 140000                       |
|                                                                                                                                      | 4000                                      | 30000                        | 5500                         | 42500                        | 8000                         | 60000                        | 16000                        | 85000                        | 22500                        | 112000                       | 31500                        | 150000                       |
| 2.250.000                                                                                                                            | 4000                                      | 26500                        | 5500                         | 37500                        | 8000                         | 56000                        | 16000                        | 75000                        | 22500                        | 106000                       | 31500                        | 140000                       |
|                                                                                                                                      | 2750                                      | 28000                        | 4000                         | 37500                        | 5500                         | 56000                        | 11000                        | 75000                        | 16000                        | 106000                       | 22500                        | 140000                       |
| 2.750.000                                                                                                                            | 4000                                      | 25000                        | 5500                         | 33500                        | 8000                         | 50000                        | 16000                        | 67000                        | 22500                        | 95000                        | 31500                        | 132000                       |
|                                                                                                                                      | 2750                                      | 26500                        | 4000                         | 35500                        | 5500                         | 50000                        | 11000                        | 71000                        | 16000                        | 95000                        | 22500                        | 132000                       |
| 3.500.000                                                                                                                            | 4000                                      | 22500                        | 5500                         | 31500                        | 8000                         | 45000                        | 16000                        | 63000                        | 22500                        | 85000                        | 31500                        | 125000                       |
|                                                                                                                                      | 2750                                      | 25000                        | 4000                         | 33500                        | 5500                         | 47500                        | 11000                        | 67000                        | 16000                        | 90000                        | 22500                        | 125000                       |
| 4.500.000                                                                                                                            | 4000                                      | 20000                        | 5500                         | 28000                        | 8000                         | 42500                        | 16000                        | 56000                        | 22500                        | 75000                        | 31500                        | 112000                       |
|                                                                                                                                      | 2750                                      | 23600                        | 4000                         | 31500                        | 5500                         | 45000                        | 11000                        | 63000                        | 16000                        | 85000                        | 22500                        | 112000                       |
| 6.000.000                                                                                                                            | 4000                                      | 17000                        | 5500                         | 25000                        | 8000                         | 37500                        | 16000                        | 50000                        | 22500                        | 71000                        | 31500                        | 100000                       |
|                                                                                                                                      | 2750                                      | 21600                        | 4000                         | 30000                        | 5500                         | 42500                        | 11000                        | 60000                        | 16000                        | 80000                        | 22500                        | 106000                       |



## HE Performans Tabloları / Performance Tables

|       |                |                |                 | 063  |                |                | 080  |                |                | 100  |                |                | 125  |                |                | 140  |                |                | 160  |                |                |
|-------|----------------|----------------|-----------------|------|----------------|----------------|------|----------------|----------------|------|----------------|----------------|------|----------------|----------------|------|----------------|----------------|------|----------------|----------------|
| $i_n$ | $n_1$<br>[d/d] | $n_2$<br>[d/d] | Kademe<br>Stage | $i$  | $Mn_2$<br>[Nm] | $Pn_2$<br>[kW] | $i$  | $Mn_2$<br>[Nm] | $Pn_2$<br>[kW] | $i$  | $Mn_2$<br>[Nm] | $Pn_2$<br>[kW] | $i$  | $Mn_2$<br>[Nm] | $Pn_2$<br>[kW] | $i$  | $Mn_2$<br>[Nm] | $Pn_2$<br>[kW] | $i$  | $Mn_2$<br>[Nm] | $Pn_2$<br>[kW] |
| 2,50  | 1750           | 700            | 1               | 2,47 | 260            | 19,3           | 2,57 | 549            | 39,1           | 2,60 | 1098           | 77,4           | 2,47 | 2195           | 163            | -    | -              | -              | 2,57 | 4606           | 328            |
|       | 1400           | 560            | 1               | 2,47 | 265            | 15,7           | 2,57 | 560            | 31,9           | 2,60 | 1120           | 63,1           | 2,47 | 2240           | 133            | -    | -              | -              | 2,57 | 4700           | 268            |
|       | 900            | 360            | 1               | 2,47 | 276            | 10,5           | 2,57 | 582            | 21,4           | 2,60 | 1165           | 42,2           | 2,47 | 2330           | 89,0           | -    | -              | -              | 2,57 | 4888           | 179            |
| 3,15  | 1750           | 556            | 1               | 3,21 | 260            | 14,8           | 3,07 | 549            | 32,8           | 3,15 | 1098           | 63,9           | 3,21 | 2195           | 125            | 3,08 | 2950           | 175            | 3,17 | 4694           | 271            |
|       | 1400           | 444            | 1               | 3,21 | 265            | 12,1           | 3,07 | 560            | 26,7           | 3,15 | 1120           | 52,1           | 3,21 | 2240           | 102            | 3,08 | 3010           | 143            | 3,17 | 4790           | 222            |
|       | 900            | 286            | 1               | 3,21 | 276            | 8,09           | 3,07 | 582            | 17,9           | 3,15 | 1165           | 34,8           | 3,21 | 2330           | 68,4           | 3,08 | 3130           | 95,8           | 3,17 | 4982           | 148            |
| 4,10  | 1750           | 427            | 1               | 4,08 | 260            | 11,7           | 4,08 | 549            | 24,6           | 3,91 | 1088           | 51,0           | 4,15 | 2195           | 96,9           | 4,08 | 2901           | 130            | 4,08 | 4694           | 211            |
|       | 1400           | 341            | 1               | 4,08 | 265            | 9,52           | 4,08 | 560            | 20,1           | 3,91 | 1110           | 41,6           | 4,15 | 2240           | 79,1           | 4,08 | 2960           | 106            | 4,08 | 4790           | 172            |
|       | 900            | 220            | 1               | 4,08 | 276            | 6,37           | 4,08 | 582            | 13,5           | 3,91 | 1154           | 27,8           | 4,15 | 2330           | 52,9           | 4,08 | 3078           | 71,1           | 4,08 | 4982           | 115            |
| 5,00  | 1750           | 350            | 1               | 4,80 | 225            | 8,60           | 4,85 | 470            | 17,8           | 4,92 | 990            | 36,9           | 4,75 | 1970           | 76,0           | 5,00 | 2705           | 99,1           | 5,00 | 4390           | 161            |
|       | 1400           | 280            | 1               | 4,80 | 230            | 7,02           | 4,85 | 480            | 14,5           | 4,92 | 1010           | 30,1           | 4,75 | 2010           | 62,0           | 5,00 | 2760           | 80,9           | 5,00 | 4480           | 131            |
|       | 900            | 180            | 1               | 4,80 | 239            | 4,70           | 4,85 | 499            | 9,70           | 4,92 | 1050           | 20,1           | 4,75 | 2090           | 41,5           | 5,00 | 2870           | 54,1           | 5,00 | 4659           | 87,8           |
| 6,30  | 1750           | 278            | 2               | 6,41 | 276            | 7,90           | 6,34 | 627            | 18,1           | 6,69 | 1098           | 30,1           | 6,42 | 2205           | 62,9           | -    | -              | -              | 6,35 | 4694           | 135            |
|       | 1400           | 222            | 2               | 6,41 | 282            | 6,45           | 6,34 | 640            | 14,8           | 6,69 | 1120           | 24,5           | 6,42 | 2250           | 51,4           | -    | -              | -              | 6,35 | 4790           | 111            |
|       | 900            | 143            | 2               | 6,41 | 293            | 4,31           | 6,34 | 666            | 9,89           | 6,69 | 1165           | 16,4           | 6,42 | 2340           | 34,3           | -    | -              | -              | 6,35 | 4982           | 73,9           |
| 8,00  | 1750           | 219            | 2               | 7,78 | 282            | 6,65           | 8,27 | 647            | 14,3           | 7,97 | 1225           | 28,2           | 7,79 | 2372           | 55,8           | -    | -              | -              | 8,27 | 5116           | 113            |
|       | 1400           | 175            | 2               | 7,78 | 288            | 5,43           | 8,27 | 660            | 11,7           | 7,97 | 1250           | 23,0           | 7,79 | 2420           | 45,5           | -    | -              | -              | 8,27 | 5220           | 92,5           |
|       | 900            | 113            | 2               | 7,78 | 300            | 3,63           | 8,27 | 686            | 7,82           | 7,97 | 1300           | 15,4           | 7,79 | 2517           | 30,4           | -    | -              | -              | 8,27 | 5429           | 61,9           |
| 10,0  | 1750           | 175            | 2               | 10,1 | 309            | 5,60           | 9,86 | 657            | 12,2           | 9,67 | 1303           | 24,7           | 10,1 | 2558           | 46,4           | 9,70 | 3410           | 64,4           | 10,2 | 5321           | 95,6           |
|       | 1400           | 140            | 2               | 10,1 | 315            | 4,57           | 9,86 | 670            | 9,96           | 9,67 | 1330           | 20,2           | 10,1 | 2610           | 37,9           | 9,70 | 3480           | 52,6           | 10,2 | 5430           | 78,0           |
|       | 900            | 90,0           | 2               | 10,1 | 328            | 3,06           | 9,86 | 697            | 6,66           | 9,67 | 1383           | 13,5           | 10,1 | 2714           | 25,3           | 9,70 | 3619           | 35,2           | 10,2 | 5647           | 52,2           |
| 12,5  | 1750           | 140            | 2               | 13,3 | 309            | 4,25           | 12,5 | 637            | 9,34           | 12,9 | 1274           | 18,1           | 12,6 | 2548           | 37,1           | 12,0 | 3254           | 49,7           | 13,2 | 5390           | 74,8           |
|       | 1400           | 112            | 2               | 13,3 | 315            | 3,47           | 12,5 | 650            | 7,62           | 12,9 | 1300           | 14,8           | 12,6 | 2600           | 30,3           | 12,0 | 3320           | 40,6           | 13,2 | 5500           | 61,1           |
|       | 900            | 72,0           | 2               | 13,3 | 328            | 2,32           | 12,5 | 676            | 5,10           | 12,9 | 1352           | 9,88           | 12,6 | 2704           | 20,2           | 12,0 | 3453           | 27,1           | 13,2 | 5720           | 40,8           |
| 16,5  | 1750           | 106            | 2               | 16,9 | 274            | 2,98           | 16,7 | 588            | 6,45           | 16,0 | 1127           | 12,9           | 16,2 | 2372           | 26,8           | 15,9 | 3342           | 38,5           | 17,0 | 4988           | 53,8           |
|       | 1400           | 84,8           | 2               | 16,9 | 280            | 2,43           | 16,7 | 600            | 5,27           | 16,0 | 1150           | 10,5           | 16,2 | 2420           | 21,9           | 15,9 | 3410           | 31,4           | 17,0 | 5090           | 43,9           |
|       | 900            | 54,5           | 2               | 16,9 | 291            | 1,62           | 16,7 | 624            | 3,52           | 16,0 | 1196           | 7,04           | 16,2 | 2517           | 14,6           | 15,9 | 3546           | 21,0           | 17,0 | 5294           | 29,3           |
| 20,0  | 1750           | 87,5           | 2               | 20,1 | 274            | 2,50           | 19,6 | 588            | 5,50           | 18,9 | 1127           | 10,9           | 20,5 | 2274           | 20,3           | 20,1 | 3048           | 27,8           | 19,4 | 4978           | 47,0           |
|       | 1400           | 70,0           | 2               | 20,1 | 280            | 2,04           | 19,6 | 600            | 4,49           | 18,9 | 1150           | 8,92           | 20,5 | 2320           | 16,6           | 20,1 | 3110           | 22,7           | 19,4 | 5080           | 38,4           |
|       | 900            | 45,0           | 2               | 20,1 | 291            | 1,37           | 19,6 | 624            | 3,00           | 18,9 | 1196           | 5,96           | 20,5 | 2413           | 11,1           | 20,1 | 3234           | 15,2           | 19,4 | 5283           | 25,7           |
| 24,0  | 1750           | 72,9           | 2               | 23,6 | 255            | 1,98           | 23,3 | 539            | 4,24           | 23,9 | 1029           | 7,89           | 23,4 | 2087           | 16,3           | 24,6 | 3028           | 22,6           | 23,8 | 4626           | 35,6           |
|       | 1400           | 58,3           | 2               | 23,6 | 260            | 1,62           | 23,3 | 550            | 3,46           | 23,9 | 1050           | 6,44           | 23,4 | 2130           | 13,3           | 24,6 | 3090           | 18,4           | 23,8 | 4720           | 29,1           |
|       | 900            | 37,5           | 2               | 23,6 | 270            | 1,08           | 23,3 | 572            | 2,31           | 23,9 | 1092           | 4,31           | 23,4 | 2215           | 8,92           | 24,6 | 3214           | 12,3           | 23,8 | 4909           | 19,4           |
| 25,0  | 1750           | 70,0           | 3               | -    | -              | -              | -    | -              | -              | -    | -              | -              | -    | -              | -              | 25,5 | 3195           | 23,0           | 24,0 | 5204           | 39,7           |
|       | 1400           | 56,0           | 3               | -    | -              | -              | -    | -              | -              | -    | -              | -              | -    | -              | -              | 25,5 | 3260           | 18,7           | 24,0 | 5310           | 32,4           |
|       | 900            | 36,0           | 3               | -    | -              | -              | -    | -              | -              | -    | -              | -              | -    | -              | -              | 25,5 | 3390           | 12,5           | 24,0 | 5522           | 21,7           |
| 31,0  | 1750           | 56,5           | 3               | -    | -              | -              | -    | -              | -              | -    | -              | -              | -    | -              | -              | 30,9 | 3244           | 19,2           | 31,3 | 5410           | 31,7           |
|       | 1400           | 45,2           | 3               | -    | -              | -              | -    | -              | -              | -    | -              | -              | -    | -              | -              | 30,9 | 3310           | 15,7           | 31,3 | 5520           | 25,9           |
|       | 900            | 29,0           | 3               | -    | -              | -              | -    | -              | -              | -    | -              | -              | -    | -              | -              | 30,9 | 3442           | 10,5           | 31,3 | 5741           | 17,3           |
| 40,0  | 1750           | 43,8           | 3               | -    | -              | -              | -    | -              | -              | -    | -              | -              | -    | -              | -              | 40,3 | 3303           | 15,0           | 36,6 | 5410           | 27,1           |
|       | 1400           | 35,0           | 3               | -    | -              | -              | -    | -              | -              | -    | -              | -              | -    | -              | -              | 40,3 | 3370           | 12,3           | 36,6 | 5520           | 22,1           |
|       | 900            | 22,5           | 3               | -    | -              | -              | -    | -              | -              | -    | -              | -              | -    | -              | -              | 40,3 | 3505           | 8,20           | 36,6 | 5741           | 14,8           |
| 50,0  | 1750           | 35,0           | 3               | -    | -              | -              | -    | -              | -              | -    | -              | -              | -    | -              | -              | 50,0 | 3303           | 12,1           | 47,4 | 5488           | 21,2           |
|       | 1400           | 28,0           | 3               | -    | -              | -              | -    | -              | -              | -    | -              | -              | -    | -              | -              | 50,0 | 3370           | 9,88           | 47,4 | 5600           | 17,3           |
|       | 900            | 18,0           | 3               | -    | -              | -              | -    | -              | -              | -    | -              | -              | -    | -              | -              | 50,0 | 3505           | 6,61           | 47,4 | 5824           | 11,6           |
| 65,0  | 1750           | 26,9           | 3               | -    | -              | -              | -    | -              | -              | -    | -              | -              | -    | -              | -              | 66,2 | 3205           | 8,87           | 61,1 | 5233           | 15,7           |
|       | 1400           | 21,5           | 3               | -    | -              | -              | -    | -              | -              | -    | -              | -              | -    | -              | -              | 66,2 | 3270           | 7,24           | 61,1 | 5340           | 12,8           |
|       | 900            | 13,8           | 3               | -    | -              | -              | -    | -              | -              | -    | -              | -              | -    | -              | -              | 66,2 | 3401           | 4,84           | 61,1 | 5554           | 8,57           |
| 82,0  | 1750           | 21,3           | 3               | -    | -              | -              | -    | -              | -              | -    | -              | -              | -    | -              | -              | 78,5 | 3205           | 7,48           | 82,2 | 5233           | 11,7           |
|       | 1400           | 17,1           | 3               | -    | -              | -              | -    | -              | -              | -    | -              | -              | -    | -              | -              | 78,5 | 3270           | 6,11           | 82,2 | 5340           | 9,52           |
|       | 900            | 11,0           | 3               | -    | -              | -              | -    | -              | -              | -    | -              | -              | -    | -              | -              | 78,5 | 3401           | 4,08           | 82,2 | 5554           | 6,37           |
| 100   | 1750           | 17,5           | 3               | -    | -              | -              | -    | -              | -              | -    | -              | -              | -    | -              | -              | 98,8 | 3156           | 5,85           | 94,0 | 5233           | 10,2           |
|       | 1400           | 14,0           | 3               | -    | -              | -              | -    | -              | -              | -    | -              | -              | -    | -              | -              | 98,8 | 3220           | 4,78           | 94,0 | 5340           | 8,33           |
|       | 900            | 9,00           | 3               | -    | -              | -              | -    | -              | -              | -    | -              | -              | -    | -              | -              | 98,8 | 3349           | 3,19           | 94,0 | 5554           | 5,57           |
| 105   | 1750           | 16,7           | 3               | -    | -              | -              | -    | -              | -              | -    | -              | -              | -    | -              | -              | 109  | 3156           | 5,31           | 107  | 5194           | 8,90           |
|       | 1400           | 13,3           | 3               | -    | -              | -              | -    | -              | -              | -    | -              | -              | -    | -              | -              | 109  | 3220           | 4,33           | 107  | 5300           | 7,26           |
|       | 900            | 8,57           | 3               | -    | -              | -              | -    | -              | -              | -    | -              | -              | -    | -              | -              | 109  | 3349           | 2,90           | 107  | 5512           | 4,85           |
| 130   | 1750           | 13,5           | 3               | -    | -              | -              | -    | -              | -              | -    | -              | -              | -    | -              | -              | 133  | 3156           | 4,35           | 132  | 4812           | 6,68           |
|       | 1400           | 10,8           | 3               | -    | -              | -              | -    | -              | -              | -    | -              | -              | -    | -              | -              | 133  | 3220           | 3,55           | 132  | 4910           | 5,45           |
|       | 900            | 6,92           | 3               | -    | -              | -              | -    | -              | -              | -    | -              | -              | -    | -              | -              | 133  | 3349           | 2,37           | 132  | 5106           | 3,65           |

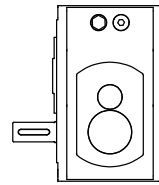
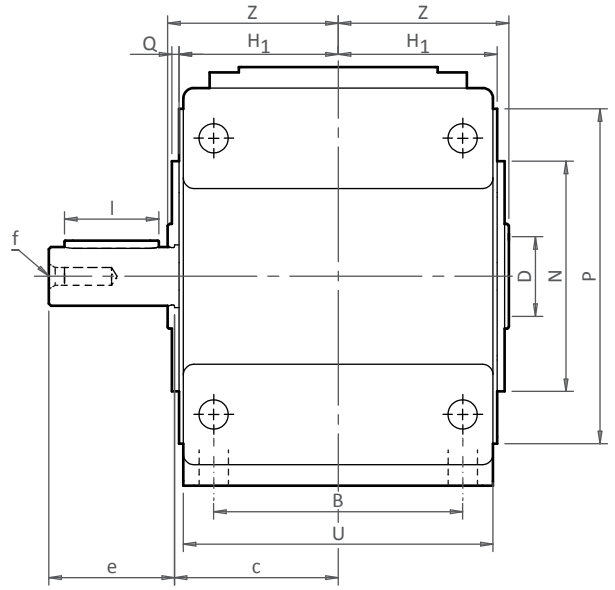
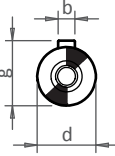
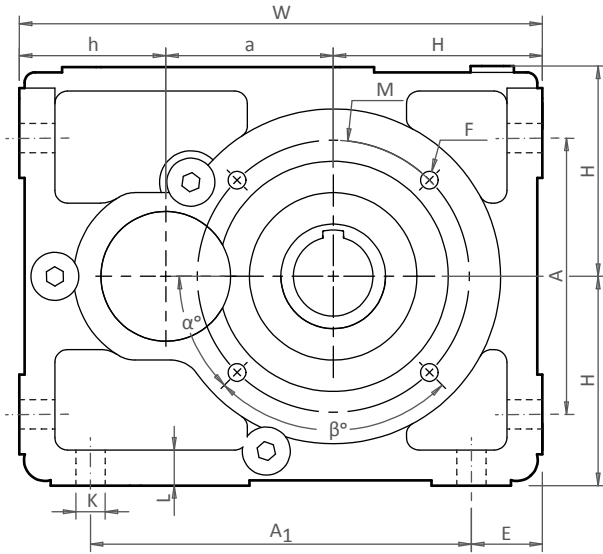


## HE Performans Tabloları / Performance Tables

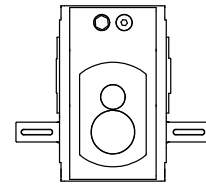
|       |                |                |                 | 180  |                         |                         | 200  |                         |                         | 225  |                         |                         | 250  |                         |                         | 280  |                         |                         | 320  |                         |                         | 360  |                         |                         |
|-------|----------------|----------------|-----------------|------|-------------------------|-------------------------|------|-------------------------|-------------------------|------|-------------------------|-------------------------|------|-------------------------|-------------------------|------|-------------------------|-------------------------|------|-------------------------|-------------------------|------|-------------------------|-------------------------|
| $i_n$ | $n_1$<br>[d/d] | $n_2$<br>[d/d] | Kademe<br>Stage | $i$  | Mn <sub>2</sub><br>[Nm] | Pn <sub>2</sub><br>[kW] | $i$  | Mn <sub>2</sub><br>[Nm] | Pn <sub>2</sub><br>[kW] | $i$  | Mn <sub>2</sub><br>[Nm] | Pn <sub>2</sub><br>[kW] | $i$  | Mn <sub>2</sub><br>[Nm] | Pn <sub>2</sub><br>[kW] | $i$  | Mn <sub>2</sub><br>[Nm] | Pn <sub>2</sub><br>[kW] | $i$  | Mn <sub>2</sub><br>[Nm] | Pn <sub>2</sub><br>[kW] | $i$  | Mn <sub>2</sub><br>[Nm] | Pn <sub>2</sub><br>[kW] |
| 2,50  | 1750           | 700            | 1               | -    | -                       | -                       | 2,50 | 9800                    | 718                     | -    | -                       | -                       | 2,52 | 22295                   | 1619                    | 2,53 | 24598                   | 1782                    | 2,55 | 38416                   | 2761                    | -    | -                       | -                       |
|       | 1400           | 560            | 1               | -    | -                       | -                       | 2,50 | 10000                   | 586                     | -    | -                       | -                       | 2,52 | 22750                   | 1321                    | 2,53 | 25100                   | 1454                    | 2,55 | 39200                   | 2254                    | -    | -                       | -                       |
|       | 900            | 360            | 1               | -    | -                       | -                       | 2,50 | 10400                   | 392                     | -    | -                       | -                       | 2,52 | 23660                   | 883                     | 2,53 | 26104                   | 972                     | 2,55 | 40768                   | 1507                    | -    | -                       | -                       |
| 3,15  | 1750           | 556            | 1               | 3,07 | 6860                    | 409                     | 3,20 | 9800                    | 561                     | 3,06 | 13328                   | 798                     | 3,11 | 23216                   | 1367                    | 3,19 | 27881                   | 1602                    | 3,11 | 40817                   | 2405                    | 3,12 | 56095                   | 3295                    |
|       | 1400           | 444            | 1               | 3,07 | 7000                    | 334                     | 3,20 | 10000                   | 458                     | 3,06 | 13600                   | 652                     | 3,11 | 23690                   | 1116                    | 3,19 | 28450                   | 1307                    | 3,11 | 41650                   | 1963                    | 3,12 | 57240                   | 2689                    |
|       | 900            | 286            | 1               | 3,07 | 7280                    | 223                     | 3,20 | 10400                   | 306                     | 3,06 | 14144                   | 436                     | 3,11 | 24638                   | 746                     | 3,19 | 29588                   | 874                     | 3,11 | 43316                   | 1313                    | 3,12 | 59530                   | 1798                    |
| 4,10  | 1750           | 427            | 1               | 4,09 | 6635                    | 297                     | 4,13 | 9800                    | 435                     | 4,14 | 13328                   | 590                     | 4,06 | 22824                   | 1030                    | 4,07 | 27342                   | 1231                    | 4,07 | 41405                   | 1864                    | 4,18 | 54263                   | 2379                    |
|       | 1400           | 341            | 1               | 4,09 | 6770                    | 243                     | 4,13 | 10000                   | 355                     | 4,14 | 13600                   | 482                     | 4,06 | 23290                   | 840                     | 4,07 | 27900                   | 1005                    | 4,07 | 42250                   | 1522                    | 4,18 | 55370                   | 1942                    |
|       | 900            | 220            | 1               | 4,09 | 7041                    | 162                     | 4,13 | 10400                   | 237                     | 4,14 | 14144                   | 322                     | 4,06 | 24222                   | 562                     | 4,07 | 29016                   | 672                     | 4,07 | 43940                   | 1017                    | 4,18 | 57585                   | 1298                    |
| 5,00  | 1750           | 350            | 1               | 4,92 | 5664                    | 211                     | 4,92 | 8624                    | 321                     | 5,00 | 11613                   | 426                     | 5,08 | 17307                   | 625                     | 5,07 | 23667                   | 855                     | 4,93 | 35427                   | 1317                    | 4,87 | 48324                   | 1818                    |
|       | 1400           | 280            | 1               | 4,92 | 5780                    | 172                     | 4,92 | 8800                    | 262                     | 5,00 | 11850                   | 347                     | 5,08 | 17660                   | 510                     | 5,07 | 24150                   | 698                     | 4,93 | 36150                   | 1075                    | 4,87 | 49310                   | 1484                    |
|       | 900            | 180            | 1               | 4,92 | 6011                    | 115                     | 4,92 | 9152                    | 175                     | 5,00 | 12324                   | 232                     | 5,08 | 18366                   | 341                     | 5,07 | 25116                   | 467                     | 4,93 | 37596                   | 719                     | 4,87 | 51282                   | 992                     |
| 6,30  | 1750           | 278            | 2               | -    | -                       | -                       | 6,43 | 9800                    | 279                     | -    | -                       | -                       | 6,31 | 5,08                    | 636                     | 6,32 | 24637                   | 714                     | 6,42 | 36750                   | 1049                    | -    | -                       | -                       |
|       | 1400           | 222            | 2               | -    | -                       | -                       | 6,43 | 10000                   | 228                     | -    | -                       | -                       | 6,31 | 22360                   | 520                     | 6,32 | 25140                   | 583                     | 6,42 | 37500                   | 856                     | -    | -                       | -                       |
|       | 900            | 143            | 2               | -    | -                       | -                       | 6,43 | 10400                   | 152                     | -    | -                       | -                       | 6,31 | 23254                   | 347                     | 6,32 | 26146                   | 390                     | 6,42 | 39000                   | 572                     | -    | -                       | -                       |
| 8,00  | 1750           | 219            | 2               | -    | -                       | -                       | 7,92 | 10780                   | 249                     | -    | -                       | -                       | 8,08 | 22540                   | 511                     | 8,08 | 24931                   | 565                     | 7,92 | 40964                   | 948                     | -    | -                       | -                       |
|       | 1400           | 175            | 2               | -    | -                       | -                       | 7,92 | 11000                   | 204                     | -    | -                       | -                       | 8,08 | 23000                   | 417                     | 8,08 | 25440                   | 462                     | 7,92 | 41800                   | 774                     | -    | -                       | -                       |
|       | 900            | 113            | 2               | -    | -                       | -                       | 7,92 | 11440                   | 136                     | -    | -                       | -                       | 8,08 | 23920                   | 279                     | 8,08 | 26458                   | 309                     | 7,92 | 43472                   | 517                     | -    | -                       | -                       |
| 10,0  | 1750           | 175            | 2               | 9,87 | 6899                    | 128                     | 10,1 | 11270                   | 204                     | 9,70 | 15876                   | 301                     | 9,96 | 24363                   | 448                     | 10,2 | 29841                   | 536                     | 9,66 | 42630                   | 809                     | 9,70 | 62945                   | 1189                    |
|       | 1400           | 140            | 2               | 9,87 | 7040                    | 105                     | 10,1 | 11500                   | 167                     | 9,70 | 16200                   | 245                     | 9,96 | 24860                   | 366                     | 10,2 | 30450                   | 438                     | 9,66 | 43500                   | 660                     | 9,70 | 64230                   | 971                     |
|       | 900            | 90,0           | 2               | 9,87 | 7322                    | 69,9                    | 10,1 | 11960                   | 112                     | 9,70 | 16848                   | 164                     | 9,96 | 25854                   | 245                     | 10,2 | 31668                   | 293                     | 9,66 | 45240                   | 441                     | 9,70 | 66799                   | 649                     |
| 12,5  | 1750           | 140            | 2               | 12,8 | 6968                    | 99,8                    | 13,1 | 11270                   | 158                     | 12,5 | 15680                   | 230                     | 12,9 | 25186                   | 359                     | 13,2 | 29665                   | 412                     | 12,6 | 43316                   | 630                     | 12,7 | 63514                   | 916                     |
|       | 1400           | 112            | 2               | 12,8 | 7110                    | 81,4                    | 13,1 | 11500                   | 129                     | 12,5 | 16000                   | 188                     | 12,9 | 25700                   | 293                     | 13,2 | 30270                   | 336                     | 12,6 | 44200                   | 514                     | 12,7 | 64810                   | 748                     |
|       | 900            | 72,0           | 2               | 12,8 | 7394                    | 54,4                    | 13,1 | 11960                   | 86,0                    | 12,5 | 16640                   | 125                     | 12,9 | 26728                   | 196                     | 13,2 | 31481                   | 225                     | 12,6 | 45968                   | 344                     | 12,7 | 67402                   | 500                     |
| 16,5  | 1750           | 106            | 2               | 17,0 | 7105                    | 76,6                    | 16,9 | 10878                   | 118                     | 16,9 | 14818                   | 161                     | 16,8 | 24500                   | 267                     | 16,8 | 32389                   | 353                     | 16,5 | 44198                   | 491                     | 17,0 | 62700                   | 676                     |
|       | 1400           | 84,8           | 2               | 17,0 | 7250                    | 62,5                    | 16,9 | 11100                   | 96,3                    | 16,9 | 15120                   | 131                     | 16,8 | 25000                   | 218                     | 16,8 | 33050                   | 288                     | 16,5 | 45100                   | 401                     | 17,0 | 63980                   | 552                     |
|       | 900            | 54,5           | 2               | 17,0 | 7540                    | 41,8                    | 16,9 | 11544                   | 64,4                    | 16,9 | 15725                   | 87,7                    | 16,8 | 26000                   | 146                     | 16,8 | 34372                   | 193                     | 16,5 | 46904                   | 268                     | 17,0 | 66539                   | 369                     |
| 20,0  | 1750           | 87,5           | 2               | 19,4 | 7105                    | 67,1                    | 19,6 | 10290                   | 96,2                    | 19,7 | 14671                   | 136                     | 20,0 | 24471                   | 224                     | 20,0 | 32428                   | 297                     | 20,7 | 42630                   | 377                     | 21,2 | 65797                   | 569                     |
|       | 1400           | 70,0           | 2               | 19,4 | 7250                    | 54,8                    | 19,6 | 10500                   | 78,5                    | 19,7 | 14970                   | 111                     | 20,0 | 24970                   | 183                     | 20,0 | 33090                   | 243                     | 20,7 | 43500                   | 308                     | 21,2 | 67140                   | 464                     |
|       | 900            | 45,0           | 2               | 19,4 | 7540                    | 36,6                    | 19,6 | 10920                   | 52,5                    | 19,7 | 15569                   | 74,5                    | 20,0 | 25969                   | 122                     | 20,0 | 34414                   | 162                     | 20,7 | 45240                   | 206                     | 21,2 | 69826                   | 310                     |
| 24,0  | 1750           | 72,9           | 2               | 23,4 | 7056                    | 55,3                    | 23,4 | 9555                    | 74,8                    | 23,8 | 13465                   | 104                     | 25,0 | 18395                   | 135                     | 24,9 | 27558                   | 203                     | 25,1 | 38808                   | 283                     | 24,7 | 58281                   | 432                     |
|       | 1400           | 58,3           | 2               | 23,4 | 7200                    | 45,1                    | 23,4 | 9750                    | 61,1                    | 23,8 | 13740                   | 84,6                    | 25,0 | 18770                   | 110                     | 24,9 | 28120                   | 166                     | 25,1 | 39600                   | 231                     | 24,7 | 59470                   | 353                     |
|       | 900            | 37,5           | 2               | 23,4 | 7488                    | 30,2                    | 23,4 | 10140                   | 40,8                    | 23,8 | 14290                   | 56,6                    | 25,0 | 19521                   | 74                      | 24,9 | 29245                   | 111                     | 25,1 | 41184                   | 155                     | 24,7 | 61849                   | 236                     |
| 25,0  | 1750           | 70,0           | 3               | 23,3 | 7134                    | 56,1                    | 26,1 | 11270                   | 79,1                    | 25,0 | 14612                   | 107                     | -    | -                       | -                       | -    | -                       | -                       | -    | -                       | -                       | -    | -                       | -                       |
|       | 1400           | 56,0           | 3               | 23,3 | 7280                    | 45,8                    | 26,1 | 11500                   | 64,6                    | 25,0 | 14910                   | 87,4                    | -    | -                       | -                       | -    | -                       | -                       | -    | -                       | -                       | -    | -                       | -                       |
|       | 900            | 36,0           | 3               | 23,3 | 7571                    | 30,6                    | 26,1 | 11960                   | 43,2                    | 25,0 | 15506                   | 58,5                    | -    | -                       | -                       | -    | -                       | -                       | -    | -                       | -                       | -    | -                       | -                       |
| 31,0  | 1750           | 56,5           | 3               | 30,3 | 7203                    | 43,6                    | 32,2 | 11760                   | 66,9                    | 30,7 | 16533                   | 98,7                    | 30,6 | 25441                   | 152                     | 31,4 | 31899                   | 186                     | 29,7 | 46452                   | 287                     | 29,8 | 66807                   | 411                     |
|       | 1400           | 45,2           | 3               | 30,3 | 7350                    | 35,6                    | 32,2 | 12000                   | 54,6                    | 30,7 | 16870                   | 80,6                    | 30,6 | 25960                   | 124                     | 31,4 | 32550                   | 152                     | 29,7 | 47400                   | 234                     | 29,8 | 68170                   | 335                     |
|       | 900            | 29,0           | 3               | 30,3 | 7644                    | 23,8                    | 32,2 | 12480                   | 36,5                    | 30,7 | 17545                   | 53,9                    | 30,6 | 26998                   | 83                      | 31,4 | 33852                   | 102                     | 29,7 | 49296                   | 156                     | 29,8 | 70897                   | 224                     |
| 40,0  | 1750           | 43,8           | 3               | 35,5 | 7203                    | 37,2                    | 41,9 | 11760                   | 51,4                    | 40,0 | 16533                   | 75,7                    | 40,6 | 25274                   | 114                     | 40,6 | 32164                   | 142                     | 39,5 | 47432                   | 220                     | 39,7 | 68071                   | 314                     |
|       | 1400           | 35,0           | 3               | 35,5 | 7350                    | 30,4                    | 41,9 | 12000                   | 42,0                    | 40,0 | 16870                   | 61,8                    | 40,6 | 25790                   | 93                      | 40,6 | 32820                   | 116                     | 39,5 | 48400                   | 180                     | 39,7 | 69460                   | 256                     |
|       | 900            | 22,5           | 3               | 35,5 | 7644                    | 20,3                    | 41,9 | 12480                   | 28,1                    | 40,0 | 17545                   | 41,3                    | 40,6 | 26822                   | 62                      | 40,6 | 34133                   | 77,3                    | 39,5 | 50336                   | 120                     | 39,7 | 72238                   | 171                     |
| 50,0  | 1750           | 35,0           | 3               | 45,9 | 7379                    | 29,5                    | 54,0 | 11025                   | 37,4                    | 51,6 | 15504                   | 55,1                    | 52,4 | 26019                   | 91                      | 53,7 | 34516                   | 118                     | 51,6 | 47432                   | 168                     | 51,8 | 69306                   | 245                     |
|       | 1400           | 28,0           | 3               | 45,9 | 7530                    | 24,0                    | 54,0 | 11250                   | 30,5                    | 51,6 | 15820                   | 44,9                    | 52,4 | 26550                   | 74                      | 53,7 | 35220                   | 96,1                    | 51,6 | 48400                   | 138                     | 51,8 | 70720                   | 200                     |
|       | 900            | 18,0           | 3               | 45,9 | 7831                    | 16,1                    | 54,0 | 11700                   | 20,4                    | 51,6 | 16453                   | 30,0                    | 52,4 | 27612                   | 50                      | 53,7 | 36629                   | 64,3                    | 51,6 | 50336                   | 91,9                    | 51,8 | 73549                   | 134                     |
| 65,0  | 1750           | 26,9           | 3               | 61,2 | 7379                    | 22,1                    | 69,8 | 11270                   | 29,6                    | 69,9 | 15847                   | 41,5                    | 68,5 | 23677                   | 63                      | 68,5 | 32830                   | 87,8                    | 67,6 | 47432                   | 129                     | 69,4 | 69580                   | 184                     |
|       | 1400           | 21,5           | 3               | 61,2 | 7530                    | 18,0                    | 69,8 | 11500                   | 24,2                    | 69,9 | 16170                   | 33,9                    | 68,5 | 24160                   | 5                       |      |                         |                         |      |                         |                         |      |                         |                         |



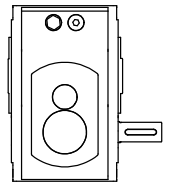
## HE 1063 - 1100 Ölçü Tabloları / Dimension Tables



A



D



L

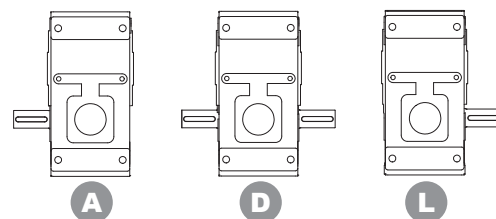
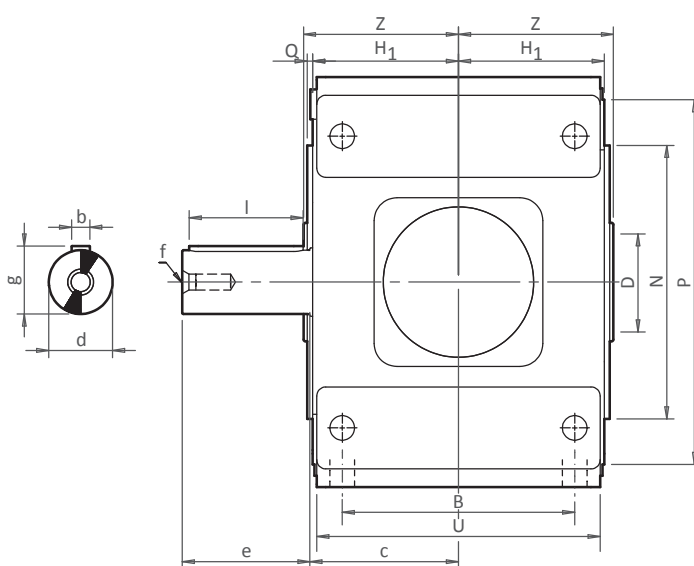
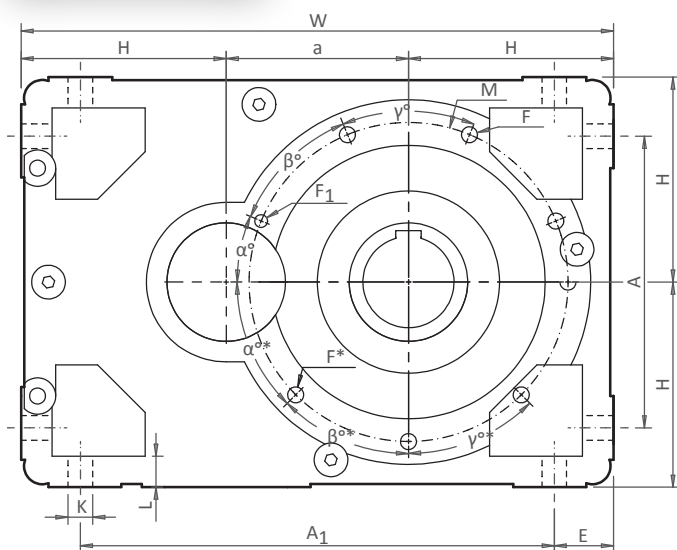
| Gövde Büyüklüğü<br>Size | a   | A   | A <sub>1</sub> | B   | c  | D [H7] | E  | F        | H [h10] | H <sub>1</sub> [H11] | h [h10] | K  | L  | M   | N [h6] | P   | Q | U   |
|-------------------------|-----|-----|----------------|-----|----|--------|----|----------|---------|----------------------|---------|----|----|-----|--------|-----|---|-----|
| 1063                    | 63  | 102 | 147            | 100 | 66 | 30     | 29 | 4xM8↓16  | 80      | 64                   | 62      | 12 | 14 | 100 | 80     | 120 | 3 | 124 |
| 1080                    | 80  | 132 | 182            | 119 | 79 | 38     | 34 | 4xM10↓18 | 100     | 76                   | 70      | 14 | 17 | 130 | 110    | 160 | 4 | 148 |
| 1100                    | 100 | 172 | 227            | 144 | 95 | 48     | 39 | 4xM12↓24 | 125     | 91                   | 80      | 18 | 20 | 165 | 130    | 200 | 4 | 178 |

| Gövde Büyüklüğü<br>Size | α° | β° | W [h10] | Z  | i > 3,5 |         |    |      |    |     | i < 3,5 |         |    |    |    |     | Ağırlık<br>weight [kg] |
|-------------------------|----|----|---------|----|---------|---------|----|------|----|-----|---------|---------|----|----|----|-----|------------------------|
|                         |    |    |         |    | b       | d       | e  | g    | l  | f   | b       | d       | e  | g  | l  | f   |                        |
| 1063                    | 45 | 90 | 205     | 68 | 6       | 19 [j6] | 40 | 21,5 | 36 | M6  | 8       | 24 [j6] | 50 | 27 | 45 | M8  | 14                     |
| 1080                    | 45 | 90 | 250     | 82 | 8       | 24 [j6] | 50 | 27   | 45 | M8  | 8       | 28 [j6] | 60 | 31 | 45 | M10 | 25                     |
| 1100                    | 45 | 90 | 305     | 97 | 8       | 28 [j6] | 60 | 31   | 45 | M10 | 10      | 32 [k6] | 80 | 35 | 70 | M12 | 45                     |

## Montaj Pozisyonları ve Yağlama Miktarı [l] / Mounting Position and Lubrication [l]

| Gövde Büyüklüğü<br>Size | M3  | M4  | M5  | M6  | M7  | M8  |
|-------------------------|-----|-----|-----|-----|-----|-----|
| 1063                    |     |     |     |     |     |     |
| 1063                    | 0,8 | 0,8 | 0,9 | 1,1 | 1,1 | 1,1 |
| 1080                    | 1,3 | 1,3 | 1,7 | 2,1 | 2,1 | 2,1 |
| 1100                    | 2,3 | 2,3 | 2,9 | 3,9 | 3,9 | 3,9 |

## HE 1125 - 1360 Ölçü Tabloları / Dimension Tables



| Gövde<br>Büyüklüğü<br>Size | a   | A   | A <sub>1</sub> | B   | c   | D<br>[H7] | E   | F         | F <sub>1</sub> | H<br>[h10] | H <sub>1</sub><br>[H11] | K  | L  | M   | N<br>[h6] | P   | Q  | U   |
|----------------------------|-----|-----|----------------|-----|-----|-----------|-----|-----------|----------------|------------|-------------------------|----|----|-----|-----------|-----|----|-----|
| 1125                       | 125 | 212 | 337            | 168 | 110 | 60        | 44  | 7xM12↓24* | -              | 150        | 107                     | 18 | 23 | 215 | 180       | 250 | 4  | 207 |
| 1140                       | 140 | 212 | 352            | 168 | 111 | 70        | 44  | 6xM14↓30  | 2xM12↓30       | 150        | 107                     | 18 | 23 | 265 | 230       | 300 | 4  | 205 |
| 1160                       | 160 | 252 | 412            | 220 | 139 | 80        | 54  | 6xM16↓32  | 2xM12↓32       | 180        | 136                     | 22 | 28 | 265 | 230       | 300 | 5  | 264 |
| 1180                       | 180 | 252 | 432            | 220 | 139 | 90        | 54  | 8xM16↓32  | -              | 180        | 136                     | 22 | 28 | 300 | 250       | 350 | 10 | 264 |
| 1200                       | 200 | 320 | 520            | 255 | 163 | 100       | 65  | 6xM20↓40  | 2xM16↓40       | 225        | 160                     | 27 | 34 | 350 | 300       | 400 | 6  | 311 |
| 1225                       | 225 | 320 | 545            | 255 | 163 | 110       | 65  | 6xM20↓42  | 2xM16↓42       | 225        | 160                     | 27 | 34 | 400 | 350       | 450 | 6  | 311 |
| 1250                       | 250 | 396 | 646            | 310 | 198 | 125       | 82  | 6xM24↓60  | 2xM20↓60       | 280        | 195                     | 33 | 42 | 500 | 450       | 550 | 22 | 380 |
| 1280                       | 280 | 396 | 676            | 330 | 208 | 140       | 82  | 6xM24↓60  | 2xM18↓60       | 280        | 205                     | 33 | 42 | 500 | 450       | 550 | 22 | 400 |
| 1320                       | 320 | 510 | 830            | 406 | 253 | 160       | 100 | 8xM30↓60  | -              | 355        | 251                     | 39 | 52 | 600 | 550       | 660 | 20 | 490 |
| 1360                       | 360 | 510 | 870            | 421 | 262 | 180       | 100 | 8xM30↓48  | -              | 355        | 261                     | 39 | 52 | 600 | 550       | 660 | 20 | 505 |

| Gövde<br>Büyüklüğü<br>Size | α°   | β°   | γ°  | W<br>[h10] | Z   | i > 3,5 |          |     |      |     |     | i < 3,5 |          |     |      |     |     | Ağırlık<br>Weight<br>[kg] |
|----------------------------|------|------|-----|------------|-----|---------|----------|-----|------|-----|-----|---------|----------|-----|------|-----|-----|---------------------------|
|                            |      |      |     |            |     | b       | d        | e   | g    | l   | f   | b       | d        | e   | g    | l   | f   |                           |
| 1125                       | 45*  | 45*  | 45* | 425        | 113 | 10      | 38 [k6]  | 80  | 41   | 70  | M12 | 14      | 48 [k6]  | 110 | 51,5 | 90  | M16 | 81                        |
| 1140                       | 23,5 | 44   | 45  | 440        | 114 | 10      | 38 [k6]  | 80  | 41   | 70  | M12 | 14      | 48 [k6]  | 110 | 51,5 | 90  | M16 | 91                        |
| 1160                       | 25   | 42,5 | 45  | 520        | 145 | 14      | 48 [k6]  | 110 | 51,5 | 90  | M16 | 16      | 55 [m6]  | 110 | 59   | 90  | M20 | 156                       |
| 1180                       | 22,5 | 45   | 45  | 540        | 150 | 14      | 48 [k6]  | 110 | 51,5 | 90  | M16 | 16      | 55 [m6]  | 110 | 59   | 90  | M20 | 177                       |
| 1200                       | 22,5 | 45   | 45  | 650        | 170 | 16      | 55 [m6]  | 110 | 59   | 90  | M20 | 20      | 70 [m6]  | 140 | 74,5 | 125 | M20 | 275                       |
| 1225                       | 22,5 | 45   | 45  | 675        | 170 | 18      | 60 [m6]  | 140 | 64   | 110 | M20 | 20      | 75 [m6]  | 140 | 79,5 | 125 | M20 | 306                       |
| 1250                       | 25,5 | 42   | 45  | 810        | 222 | 22      | 80 [m6]  | 170 | 85   | 140 | M20 | 22      | 80 [m6]  | 170 | 85   | 140 | M20 | 548                       |
| 1280                       | 22,5 | 45   | 45  | 840        | 232 | 22      | 80 [m6]  | 170 | 85   | 140 | M20 | 22      | 80 [m6]  | 170 | 85   | 140 | M20 | 625                       |
| 1320                       | 30   | 37,5 | 45  | 1030       | 276 | 25      | 95 [m6]  | 170 | 100  | 140 | M24 | 25      | 95 [m6]  | 170 | 100  | 140 | M24 | 1070                      |
| 1360                       | 30   | 37,5 | 45  | 1070       | 286 | 28      | 110 [m6] | 210 | 116  | 180 | M24 | 28      | 110 [m6] | 210 | 116  | 180 | M24 | 1250                      |

## ● Montaj Pozisyonları ve Yağlama Miktarı [I] / Mounting Position and Lubrication [I]

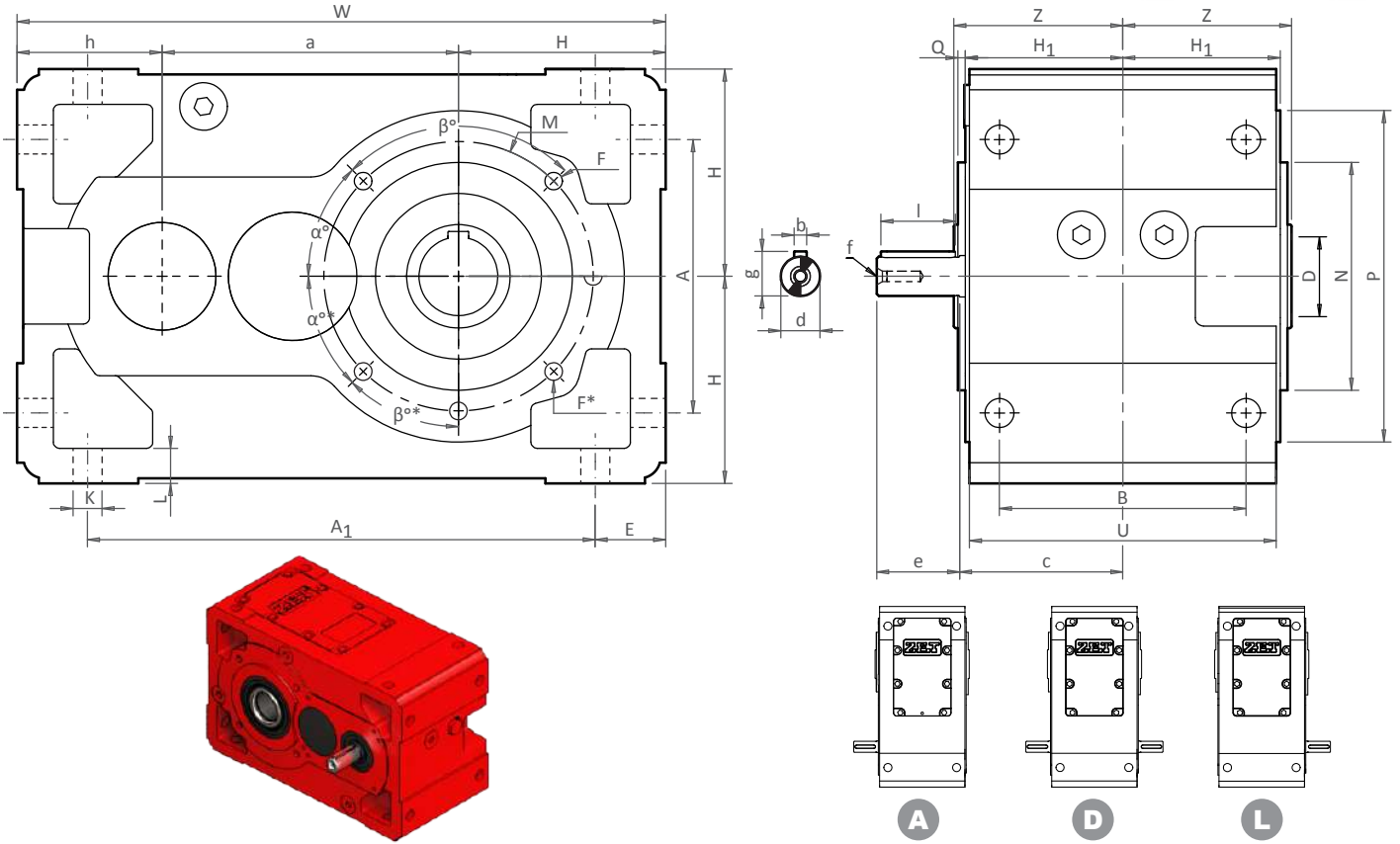
\* 125 gövde flanş geometrisidir.  
\* Flange geometry of size 125

| Gövde<br>Büyüklüğü<br>Size | Gövde Boyutları (mm)                                                                |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
|----------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                            | M3                                                                                  | M4                                                                                  | M5                                                                                  | M6                                                                                  | M7                                                                                    | M8                                                                                    |
|                            |  |  |  |  |  |  |
| 1125                       | 4,4                                                                                 | 4,4                                                                                 | 5,8                                                                                 | 6,5                                                                                 | 6,5                                                                                   | 6,5                                                                                   |
| 1140                       | 4,9                                                                                 | 4,9                                                                                 | 8                                                                                   | 9                                                                                   | 9                                                                                     | 9                                                                                     |
| 1160                       | 8,5                                                                                 | 8,5                                                                                 | 11,3                                                                                | 12,6                                                                                | 12,6                                                                                  | 12,6                                                                                  |
| 1180                       | 9,6                                                                                 | 9,6                                                                                 | 15,7                                                                                | 17,5                                                                                | 17,5                                                                                  | 17,5                                                                                  |
| 1200                       | 15,2                                                                                | 15,2                                                                                | 20,3                                                                                | 22,7                                                                                | 22,7                                                                                  | 22,7                                                                                  |
| 1225                       | 17,3                                                                                | 17,3                                                                                | 28,4                                                                                | 32                                                                                  | 32                                                                                    | 32                                                                                    |
| 1250                       | 28                                                                                  | 28                                                                                  | 37,5                                                                                | 42,5                                                                                | 42,5                                                                                  | 42,5                                                                                  |
| 1280                       | 33,7                                                                                | 33,7                                                                                | 55,8                                                                                | 63,2                                                                                | 63,2                                                                                  | 63,2                                                                                  |
| 1320                       | 55,3                                                                                | 55,3                                                                                | 74,1                                                                                | 83,4                                                                                | 83,4                                                                                  | 83,4                                                                                  |
| 1360                       | 64,5                                                                                | 64,5                                                                                | 108                                                                                 | 121                                                                                 | 121                                                                                   | 121                                                                                   |





## HE 2063 - 2125 Ölçü Tabloları / Dimension Tables



| Gövde<br>Büyüküğü<br>Size | a   | A   | A <sub>1</sub> | B   | c   | D<br>[H7] | E  | F         | H<br>[h10] | H <sub>1</sub><br>[H11] | h<br>[h10] | K  | L  | M   | N<br>[h6] | P   | Q | U   |
|---------------------------|-----|-----|----------------|-----|-----|-----------|----|-----------|------------|-------------------------|------------|----|----|-----|-----------|-----|---|-----|
| 2063                      | 113 | 102 | 197            | 100 | 66  | 30        | 29 | 4xM8↓16   | 80         | 64                      | 62         | 12 | 14 | 100 | 80        | 120 | 3 | 124 |
| 2080                      | 143 | 132 | 245            | 119 | 79  | 38        | 34 | 4xM10↓18  | 100        | 76                      | 70         | 14 | 17 | 130 | 110       | 160 | 4 | 148 |
| 2100                      | 180 | 172 | 307            | 144 | 95  | 48        | 39 | 4xM12↓24  | 125        | 91                      | 80         | 18 | 20 | 165 | 130       | 200 | 4 | 178 |
| 2125                      | 225 | 212 | 387            | 168 | 110 | 60        | 44 | 7xM12↓24* | 150        | 107                     | 100        | 18 | 23 | 215 | 180       | 250 | 4 | 207 |

| Gövde<br>Büyüküğü<br>Size | α°  | β°  | W<br>[h10] | Z   | i > 11 |         |    |      |    |     | i < 11 |         |    |      |    |     | Ağırlık<br>Weight<br>[kg] |
|---------------------------|-----|-----|------------|-----|--------|---------|----|------|----|-----|--------|---------|----|------|----|-----|---------------------------|
|                           |     |     |            |     | b      | d       | e  | g    | l  | f   | b      | d       | e  | g    | l  | f   |                           |
| 2063                      | 45  | 90  | 255        | 68  | 5      | 16 [j6] | 30 | 18   | 25 | M5  | 6      | 19 [j6] | 40 | 21,5 | 36 | M6  | 18                        |
| 2080                      | 45  | 90  | 313        | 82  | 6      | 19 [j6] | 40 | 21,5 | 36 | M6  | 8      | 24 [j6] | 50 | 27   | 45 | M8  | 31                        |
| 2100                      | 45  | 90  | 385        | 97  | 8      | 24 [j6] | 50 | 27   | 45 | M8  | 8      | 28 [j6] | 60 | 31   | 45 | M10 | 62                        |
| 2125                      | 45* | 45* | 475        | 113 | 8      | 28 [j6] | 60 | 31   | 45 | M10 | 10     | 32 [k6] | 80 | 35   | 70 | M12 | 92                        |

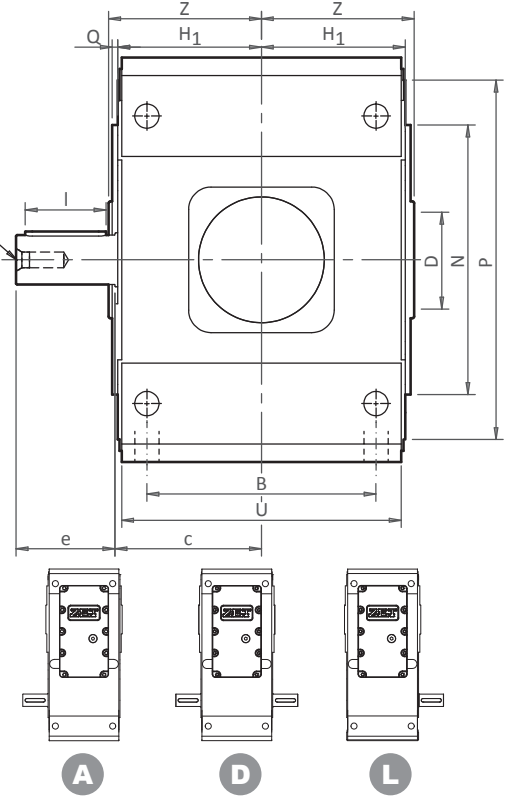
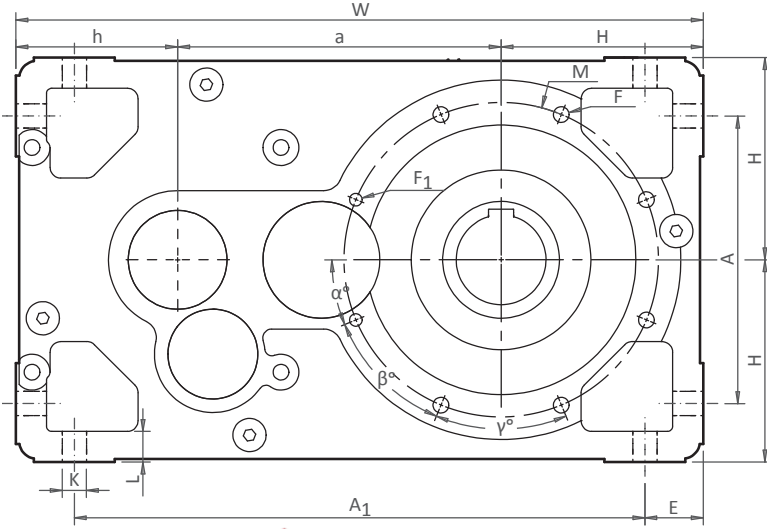
\* 125 gövde flanş geometrisidir.  
\* Flange geometry of size 125

## Montaj Pozisyonları ve Yağlama Miktarı [l] / Mounting Position and Lubrication [l]

| Gövde<br>Büyüküğü<br>Size | M3  | M4  | M5  | M6  | M7  | M8  |
|---------------------------|-----|-----|-----|-----|-----|-----|
| 2063                      | 1   | 1   | 1,3 | 1,5 | 1,3 | 1,3 |
| 2080                      | 1,7 | 1,7 | 2,6 | 3   | 2,6 | 2,6 |
| 2100                      | 3,2 | 3,2 | 4,9 | 5,8 | 4,9 | 4,9 |
| 2125                      | 5,8 | 5,8 | 8,3 | 9,8 | 8,3 | 8,3 |



## HE 2140 - 2360 Ölçü Tabloları / Dimension Tables



| Gövde<br>Büyüküğü<br>Size | a   | A   | A <sub>1</sub> | B   | c   | D<br>[H7] | E   | F        | F1       | H<br>[h10] | H <sub>1</sub><br>[H11] | h<br>[h10] | K  | L  | M   | N<br>[h6] | P   | Q  | U   |
|---------------------------|-----|-----|----------------|-----|-----|-----------|-----|----------|----------|------------|-------------------------|------------|----|----|-----|-----------|-----|----|-----|
| 2140                      | 240 | 212 | 427            | 168 | 110 | 70        | 44  | 6xM14↓30 | 2xM12↓30 | 150        | 107                     | 125        | 18 | 23 | 265 | 230       | 300 | 4  | 205 |
| 2160                      | 285 | 252 | 507            | 220 | 139 | 80        | 54  | 6xM16↓32 | 2xM12↓32 | 180        | 136                     | 150        | 22 | 28 | 265 | 230       | 300 | 5  | 264 |
| 2180                      | 305 | 252 | 527            | 220 | 139 | 90        | 54  | 8xM16↓32 | -        | 180        | 136                     | 150        | 22 | 28 | 300 | 250       | 350 | 10 | 264 |
| 2200                      | 360 | 320 | 635            | 255 | 163 | 100       | 65  | 6xM20↓40 | 2xM16↓40 | 225        | 160                     | 180        | 27 | 34 | 350 | 300       | 400 | 6  | 311 |
| 2225                      | 385 | 320 | 660            | 255 | 163 | 110       | 65  | 6xM20↓42 | 2xM16↓42 | 225        | 160                     | 180        | 27 | 34 | 400 | 350       | 450 | 6  | 311 |
| 2250                      | 450 | 396 | 791            | 310 | 208 | 125       | 82  | 6xM24↓60 | 2xM20↓60 | 280        | 195                     | 225        | 33 | 42 | 500 | 450       | 550 | 22 | 380 |
| 2280                      | 480 | 396 | 821            | 330 | 208 | 140       | 82  | 6xM24↓60 | 2xM18↓60 | 280        | 205                     | 225        | 33 | 42 | 500 | 450       | 550 | 22 | 400 |
| 2320                      | 570 | 510 | 1005           | 406 | 254 | 160       | 100 | 8xM30↓60 | -        | 355        | 251                     | 280        | 39 | 52 | 600 | 550       | 660 | 20 | 490 |
| 2360                      | 610 | 510 | 1045           | 421 | 264 | 180       | 100 | 8xM30↓60 | -        | 355        | 261                     | 280        | 39 | 52 | 600 | 550       | 660 | 20 | 505 |

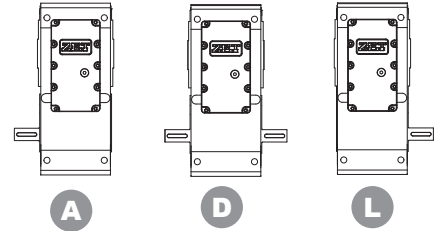
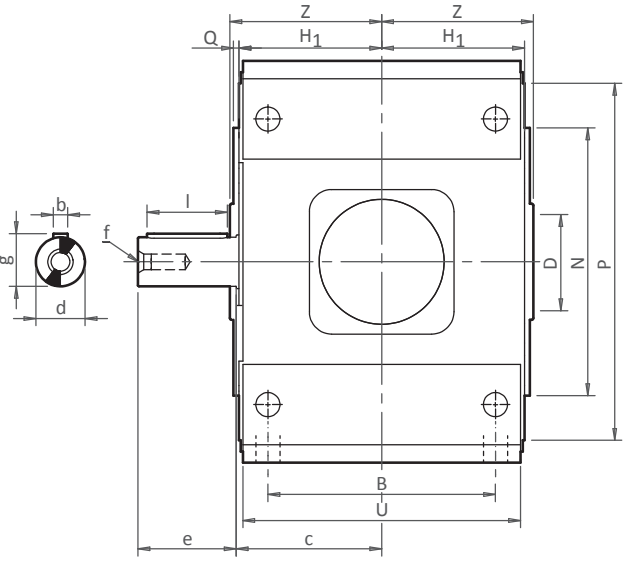
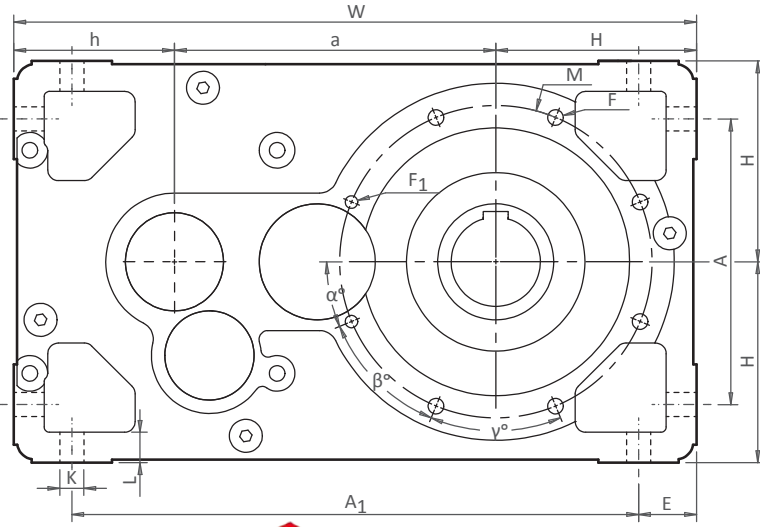
| Gövde<br>Büyüküğü<br>Size | α°   | β°   | γ° | W<br>[h10] | Z   | i > 11 |         |     |      |     |     | i < 11 |          |     |      |     |     | Ağırlık<br>Weight<br>[kg] |
|---------------------------|------|------|----|------------|-----|--------|---------|-----|------|-----|-----|--------|----------|-----|------|-----|-----|---------------------------|
|                           |      |      |    |            |     | b      | d       | e   | g    | l   | f   | b      | d        | e   | g    | l   | f   |                           |
| 2140                      | 23,5 | 44   | 45 | 515        | 114 | 8      | 28 [j6] | 60  | 31   | 45  | M10 | 10     | 32 [k6]  | 80  | 35   | 70  | M12 | 111                       |
| 2160                      | 25   | 42,5 | 45 | 615        | 145 | 10     | 38 [k6] | 80  | 41   | 70  | M12 | 14     | 48 [k6]  | 110 | 51,5 | 90  | M16 | 200                       |
| 2180                      | 22,5 | 45   | 45 | 635        | 150 | 10     | 38 [k6] | 80  | 41   | 70  | M12 | 14     | 48 [k6]  | 110 | 51,5 | 90  | M16 | 215                       |
| 2200                      | 22,5 | 45   | 45 | 765        | 170 | 14     | 48 [k6] | 110 | 51,5 | 90  | M16 | 16     | 55 [m6]  | 110 | 59   | 90  | M20 | 346                       |
| 2225                      | 22,5 | 45   | 45 | 790        | 170 | 14     | 48 [k6] | 110 | 51,5 | 90  | M16 | 16     | 55 [m6]  | 110 | 59   | 90  | M20 | 372                       |
| 2250                      | 25,5 | 42   | 45 | 955        | 222 | 18     | 60 [m6] | 140 | 64   | 110 | M20 | 20     | 70 [m6]  | 140 | 74,5 | 125 | M20 | 651                       |
| 2280                      | 22,5 | 45   | 45 | 985        | 232 | 18     | 60 [m6] | 140 | 64   | 110 | M20 | 20     | 70 [m6]  | 140 | 74,5 | 125 | M20 | 735                       |
| 2320                      | 30   | 37,5 | 45 | 1205       | 276 | 20     | 75 [m6] | 140 | 79,5 | 125 | M20 | 28     | 100 [m6] | 210 | 106  | 180 | M24 | 1285                      |
| 2360                      | 30   | 37,5 | 45 | 1245       | 286 | 20     | 75 [m6] | 140 | 79,5 | 125 | M20 | 28     | 100 [m6] | 210 | 106  | 180 | M24 | 1470                      |

### Montaj Pozisyonları ve Yağlama Miktarı [l] / Mounting Position and Lubrication [l]

| Gövde<br>Büyüküğü<br>Size | M3   | M4   | M5   | M6   | M7   | M8   |
|---------------------------|------|------|------|------|------|------|
| 2140                      |      |      |      |      |      |      |
| 2160                      | 6,2  | 6,2  | 9,7  | 11   | 9,7  | 9,7  |
| 2180                      | 10,7 | 10,7 | 17   | 19,1 | 17   | 17   |
| 2200                      | 11,4 | 11,4 | 18,2 | 20,2 | 18,2 | 18,2 |
| 2225                      | 19,3 | 19,3 | 30,4 | 34,5 | 30,4 | 30,4 |
| 2250                      | 20,3 | 20,3 | 32,5 | 36,5 | 32,5 | 32,5 |
| 2280                      | 36   | 36   | 56   | 63   | 56   | 56   |
| 2320                      | 40   | 40   | 64   | 71   | 64   | 64   |
| 2360                      | 70   | 70   | 111  | 124  | 111  | 111  |
| 2360                      | 77   | 77   | 121  | 136  | 121  | 121  |



## HE 3140 - 3360 Ölçü Tabloları/ Dimension Tables



| Gövde<br>Büyüküğü<br>Size | a   | A   | A <sub>1</sub> | B   | c   | D<br>[H7] | E   | F        | F <sub>1</sub> | H<br>[h10] | H <sub>1</sub><br>[H11] | h<br>[h10] | K  | L  | M   | N<br>[h6] | P   | Q  | U   | α°   | β°   | γ° |
|---------------------------|-----|-----|----------------|-----|-----|-----------|-----|----------|----------------|------------|-------------------------|------------|----|----|-----|-----------|-----|----|-----|------|------|----|
| 3140                      | 240 | 212 | 427            | 168 | 110 | 70        | 44  | 6xM14↓30 | 2xM12↓30       | 150        | 107                     | 125        | 18 | 23 | 265 | 230       | 300 | 4  | 205 | 23,5 | 44   | 45 |
| 3160                      | 285 | 252 | 507            | 220 | 139 | 80        | 54  | 6xM16↓32 | 2xM12↓32       | 180        | 136                     | 150        | 22 | 28 | 265 | 230       | 300 | 5  | 264 | 25   | 42,5 | 45 |
| 3180                      | 305 | 252 | 527            | 220 | 139 | 90        | 54  | 8xM16↓32 | -              | 180        | 136                     | 150        | 22 | 28 | 300 | 250       | 350 | 10 | 264 | 22,5 | 45   | 45 |
| 3200                      | 360 | 320 | 635            | 255 | 163 | 100       | 65  | 6xM20↓40 | 2xM16↓40       | 225        | 160                     | 180        | 27 | 34 | 350 | 300       | 400 | 6  | 311 | 22,5 | 45   | 45 |
| 3225                      | 385 | 320 | 660            | 255 | 163 | 110       | 65  | 6xM20↓42 | 2xM16↓42       | 225        | 160                     | 180        | 27 | 34 | 400 | 350       | 450 | 6  | 311 | 22,5 | 45   | 45 |
| 3250                      | 450 | 396 | 791            | 310 | 208 | 125       | 82  | 6xM24↓60 | 2xM20↓60       | 280        | 195                     | 225        | 33 | 42 | 500 | 450       | 550 | 22 | 380 | 25,5 | 42   | 45 |
| 3280                      | 480 | 396 | 821            | 330 | 208 | 140       | 82  | 6xM24↓60 | 2xM18↓60       | 280        | 205                     | 225        | 33 | 42 | 500 | 450       | 550 | 22 | 400 | 22,5 | 45   | 45 |
| 3320                      | 570 | 510 | 1005           | 406 | 254 | 160       | 100 | 8xM30↓60 | -              | 355        | 251                     | 280        | 39 | 52 | 600 | 550       | 660 | 20 | 490 | 30   | 37,5 | 45 |
| 3360                      | 610 | 510 | 1045           | 421 | 264 | 180       | 100 | 8xM30↓60 | -              | 355        | 261                     | 280        | 39 | 52 | 600 | 550       | 660 | 20 | 505 | 30   | 37,5 | 45 |

| Gövde<br>Büyüküğü<br>Size | W<br>[h10] | Z   | i > 70 |         |     |      |    |     |  | 70 > i > 30 |         |     |      |     |     |  | i < 30 |         |     |      |     |     |  | Ağırlık<br>Weight<br>[kg] |
|---------------------------|------------|-----|--------|---------|-----|------|----|-----|--|-------------|---------|-----|------|-----|-----|--|--------|---------|-----|------|-----|-----|--|---------------------------|
|                           |            |     | b      | d       | e   | g    | l  | f   |  | b           | d       | e   | g    | l   | f   |  | b      | d       | e   | g    | l   | f   |  |                           |
| 3140                      | 515        | 114 | 6      | 19 [j6] | 40  | 21,5 | 36 | M6  |  | 8           | 24 [j6] | 50  | 27   | 45  | M8  |  | 8      | 24 [j6] | 50  | 27   | 45  | M8  |  | 117                       |
| 3160                      | 615        | 145 | 8      | 24 [j6] | 50  | 27   | 45 | M8  |  | 8           | 28 [j6] | 60  | 31   | 45  | M10 |  | 8      | 28 [j6] | 60  | 31   | 45  | M10 |  | 205                       |
| 3180                      | 635        | 150 | 8      | 24 [j6] | 50  | 27   | 45 | M8  |  | 8           | 28 [j6] | 60  | 31   | 45  | M10 |  | 8      | 28 [j6] | 60  | 31   | 45  | M10 |  | 222                       |
| 3200                      | 765        | 170 | 10     | 32 [k6] | 80  | 35   | 70 | M12 |  | 12          | 42 [k6] | 110 | 45   | 90  | M16 |  | 12     | 42 [k6] | 110 | 45   | 90  | M16 |  | 360                       |
| 3225                      | 790        | 170 | 10     | 32 [k6] | 80  | 35   | 70 | M12 |  | 12          | 42 [k6] | 110 | 45   | 90  | M16 |  | 12     | 42 [k6] | 110 | 45   | 90  | M16 |  | 390                       |
| 3250                      | 955        | 222 | 14     | 48 [k6] | 110 | 51,5 | 90 | M16 |  | 16          | 55 [m6] | 110 | 59   | 90  | M20 |  | 16     | 55 [m6] | 110 | 59   | 90  | M20 |  | 678                       |
| 3280                      | 985        | 232 | 14     | 48 [k6] | 110 | 51,5 | 90 | M16 |  | 16          | 55 [m6] | 110 | 59   | 90  | M20 |  | 16     | 55 [m6] | 110 | 59   | 90  | M20 |  | 770                       |
| 3320                      | 1205       | 276 | 16     | 55 [m6] | 110 | 59   | 90 | M20 |  | 20          | 70 [m6] | 140 | 74,5 | 125 | M20 |  | 20     | 70 [m6] | 140 | 74,5 | 125 | M20 |  | 1345                      |
| 3360                      | 1245       | 286 | 16     | 55 [m6] | 110 | 59   | 90 | M20 |  | 18          | 65 [m6] | 140 | 69   | 110 | M20 |  | 20     | 75 [m6] | 140 | 79,5 | 125 | M20 |  | 1550                      |

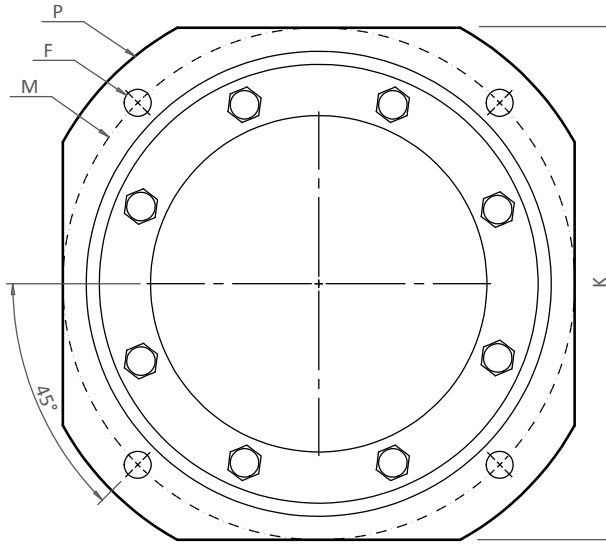
### Montaj Pozisyonları ve Yağlama Miktarı [l] / Mounting Position and Lubrication [l]

| Gövde<br>Büyüküğü<br>Size | M3   | M4   | M5   | M6   | M7   | M8   |
|---------------------------|------|------|------|------|------|------|
| 3140                      |      |      |      |      |      |      |
| 3160                      | 6,2  | 9,7  | 9,7  | 9,7  | 9,7  | 9,7  |
| 3180                      | 11   | 17   | 17   | 17   | 17   | 17   |
| 3200                      | 11,3 | 18,2 | 18,2 | 18,2 | 18,2 | 18,2 |
| 3225                      | 19,3 | 31   | 31   | 31   | 31   | 31   |
| 3250                      | 20,3 | 33   | 33   | 33   | 33   | 33   |
| 3280                      | 36   | 56   | 56   | 56   | 56   | 56   |
| 3320                      | 40   | 64   | 64   | 64   | 64   | 64   |
| 3360                      | 70   | 111  | 111  | 111  | 111  | 111  |
| 3360                      | 77   | 121  | 121  | 121  | 121  | 121  |

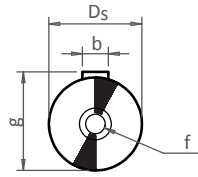


**063-140 Çıkış Mili Opsiyonu / Output Shaft Configuration**

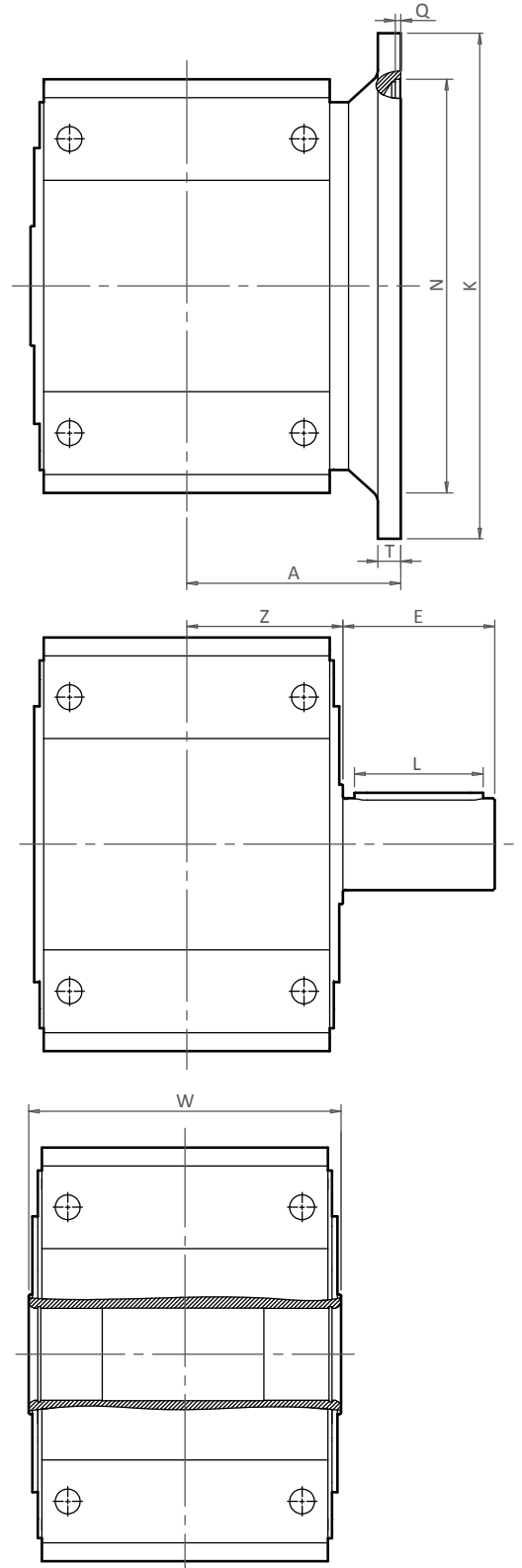
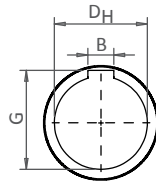
**FR  
FL  
FD**



**DR  
DL  
DD**



**HS**



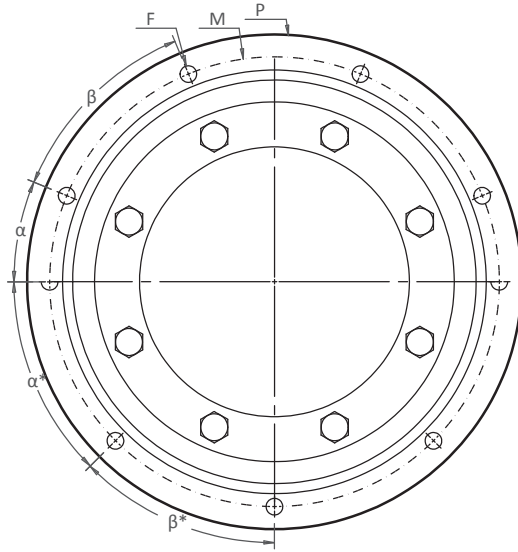
| Gövde<br>Büyüküğü<br>Size | A   | B<br>[JS9] | b<br>[h9] | D <sub>H</sub><br>[H7] | D <sub>S</sub> | E   | F    | f      | G     | g    | K   | L  | M   | N<br>[H7] | P   | Q   | T  | W     | Z     |
|---------------------------|-----|------------|-----------|------------------------|----------------|-----|------|--------|-------|------|-----|----|-----|-----------|-----|-----|----|-------|-------|
| 63                        | 105 | 8          | 8         | 30                     | 30 [h7]        | 58  | 12   | M10X25 | 32,7* | 33   | 152 | 45 | 165 | 130       | 200 | 4,5 | 14 | 135,5 | 67,8  |
| 80                        | 119 | 10         | 10        | 38                     | 38 [h7]        | 58  | 14,5 | M12X30 | 40,7* | 41   | 196 | 50 | 215 | 180       | 250 | 5   | 16 | 163   | 81,5  |
| 100                       | 139 | 14         | 14        | 48                     | 48 [h7]        | 82  | 14,5 | M16X38 | 51,8  | 51,5 | 248 | 70 | 265 | 230       | 300 | 5   | 18 | 193   | 96,5  |
| 125                       | 157 | 18         | 18        | 60                     | 60 [h7]        | 105 | 18,5 | M20X44 | 64,4  | 64   | 290 | 90 | 300 | 250       | 350 | 5   | 20 | 226   | 113   |
| 140                       | 168 | 20         | 20        | 70                     | 70 [j6]        | 105 | 18,5 | M20X44 | 74,9  | 74,5 | 350 | 90 | 350 | 300       | 400 | 5   | 22 | 227   | 113,5 |

\* Ölçü standart değildir. \ \* Values are not standard

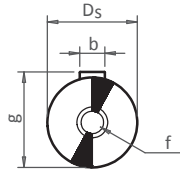


## 160-360 Çıkış Mili Opsiyonu / Output Shaft Configuration

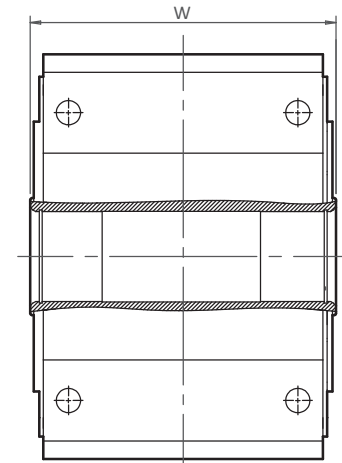
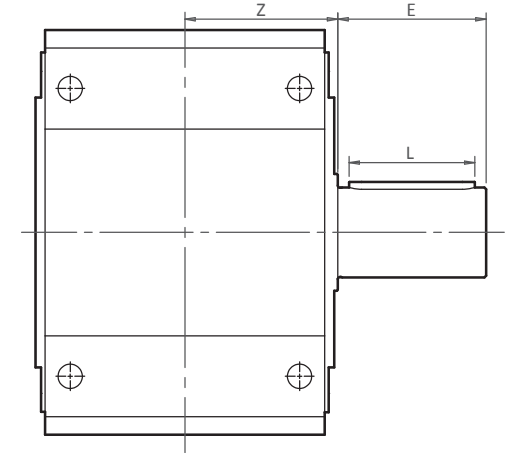
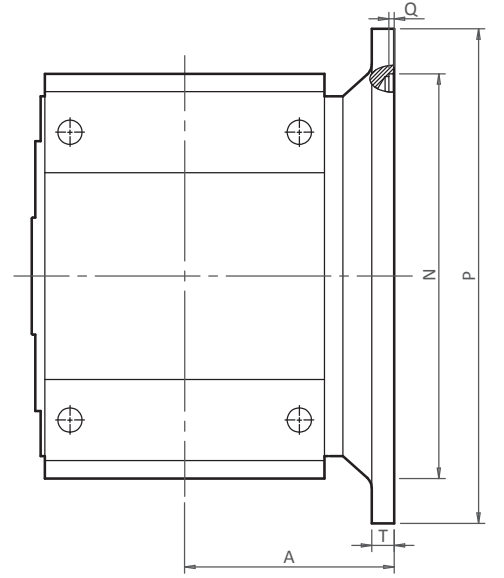
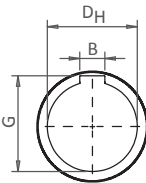
FR  
FL  
FD



DR  
DL  
DD



HS



| Gövde<br>Büyüküğü<br>Size | A   | B<br>[JS9] | b<br>[h9] | D <sub>H</sub><br>[H7] | D <sub>S</sub><br>[j6] | E   | F    | f      | G     | g   | L   | M   | N<br>[H7] | P   | Q | T  | α°   | β°  | W   | Z   |
|---------------------------|-----|------------|-----------|------------------------|------------------------|-----|------|--------|-------|-----|-----|-----|-----------|-----|---|----|------|-----|-----|-----|
| 160                       | 199 | 22         | 22        | 80                     | 80                     | 130 | 18,5 | M20x44 | 85,4  | 85  | 110 | 400 | 350       | 450 | 5 | 22 | 22,5 | 45  | 290 | 145 |
| 180                       | 199 | 25         | 25        | 90                     | 90                     | 130 | 18,5 | M24x52 | 95,4  | 95  | 110 | 400 | 350       | 450 | 6 | 22 | 22,5 | 45  | 300 | 150 |
| 200                       | 233 | 28         | 28        | 100                    | 100                    | 165 | 18,5 | M24x52 | 106,4 | 106 | 140 | 500 | 450       | 550 | 6 | 25 | 22,5 | 45  | 340 | 170 |
| 225                       | 233 | 28         | 28        | 110                    | 110                    | 165 | 18,5 | M24x52 | 116,4 | 116 | 140 | 500 | 450       | 550 | 6 | 25 | 22,5 | 45  | 340 | 170 |
| 250                       | 280 | 32         | 32        | 125                    | 125                    | 200 | 27   | M24x52 | 132,4 | 132 | 180 | 600 | 550       | 660 | 7 | 30 | 45*  | 45* | 444 | 222 |
| 280                       | 290 | 36         | 36        | 140                    | 140                    | 200 | 27   | M30x60 | 148,4 | 148 | 180 | 600 | 550       | 660 | 7 | 30 | 45*  | 45* | 464 | 232 |
| 320                       | 355 | 40         | 40        | 160                    | 160                    | 240 | 33   | M30x60 | 169,4 | 169 | 220 | 740 | 680       | 800 | 7 | 37 | 22,5 | 45  | 552 | 276 |
| 360                       | 365 | 45         | 45        | 180                    | 180                    | 240 | 33   | M3xX60 | 190,4 | 190 | 220 | 740 | 680       | 800 | 7 | 37 | 22,5 | 45  | 571 | 286 |

\* 250-280 gövde flanş geometrisidir. \ \* Flange geometry of size 250 & 280



**ZET**  
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**AĞIR SANAYİ UYGULAMALARINDA  
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INDUSTRIAL APPLICATIONS*

**KH - MKH**  
Serisi  
Series

**HE - MHE**  
Serisi  
Series







## ■ KH Performans Tabloları / Performance Tables

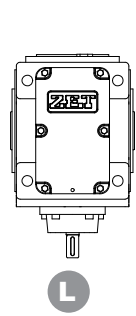
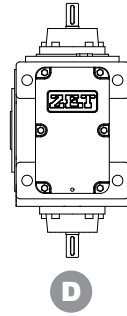
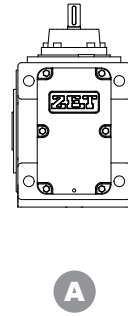
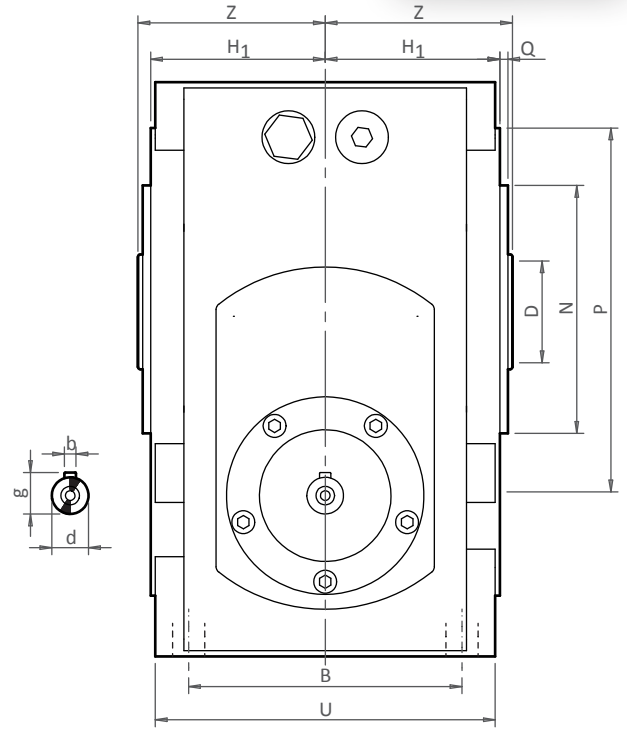
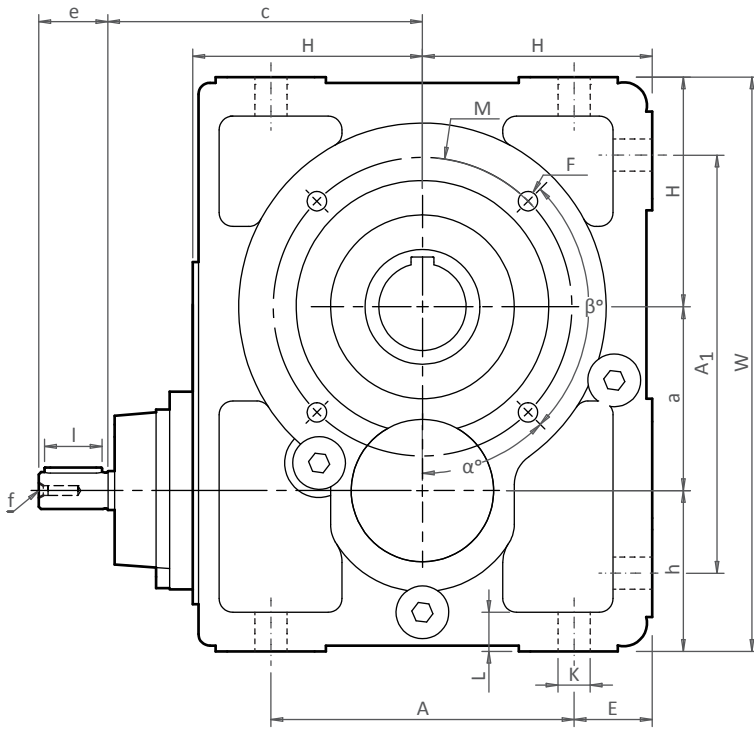
|                |                         |                          |                 | 063  |             |             | 080  |             |             | 100  |             |             | 125  |             |             | 140  |             |             | 160  |             |             |
|----------------|-------------------------|--------------------------|-----------------|------|-------------|-------------|------|-------------|-------------|------|-------------|-------------|------|-------------|-------------|------|-------------|-------------|------|-------------|-------------|
| i <sub>n</sub> | n <sub>1</sub><br>[d/d] | n <sub>2n</sub><br>[d/d] | Kademe<br>Stage | i    | Mn2<br>[Nm] | Pn2<br>[kW] | i    | Mn2<br>[Nm] | Pn2<br>[kW] | i    | Mn2<br>[Nm] | Pn2<br>[kW] | i    | Mn2<br>[Nm] | Pn2<br>[kW] | i    | Mn2<br>[Nm] | Pn2<br>[kW] | i    | Mn2<br>[Nm] | Pn2<br>[kW] |
| 6,20           | 1750                    | 282                      | 2               | 5,93 | 238         | 7,36        | 6,22 | 488         | 14,4        | 6,32 | 959         | 27,8        | 5,98 | 1991        | 61,0        | -    | -           | -           | 6,43 | 3463        | 98,7        |
| 6,20           | 1400                    | 226                      | 2               | 5,93 | 243         | 6,01        | 6,22 | 498         | 11,7        | 6,32 | 979         | 22,7        | 5,98 | 2032        | 49,8        | -    | -           | -           | 6,43 | 3534        | 80,6        |
| 6,20           | 900                     | 145                      | 2               | 5,93 | 253         | 4,02        | 6,22 | 518         | 7,85        | 6,32 | 1018        | 15,2        | 5,98 | 2113        | 33,3        | -    | -           | -           | 6,43 | 3675        | 53,9        |
| 7,80           | 1750                    | 224                      | 2               | 7,70 | 287         | 6,83        | 7,43 | 582         | 14,4        | 7,65 | 1162        | 27,8        | 7,77 | 2283        | 53,9        | 7,45 | 2483        | 61,1        | 7,93 | 4116        | 95,1        |
| 7,80           | 1400                    | 180                      | 2               | 7,70 | 293         | 5,58        | 7,43 | 594         | 11,7        | 7,65 | 1186        | 22,7        | 7,77 | 2330        | 44,0        | 7,45 | 2534        | 49,9        | 7,93 | 4200        | 77,6        |
| 7,80           | 900                     | 115                      | 2               | 7,70 | 305         | 3,73        | 7,43 | 618         | 7,84        | 7,65 | 1233        | 15,2        | 7,77 | 2423        | 29,4        | 7,45 | 2635        | 33,3        | 7,93 | 4368        | 51,9        |
| 10,0           | 1750                    | 175                      | 2               | 9,79 | 269         | 5,03        | 9,87 | 590         | 11,0        | 9,50 | 1117        | 21,6        | 10,0 | 2362        | 43,3        | 9,87 | 3000        | 55,7        | 10,2 | 4498        | 80,8        |
| 10,0           | 1400                    | 140                      | 2               | 9,79 | 274         | 4,10        | 9,87 | 602         | 8,94        | 9,50 | 1140        | 17,6        | 10,0 | 2410        | 35,3        | 9,87 | 3061        | 45,5        | 10,2 | 4590        | 66,0        |
| 10,0           | 900                     | 90,0                     | 2               | 9,79 | 285         | 2,74        | 9,87 | 626         | 5,98        | 9,50 | 1186        | 11,7        | 10,0 | 2506        | 23,6        | 9,87 | 3183        | 30,4        | 10,2 | 4774        | 44,1        |
| 12,8           | 1750                    | 137                      | 2               | 12,7 | 299         | 4,31        | 12,7 | 619         | 8,94        | 12,4 | 1121        | 16,6        | 13,2 | 2392        | 33,2        | 13,0 | 2416        | 34,1        | 12,9 | 4408        | 62,6        |
| 12,8           | 1400                    | 109                      | 2               | 12,7 | 305         | 3,52        | 12,7 | 632         | 7,30        | 12,4 | 1144        | 13,5        | 13,2 | 2441        | 27,1        | 13,0 | 2465        | 27,8        | 12,9 | 4498        | 51,1        |
| 12,8           | 900                     | 70,3                     | 2               | 12,7 | 317         | 2,35        | 12,7 | 657         | 4,88        | 12,4 | 1190        | 9,04        | 13,2 | 2539        | 18,1        | 13,0 | 2564        | 18,6        | 12,9 | 4678        | 34,2        |
| 15,5           | 1750                    | 113                      | 2               | 14,9 | 249         | 3,06        | 15,0 | 545         | 6,66        | 15,7 | 1103        | 12,9        | 15,1 | 2073        | 25,2        | 15,9 | 2883        | 33,2        | 15,8 | 4322        | 50,1        |
| 15,5           | 1400                    | 90,3                     | 2               | 14,9 | 254         | 2,50        | 15,0 | 556         | 5,43        | 15,7 | 1126        | 10,5        | 15,1 | 2115        | 20,5        | 15,9 | 2942        | 27,1        | 15,8 | 4410        | 40,9        |
| 15,5           | 900                     | 58,1                     | 2               | 14,9 | 264         | 1,67        | 15,0 | 578         | 3,63        | 15,7 | 1171        | 7,03        | 15,1 | 2200        | 13,7        | 15,9 | 3060        | 18,1        | 15,8 | 4586        | 27,4        |
| 20,0           | 1750                    | 87,5                     | 2               | 20,4 | 230         | 2,07        | 19,8 | 486         | 4,50        | 19,1 | 900         | 8,63        | 20,8 | 2034        | 17,9        | 20,4 | 2199        | 19,8        | 20,4 | 3998        | 35,9        |
| 20,0           | 1400                    | 70,0                     | 2               | 20,4 | 235         | 1,69        | 19,8 | 496         | 3,67        | 19,1 | 918         | 7,05        | 20,8 | 2075        | 14,6        | 20,4 | 2244        | 16,1        | 20,4 | 4080        | 29,3        |
| 20,0           | 900                     | 45,0                     | 2               | 20,4 | 244         | 1,13        | 19,8 | 516         | 2,46        | 19,1 | 955         | 4,71        | 20,8 | 2158        | 9,78        | 20,4 | 2334        | 10,8        | 20,4 | 4243        | 19,6        |
| 25,0           | 1750                    | 70,0                     | 2               | 24,0 | 223         | 1,71        | 23,6 | 541         | 4,20        | 24,1 | 896         | 6,81        | 23,8 | 1979        | 15,2        | 25,0 | 2450        | 18,0        | 25,0 | 3920        | 28,7        |
| 25,0           | 1400                    | 56,0                     | 2               | 24,0 | 228         | 1,39        | 23,6 | 552         | 3,43        | 24,1 | 914         | 5,56        | 23,8 | 2019        | 12,4        | 25,0 | 2500        | 14,7        | 25,0 | 4000        | 23,5        |
| 25,0           | 900                     | 36,0                     | 2               | 24,0 | 237         | 0,93        | 23,6 | 574         | 2,29        | 24,1 | 951         | 3,72        | 23,8 | 2100        | 8,31        | 25,0 | 2600        | 9,80        | 25,0 | 4160        | 15,7        |
| 26,0           | 1750                    | 67,3                     | 3               | -    | -           | -           | -    | -           | -           | -    | -           | -           | -    | -           | -           | 25,8 | 3158        | 22,4        | 24,4 | 5377        | 40,4        |
| 26,0           | 1400                    | 53,8                     | 3               | -    | -           | -           | -    | -           | -           | -    | -           | -           | -    | -           | -           | 25,8 | 3222        | 18,3        | 24,4 | 5487        | 33,0        |
| 26,0           | 900                     | 34,6                     | 3               | -    | -           | -           | -    | -           | -           | -    | -           | -           | -    | -           | -           | 25,8 | 3351        | 12,2        | 24,4 | 5706        | 22,0        |
| 32,0           | 1750                    | 54,7                     | 3               | -    | -           | -           | -    | -           | -           | -    | -           | -           | -    | -           | -           | 31,2 | 3153        | 18,5        | 31,7 | 5435        | 31,4        |
| 32,0           | 1400                    | 43,8                     | 3               | -    | -           | -           | -    | -           | -           | -    | -           | -           | -    | -           | -           | 31,2 | 3217        | 15,1        | 31,7 | 5546        | 25,7        |
| 32,0           | 900                     | 28,1                     | 3               | -    | -           | -           | -    | -           | -           | -    | -           | -           | -    | -           | -           | 31,2 | 3346        | 10,1        | 31,7 | 5768        | 17,2        |
| 42,0           | 1750                    | 41,7                     | 3               | -    | -           | -           | -    | -           | -           | -    | -           | -           | -    | -           | -           | 40,9 | 3164        | 14,2        | 41,7 | 5469        | 24,0        |
| 42,0           | 1400                    | 33,3                     | 3               | -    | -           | -           | -    | -           | -           | -    | -           | -           | -    | -           | -           | 40,9 | 3229        | 11,6        | 41,7 | 5581        | 19,6        |
| 42,0           | 900                     | 21,4                     | 3               | -    | -           | -           | -    | -           | -           | -    | -           | -           | -    | -           | -           | 40,9 | 3358        | 7,74        | 41,7 | 5804        | 13,1        |
| 52,0           | 1750                    | 33,7                     | 3               | -    | -           | -           | -    | -           | -           | -    | -           | -           | -    | -           | -           | 50,7 | 2983        | 10,8        | 53,8 | 5488        | 18,7        |
| 52,0           | 1400                    | 26,9                     | 3               | -    | -           | -           | -    | -           | -           | -    | -           | -           | -    | -           | -           | 50,7 | 3044        | 8,80        | 53,8 | 5600        | 15,3        |
| 52,0           | 900                     | 17,3                     | 3               | -    | -           | -           | -    | -           | -           | -    | -           | -           | -    | -           | -           | 50,7 | 3166        | 5,88        | 53,8 | 5824        | 10,2        |
| 64,0           | 1750                    | 27,3                     | 3               | -    | -           | -           | -    | -           | -           | -    | -           | -           | -    | -           | -           | 63,8 | 2940        | 8,44        | 61,6 | 5436        | 16,2        |
| 64,0           | 1400                    | 21,9                     | 3               | -    | -           | -           | -    | -           | -           | -    | -           | -           | -    | -           | -           | 63,8 | 3000        | 6,89        | 61,6 | 5547        | 13,2        |
| 64,0           | 900                     | 14,1                     | 3               | -    | -           | -           | -    | -           | -           | -    | -           | -           | -    | -           | -           | 63,8 | 3120        | 4,61        | 61,6 | 5769        | 8,83        |
| 76,0           | 1750                    | 23,0                     | 3               | -    | -           | -           | -    | -           | -           | -    | -           | -           | -    | -           | -           | 78,2 | 2914        | 6,83        | 75,5 | 4885        | 11,9        |
| 76,0           | 1400                    | 18,4                     | 3               | -    | -           | -           | -    | -           | -           | -    | -           | -           | -    | -           | -           | 78,2 | 2973        | 5,57        | 75,5 | 4985        | 9,7         |
| 76,0           | 900                     | 11,8                     | 3               | -    | -           | -           | -    | -           | -           | -    | -           | -           | -    | -           | -           | 78,2 | 3092        | 3,73        | 75,5 | 5184        | 6,47        |
| 86,0           | 1750                    | 20,3                     | 3               | -    | -           | -           | -    | -           | -           | -    | -           | -           | -    | -           | -           | -    | -           | -           | 84,7 | 5393        | 11,7        |
| 86,0           | 1400                    | 16,3                     | 3               | -    | -           | -           | -    | -           | -           | -    | -           | -           | -    | -           | -           | -    | -           | -           | 84,7 | 5503        | 9,52        |
| 86,0           | 900                     | 10,5                     | 3               | -    | -           | -           | -    | -           | -           | -    | -           | -           | -    | -           | -           | -    | -           | -           | 84,7 | 5723        | 6,37        |
| 102            | 1750                    | 17,2                     | 3               | -    | -           | -           | -    | -           | -           | -    | -           | -           | -    | -           | -           | 98,2 | 2944        | 5,49        | 96,9 | 5317        | 10,1        |
| 102            | 1400                    | 13,7                     | 3               | -    | -           | -           | -    | -           | -           | -    | -           | -           | -    | -           | -           | 98,2 | 3004        | 4,48        | 96,9 | 5426        | 8,21        |
| 102            | 900                     | 8,80                     | 3               | -    | -           | -           | -    | -           | -           | -    | -           | -           | -    | -           | -           | 98,2 | 3124        | 3,00        | 96,9 | 5643        | 5,49        |
| 122            | 1750                    | 14,3                     | 3               | -    | -           | -           | -    | -           | -           | -    | -           | -           | -    | -           | -           | 120  | 2888        | 4,41        | 119  | 4772        | 7,35        |
| 122            | 1400                    | 11,5                     | 3               | -    | -           | -           | -    | -           | -           | -    | -           | -           | -    | -           | -           | 120  | 2947        | 3,60        | 119  | 4869        | 6,00        |
| 122            | 900                     | 7,40                     | 3               | -    | -           | -           | -    | -           | -           | -    | -           | -           | -    | -           | -           | 120  | 3065        | 2,41        | 119  | 5064        | 4,01        |

**KH Performans Tabloları / Performance Tables**

|                |                         |                          |                 | 180  |                         |                         | 200  |                         |                         | 225  |                         |                         | 250  |                         |                         | 280  |                         |                         | 320  |                         |                         | 360  |                         |                         |
|----------------|-------------------------|--------------------------|-----------------|------|-------------------------|-------------------------|------|-------------------------|-------------------------|------|-------------------------|-------------------------|------|-------------------------|-------------------------|------|-------------------------|-------------------------|------|-------------------------|-------------------------|------|-------------------------|-------------------------|
| i <sub>n</sub> | n <sub>1</sub><br>[d/d] | n <sub>2n</sub><br>[d/d] | Kademe<br>Stage | i    | Mn <sub>2</sub><br>[Nm] | Pn <sub>2</sub><br>[kW] | i    | Mn <sub>2</sub><br>[Nm] | Pn <sub>2</sub><br>[kW] | i    | Mn <sub>2</sub><br>[Nm] | Pn <sub>2</sub><br>[kW] | i    | Mn <sub>2</sub><br>[Nm] | Pn <sub>2</sub><br>[kW] | i    | Mn <sub>2</sub><br>[Nm] | Pn <sub>2</sub><br>[kW] | i    | Mn <sub>2</sub><br>[Nm] | Pn <sub>2</sub><br>[kW] | i    | Mn <sub>2</sub><br>[Nm] | Pn <sub>2</sub><br>[kW] |
| 6,20           | 1750                    | 282                      | 2               | -    | -                       | -                       | 6,45 | 8020                    | 228                     | -    | -                       | -                       | -    | -                       | -                       | -    | -                       | -                       | 6,15 | 27930                   | 832                     | -    | -                       | -                       |
| 6,20           | 1400                    | 226                      | 2               | -    | -                       | -                       | 6,45 | 8184                    | 186                     | -    | -                       | -                       | -    | -                       | -                       | -    | -                       | -                       | 6,15 | 28500                   | 679                     | -    | -                       | -                       |
| 6,20           | 900                     | 145                      | 2               | -    | -                       | -                       | 6,45 | 8511                    | 124                     | -    | -                       | -                       | -    | -                       | -                       | -    | -                       | -                       | 6,15 | 29640                   | 454                     | -    | -                       | -                       |
| 7,80           | 1750                    | 224                      | 2               | 7,68 | 5077                    | 121                     | 8,26 | 9565                    | 212                     | -    | -                       | -                       | 7,52 | 17346                   | 423                     | 8,10 | 23030                   | 521                     | 7,50 | 32144                   | 785                     | 7,53 | 39200                   | 954                     |
| 7,80           | 1400                    | 180                      | 2               | 7,68 | 5181                    | 98,9                    | 8,26 | 9760                    | 173                     | -    | -                       | -                       | 7,52 | 17700                   | 345                     | 8,10 | 23500                   | 425                     | 7,50 | 32800                   | 641                     | 7,53 | 40000                   | 779                     |
| 7,80           | 900                     | 115                      | 2               | 7,68 | 5388                    | 66,1                    | 8,26 | 10150                   | 116                     | -    | -                       | -                       | 7,52 | 18408                   | 231                     | 8,10 | 24440                   | 284                     | 7,50 | 34112                   | 429                     | 7,53 | 41600                   | 521                     |
| 10,0           | 1750                    | 175                      | 2               | 10,2 | 5412                    | 97,2                    | 10,7 | 9678                    | 166                     | -    | -                       | -                       | 9,82 | 22618                   | 422                     | 10,3 | 26950                   | 479                     | 9,83 | 41650                   | 776                     | 10,1 | 48510                   | 880                     |
| 10,0           | 1400                    | 140                      | 2               | 10,2 | 5522                    | 79,4                    | 10,7 | 9876                    | 135                     | -    | -                       | -                       | 9,82 | 23080                   | 345                     | 10,3 | 27500                   | 391                     | 9,83 | 42500                   | 634                     | 10,1 | 49500                   | 718                     |
| 10,0           | 900                     | 90,0                     | 2               | 10,2 | 5743                    | 53,1                    | 10,7 | 10271                   | 90,5                    | -    | -                       | -                       | 9,82 | 24003                   | 230                     | 10,3 | 28600                   | 262                     | 9,83 | 44200                   | 424                     | 10,1 | 51480                   | 480                     |
| 12,8           | 1750                    | 137                      | 2               | 12,9 | 5303                    | 75,3                    | 13,2 | 9714                    | 134                     | -    | -                       | -                       | 12,6 | 19644                   | 287                     | 12,9 | 23520                   | 334                     | 12,6 | 43610                   | 634                     | 13,0 | 48510                   | 684                     |
| 12,8           | 1400                    | 109                      | 2               | 12,9 | 5411                    | 61,5                    | 13,2 | 9912                    | 110                     | -    | -                       | -                       | 12,6 | 20045                   | 234                     | 12,9 | 24000                   | 273                     | 12,6 | 44500                   | 518                     | 13,0 | 49500                   | 558                     |
| 12,8           | 900                     | 70,3                     | 2               | 12,9 | 5627                    | 41,1                    | 13,2 | 10308                   | 73,6                    | -    | -                       | -                       | 12,6 | 20847                   | 156                     | 12,9 | 24960                   | 182                     | 12,6 | 46280                   | 346                     | 13,0 | 51480                   | 373                     |
| 15,5           | 1750                    | 113                      | 2               | 15,5 | 5316                    | 62,8                    | 15,7 | 9566                    | 112                     | -    | -                       | -                       | 15,7 | 18684                   | 218                     | 16,1 | 27930                   | 318                     | 15,3 | 41748                   | 500                     | 15,1 | 53900                   | 654                     |
| 15,5           | 1400                    | 90,3                     | 2               | 15,5 | 5424                    | 51,3                    | 15,7 | 9761                    | 91,1                    | -    | -                       | -                       | 15,7 | 19065                   | 178                     | 16,1 | 28500                   | 260                     | 15,3 | 42600                   | 408                     | 15,1 | 55000                   | 534                     |
| 15,5           | 900                     | 58,1                     | 2               | 15,5 | 5641                    | 34,3                    | 15,7 | 10151                   | 61,0                    | -    | -                       | -                       | 15,7 | 19828                   | 119                     | 16,1 | 29640                   | 174                     | 15,3 | 44304                   | 273                     | 15,1 | 57200                   | 357                     |
| 20,0           | 1750                    | 87,5                     | 2               | 20,5 | 5211                    | 46,6                    | 20,7 | 7083                    | 62,7                    | -    | -                       | -                       | 19,9 | 16694                   | 154                     | 19,9 | 22540                   | 208                     | 19,8 | 32830                   | 304                     | 20,4 | 40180                   | 361                     |
| 20,0           | 1400                    | 70,0                     | 2               | 20,5 | 5317                    | 38,0                    | 20,7 | 7228                    | 51,2                    | -    | -                       | -                       | 19,9 | 17035                   | 125                     | 19,9 | 23000                   | 169                     | 19,8 | 33500                   | 248                     | 20,4 | 41000                   | 295                     |
| 20,0           | 900                     | 45,0                     | 2               | 20,5 | 5530                    | 25,4                    | 20,7 | 7517                    | 34,2                    | -    | -                       | -                       | 19,9 | 17716                   | 84                      | 19,9 | 23920                   | 113                     | 19,8 | 34840                   | 166                     | 20,4 | 42640                   | 197                     |
| 25,0           | 1750                    | 70,0                     | 2               | 24,6 | 5304                    | 39,5                    | 24,6 | 7232                    | 53,9                    | -    | -                       | -                       | 24,9 | 18267                   | 135                     | 24,8 | 25676                   | 190                     | 24,1 | 35280                   | 268                     | 23,7 | 42630                   | 330                     |
| 25,0           | 1400                    | 56,0                     | 2               | 24,6 | 5412                    | 32,3                    | 24,6 | 7380                    | 44,0                    | -    | -                       | -                       | 24,9 | 18640                   | 110                     | 24,8 | 26200                   | 155                     | 24,1 | 36000                   | 219                     | 23,7 | 43500                   | 270                     |
| 25,0           | 900                     | 36,0                     | 2               | 24,6 | 5628                    | 21,6                    | 24,6 | 7675                    | 29,4                    | -    | -                       | -                       | 24,9 | 19386                   | 73                      | 24,8 | 27248                   | 104                     | 24,1 | 37440                   | 146                     | 23,7 | 45240                   | 180                     |
| 26,0           | 1750                    | 67,3                     | 3               | 24,5 | 7187                    | 53,8                    | 26,5 | 10661                   | 73,7                    | 26,6 | 13816                   | 95,2                    | 26,2 | 24451                   | 171                     | 25,6 | 32830                   | 235                     | 26,5 | 47530                   | 329                     | 27,2 | 63700                   | 429                     |
| 26,0           | 1400                    | 53,8                     | 3               | 24,5 | 7334                    | 43,9                    | 26,5 | 10879                   | 60,2                    | 26,6 | 14098                   | 77,7                    | 26,2 | 24950                   | 139                     | 25,6 | 33500                   | 192                     | 26,5 | 48500                   | 268                     | 27,2 | 65000                   | 350                     |
| 26,0           | 900                     | 34,6                     | 3               | 24,5 | 7627                    | 29,3                    | 26,5 | 11314                   | 40,2                    | 26,6 | 14662                   | 52,0                    | 26,2 | 25948                   | 93                      | 25,6 | 34840                   | 128                     | 26,5 | 50440                   | 179                     | 27,2 | 67600                   | 234                     |
| 32,0           | 1750                    | 54,7                     | 3               | 31,8 | 7192                    | 41,4                    | 32,7 | 10585                   | 59,3                    | 32,8 | 13826                   | 77,2                    | 33,6 | 24162                   | 132                     | 32,8 | 33320                   | 186                     | 32,7 | 48020                   | 269                     | 33,6 | 68600                   | 374                     |
| 32,0           | 1400                    | 43,8                     | 3               | 31,8 | 7339                    | 33,8                    | 32,7 | 10801                   | 48,4                    | 32,8 | 14108                   | 63,1                    | 33,6 | 24655                   | 108                     | 32,8 | 34000                   | 152                     | 32,7 | 49000                   | 220                     | 33,6 | 70000                   | 305                     |
| 32,0           | 900                     | 28,1                     | 3               | 31,8 | 7633                    | 22,6                    | 32,7 | 11233                   | 32,4                    | 32,8 | 14672                   | 42,1                    | 33,6 | 25641                   | 72                      | 32,8 | 35360                   | 102                     | 32,7 | 50960                   | 147                     | 33,6 | 72800                   | 204                     |
| 42,0           | 1750                    | 41,7                     | 3               | 41,8 | 7201                    | 31,6                    | 41,2 | 10710                   | 47,6                    | 41,3 | 15192                   | 67,4                    | 41,6 | 22716                   | 100                     | 42,0 | 31850                   | 139                     | 40,3 | 48020                   | 218                     | 41,3 | 58800                   | 261                     |
| 42,0           | 1400                    | 33,3                     | 3               | 41,8 | 7348                    | 25,8                    | 41,2 | 10929                   | 38,9                    | 41,3 | 15502                   | 55,0                    | 41,6 | 23180                   | 82                      | 42,0 | 32500                   | 113                     | 40,3 | 49000                   | 178                     | 41,3 | 60000                   | 213                     |
| 42,0           | 900                     | 21,4                     | 3               | 41,8 | 7642                    | 17,2                    | 41,2 | 11366                   | 26,0                    | 41,3 | 16122                   | 36,8                    | 41,6 | 24107                   | 55                      | 42,0 | 33800                   | 75,8                    | 40,3 | 50960                   | 119                     | 41,3 | 62400                   | 142                     |
| 52,0           | 1750                    | 33,7                     | 3               | 54,0 | 7194                    | 24,4                    | 53,1 | 10663                   | 36,8                    | 53,2 | 15121                   | 52,1                    | 53,7 | 24039                   | 82                      | 54,2 | 33320                   | 113                     | 52,6 | 49000                   | 171                     | 54,0 | 68600                   | 233                     |
| 52,0           | 1400                    | 26,9                     | 3               | 54,0 | 7341                    | 19,9                    | 53,1 | 10881                   | 30,0                    | 53,2 | 15430                   | 42,5                    | 53,7 | 24530                   | 67                      | 54,2 | 34000                   | 92,0                    | 52,6 | 50000                   | 139                     | 54,0 | 70000                   | 190                     |
| 52,0           | 900                     | 17,3                     | 3               | 54,0 | 7635                    | 13,3                    | 53,1 | 11316                   | 20,1                    | 53,2 | 16047                   | 28,4                    | 53,7 | 25511                   | 45                      | 54,2 | 35360                   | 61,5                    | 52,6 | 52000                   | 93,0                    | 54,0 | 72800                   | 127                     |
| 64,0           | 1750                    | 27,3                     | 3               | 61,8 | 7175                    | 21,3                    | 61,8 | 10598                   | 31,4                    | 61,9 | 14570                   | 43,1                    | 64,0 | 23618                   | 68                      | 64,5 | 33320                   | 94,7                    | 65,7 | 49000                   | 137                     | 67,5 | 68600                   | 186                     |
| 64,0           | 1400                    | 21,9                     | 3               | 61,8 | 7321                    | 17,4                    | 61,8 | 10814                   | 25,7                    | 61,9 | 14867                   | 35,2                    | 64,0 | 24100                   | 55                      | 64,5 | 34000                   | 77,3                    | 65,7 | 50000                   | 112                     | 67,5 | 70000                   | 152                     |
| 64,0           | 900                     | 14,1                     | 3               | 61,8 | 7614                    | 11,6                    | 61,8 | 11247                   | 17,2                    | 61,9 | 15462                   | 23,5                    | 64,0 | 25064                   | 37                      | 64,5 | 35360                   | 51,7                    | 65,7 | 52000                   | 74,6                    | 67,5 | 72800                   | 102                     |
| 76,0           | 1750                    | 23,0                     | 3               | 74,3 | 7174                    | 17,7                    | 73,6 | 10100                   | 25,2                    | 74,8 | 14664                   | 35,9                    | 80,0 | 17861                   | 41                      | 79,7 | 33810                   | 77,7                    | 79,7 | 42630                   | 98,0                    | 78,6 | 63700                   | 149                     |
| 76,0           | 1400                    | 18,4                     | 3               | 74,3 | 7320                    | 14,4                    | 73,6 | 10306                   | 20,5                    | 74,8 | 14963                   | 29,3                    | 80,0 | 18225                   | 33                      | 79,7 | 34500                   | 63,5                    | 79,7 | 43500                   | 80,0                    | 78,6 | 65000                   | 121                     |
| 76,0           | 900                     | 11,8                     | 3               | 74,3 | 7613                    | 9,66                    | 73,6 | 10718                   | 13,7                    | 74,8 | 15562                   | 19,6                    | 80,0 | 18954                   | 22                      | 79,7 | 35880                   | 42,4                    | 79,7 | 45240                   | 53,5                    | 78,6 | 67600                   | 81,1                    |
| 86,0           | 1750                    | 20,3                     | 3               | 84,9 | 7170                    | 15,5                    | 84,3 | 10734                   | 23,3                    | 84,5 | 14898                   | 32,3                    | 84,0 | 20021                   | 44                      | 84,0 | 28910                   | 63,1                    | 84,4 | 49000                   | 106                     | 86,7 | 58800                   | 124                     |
| 86,0           | 1400                    | 16,3                     | 3               | 84,9 | 7316                    | 12,6                    | 84,3 | 10953                   | 19,1                    | 84,5 | 15202                   | 26,4                    | 84,0 | 20430                   | 36                      | 84,0 | 29500                   | 51,5                    | 84,4 | 50000                   | 86,9                    | 86,7 | 60000                   | 101                     |
| 86,0           | 900                     | 10,5                     | 3               | 84,9 | 7609                    | 8,45                    | 84,3 | 11391                   | 12,7                    | 84,5 | 15810                   | 17,6                    | 84,0 | 21247                   | 24                      | 84,0 | 30680                   | 34,4                    | 84,4 | 52000                   | 58,1                    | 86,7 | 62400                   | 67,8                    |
| 102            | 1750                    | 17,2                     | 3               | 97,1 | 7159                    | 13,5                    | 98,1 | 10574                   | 19,8                    | 98,3 | 14454                   | 26,9                    | 100  | 23892                   | 44                      | 101  | 31850                   | 57,8                    | 106  | 49000                   | 84,7                    | 108  | 66640                   | 113                     |
| 102            | 1400                    | 13,7                     | 3               | 97,1 | 7305                    | 11,0                    | 98,1 | 10790                   | 16,1                    | 98,3 | 14749                   | 22,0                    | 100  | 24380                   | 36                      | 101  | 32500                   | 47,2                    | 106  | 50000                   | 69,2                    | 108  | 68000                   | 92,3                    |
| 102            | 900                     | 8,80                     | 3               | 97,1 | 7597                    | 7,37                    | 98,1 | 11222                   | 10,8                    | 98,3 | 15339                   | 14,7                    | 100  | 25355                   | 24                      | 101  | 33800                   | 31,5                    | 106  | 52000                   | 46,2                    | 108  | 70720                   | 61,7                    |
| 122            | 1750                    | 14,3                     | 3               | 117  | 7157                    | 11,2                    | 117  | 10077                   | 15,8                    | 119  | 14547                   | 22,4                    | 125  | 19022                   | 28                      | 125  | 27930                   | 40,9                    | 128  | 42630                   | 61,0                    | 126  | 59780                   | 86,9                    |
| 122            | 1400                    | 11,5                     | 3               | 117  | 7303                    | 9,15                    | 117  | 10283                   | 12,9                    | 119  | 14844                   | 18,3                    | 125  | 19410                   | 23                      | 125  | 28500                   | 33,4                    | 128  | 43500                   | 49,8                    | 126  | 61000                   | 71,0                    |
| 122            | 900                     | 7,40                     | 3               | 117  | 7595                    | 6,12                    | 117  | 10694                   | 8,61                    | 119  | 15438                   | 12,2                    | 125  | 20186                   | 15                      | 125  | 29640                   | 22,4                    | 128  | 45240                   | 33,3                    | 126  | 63440                   | 47,4                    |



## KH 2063 - 2100 Ölçü Tabloları / Dimension Tables



| Gövde Büyüklüğü<br>Size | a   | A   | A <sub>1</sub> | B   | c   | D<br>[H7] | E  | F        | H<br>[h10] | H <sub>1</sub><br>[H11] | h<br>[h10] | K  | L  | M   | N<br>[h6] | P   | Q | U   |
|-------------------------|-----|-----|----------------|-----|-----|-----------|----|----------|------------|-------------------------|------------|----|----|-----|-----------|-----|---|-----|
| 2063                    | 63  | 102 | 147            | 100 | 120 | 30        | 29 | 4xM8↓16  | 80         | 64                      | 62         | 12 | 14 | 100 | 80        | 120 | 3 | 124 |
| 2080                    | 80  | 132 | 182            | 119 | 137 | 38        | 34 | 4xM10↓18 | 100        | 76                      | 70         | 14 | 17 | 130 | 110       | 160 | 4 | 148 |
| 2100                    | 100 | 172 | 227            | 144 | 168 | 48        | 39 | 4xM12↓24 | 125        | 91                      | 80         | 18 | 20 | 165 | 130       | 200 | 4 | 178 |

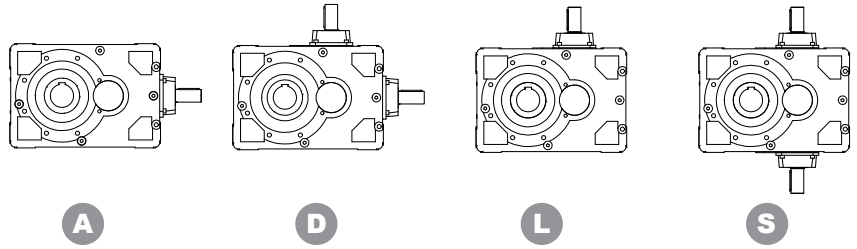
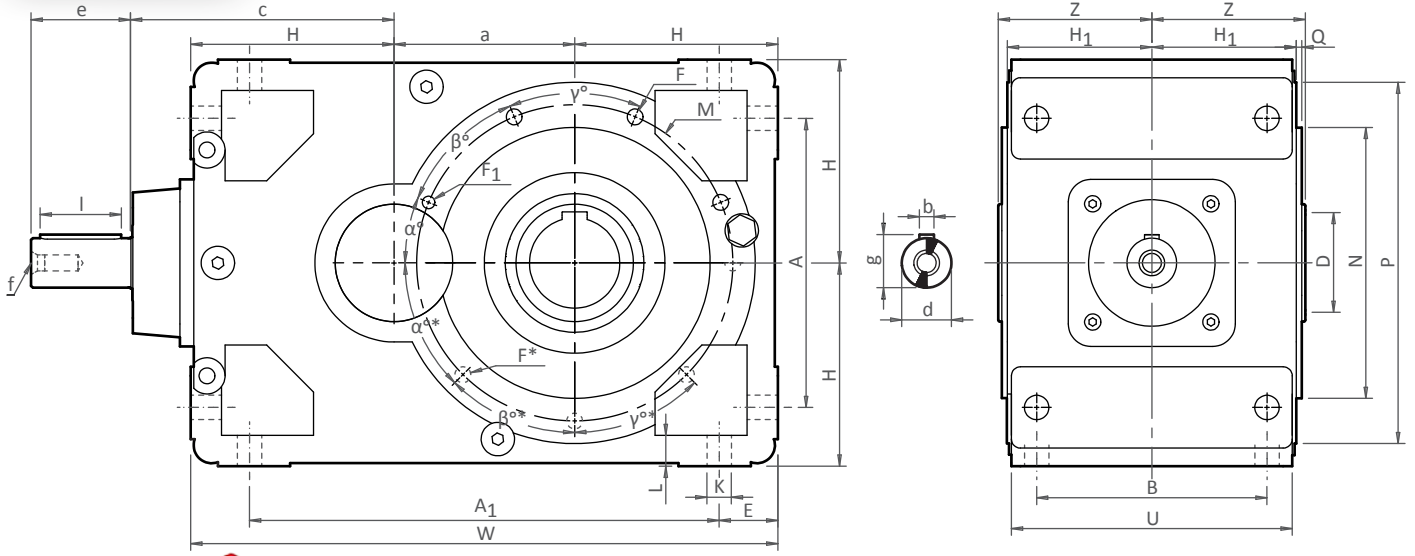
| Gövde Büyüklüğü<br>Size | α° | β° | W<br>[h10] | Z  | i > 17 |         |    |      |    |    | 17 > i > 11 |         |    |      |    |    | 11 > i |         |    |      |    |    | Ağırlık<br>Weight<br>[kg] |
|-------------------------|----|----|------------|----|--------|---------|----|------|----|----|-------------|---------|----|------|----|----|--------|---------|----|------|----|----|---------------------------|
|                         |    |    |            |    | b      | d       | e  | g    | l  | f  | b           | d       | e  | g    | l  | f  | b      | d       | e  | g    | l  | f  |                           |
| 2063                    | 45 | 90 | 205        | 68 | 4      | 11 [j6] | 23 | 12,5 | 18 | M4 | 5           | 14 [j6] | 30 | 16   | 25 | M5 | 5      | 16 [j6] | 30 | 18   | 25 | 25 | 15                        |
| 2080                    | 45 | 90 | 250        | 82 | 5      | 14 [j6] | 30 | 16   | 25 | M5 | 5           | 16 [j6] | 30 | 18   | 25 | M5 | 6      | 19 [j6] | 40 | 21,5 | 36 | 36 | 27                        |
| 2100                    | 45 | 90 | 305        | 97 | 5      | 16 [j6] | 30 | 18   | 25 | M5 | 6           | 19 [j6] | 40 | 21,5 | 36 | M6 | 8      | 24 [j6] | 50 | 27   | 45 | 45 | 50                        |

## Montaj Pozisyonları ve Yağlama Miktarı [l] / Mounting Position and Lubrication [l]

| Gövde Büyüklüğü<br>Size | M3  | M4  | M5  | M6  | M7  | M8  |
|-------------------------|-----|-----|-----|-----|-----|-----|
| 2063                    |     |     |     |     |     |     |
| 2080                    | 0,9 | 1,1 | 0,9 | 0,9 | 1,1 | 1,1 |
| 2100                    | 1,5 | 2,2 | 1,5 | 1,5 | 2   | 2   |
| 2100                    | 2,9 | 4,2 | 3,2 | 3,2 | 3,9 | 3,9 |



**KH 2125 - 2360 Ölçü Tabloları / Dimension Tables**



| Gövde<br>Büyüküğü<br>Size | a   | A   | A <sub>1</sub> | B   | D<br>[H7] | E   | F         | F <sub>1</sub> | H<br>[h10] | H <sub>1</sub><br>[H11] | K  | L  | M   | N<br>[h6] | P   | Q  | U   |
|---------------------------|-----|-----|----------------|-----|-----------|-----|-----------|----------------|------------|-------------------------|----|----|-----|-----------|-----|----|-----|
| 2125                      | 125 | 212 | 337            | 168 | 60        | 44  | 7xM12↓24* | -              | 150        | 107                     | 18 | 23 | 215 | 180       | 250 | 4  | 207 |
| 2140                      | 140 | 212 | 352            | 168 | 70        | 44  | 6xM14↓30  | 2xM12↓30       | 150        | 107                     | 18 | 23 | 265 | 230       | 300 | 4  | 205 |
| 2160                      | 160 | 252 | 412            | 220 | 80        | 54  | 6xM16↓32  | 2xM12↓32       | 180        | 136                     | 22 | 28 | 265 | 230       | 300 | 5  | 264 |
| 2180                      | 180 | 252 | 432            | 220 | 90        | 54  | 8xM16↓32  | -              | 180        | 136                     | 22 | 28 | 300 | 250       | 350 | 10 | 264 |
| 2200                      | 200 | 320 | 520            | 255 | 100       | 65  | 6xM20↓40  | 2xM16↓40       | 225        | 160                     | 27 | 34 | 350 | 300       | 400 | 6  | 311 |
| 2250                      | 250 | 396 | 646            | 310 | 125       | 82  | 6xM24↓60  | 2xM20↓60       | 280        | 195                     | 33 | 42 | 500 | 450       | 550 | 22 | 380 |
| 2280                      | 280 | 396 | 676            | 330 | 140       | 82  | 6xM24↓60  | 2xM18↓60       | 280        | 205                     | 33 | 42 | 500 | 450       | 550 | 22 | 400 |
| 2320                      | 320 | 510 | 830            | 406 | 160       | 100 | 8xM30↓60  | -              | 355        | 251                     | 39 | 52 | 600 | 550       | 660 | 20 | 490 |
| 2360                      | 360 | 510 | 870            | 421 | 180       | 100 | 8xM30↓48  | -              | 355        | 261                     | 39 | 52 | 600 | 550       | 660 | 20 | 505 |

| Gövde<br>Büyüklüğü<br>Size | α°   | β°   | γ°  | W<br>[h10] | Z   | i > 17 |     |         |     |      |     |     |    | 17 > i > 11 |         |     |    |     |     |    |     | i < 11  |     |      |     |     |      |  |  | Ağırlık<br>Weight<br>[kg] |
|----------------------------|------|------|-----|------------|-----|--------|-----|---------|-----|------|-----|-----|----|-------------|---------|-----|----|-----|-----|----|-----|---------|-----|------|-----|-----|------|--|--|---------------------------|
|                            |      |      |     |            |     | b      | c   | d       | e   | g    | l   | f   | b  | c           | d       | e   | g  | l   | f   | b  | c   | d       | e   | g    | l   | f   |      |  |  |                           |
| 2125                       | 45*  | 45*  | 45* | 425        | 113 | 6      | 208 | 19 [j6] | 40  | 21,5 | 36  | M6  | 8  | 208         | 28 [j6] | 60  | 31 | 45  | M10 | 10 | 208 | 32 [k6] | 80  | 35   | 70  | M12 | 91   |  |  |                           |
| 2140                       | 23,5 | 44   | 45  | 440        | 114 | 6      | 208 | 19 [j6] | 40  | 21,5 | 36  | M6  | 8  | 208         | 28 [j6] | 60  | 31 | 45  | M10 | 10 | 208 | 32 [k6] | 80  | 35   | 70  | M12 | 101  |  |  |                           |
| 2160                       | 25   | 42,5 | 45  | 520        | 145 | 8      | 243 | 28 [j6] | 60  | 31   | 45  | M10 | 10 | 243         | 32 [k6] | 80  | 35 | 70  | M12 | 10 | 243 | 38 [k6] | 80  | 41   | 70  | M12 | 175  |  |  |                           |
| 2180                       | 22,5 | 45   | 45  | 540        | 150 | 8      | 243 | 28 [j6] | 60  | 31   | 45  | M10 | 10 | 243         | 32 [k6] | 80  | 35 | 70  | M12 | 10 | 243 | 38 [k6] | 80  | 41   | 70  | M12 | 197  |  |  |                           |
| 2200                       | 22,5 | 45   | 45  | 650        | 170 | 10     | 290 | 32 [k6] | 80  | 35   | 70  | M12 | 12 | 297         | 42 [k6] | 110 | 45 | 90  | M16 | 16 | 292 | 55 [m6] | 110 | 59   | 90  | M20 | 310  |  |  |                           |
| 2250                       | 25,5 | 42   | 45  | 810        | 222 | 16     | 372 | 55 [m6] | 110 | 59   | 90  | M20 | 18 | 394         | 60 [m6] | 140 | 64 | 110 | M20 | 20 | 402 | 70 [m6] | 140 | 74,5 | 125 | M20 | 618  |  |  |                           |
| 2280                       | 22,5 | 45   | 45  | 840        | 232 | 16     | 372 | 55 [m6] | 110 | 59   | 90  | M20 | 18 | 394         | 60 [m6] | 140 | 64 | 110 | M20 | 20 | 402 | 70 [m6] | 140 | 74,5 | 125 | M20 | 690  |  |  |                           |
| 2320                       | 30   | 37,5 | 45  | 1030       | 276 | 20     | 441 | 70 [m6] | 140 | 74,5 | 125 | M20 | 22 | 464         | 80 [m6] | 170 | 85 | 140 | M20 | 25 | 464 | 90 [m6] | 170 | 95   | 140 | M24 | 1200 |  |  |                           |
| 2360                       | 30   | 37,5 | 45  | 1070       | 286 | 20     | 441 | 70 [m6] | 140 | 74,5 | 125 | M20 | 22 | 464         | 80 [m6] | 170 | 85 | 140 | M20 | 25 | 464 | 90 [m6] | 170 | 95   | 140 | M24 | 1375 |  |  |                           |

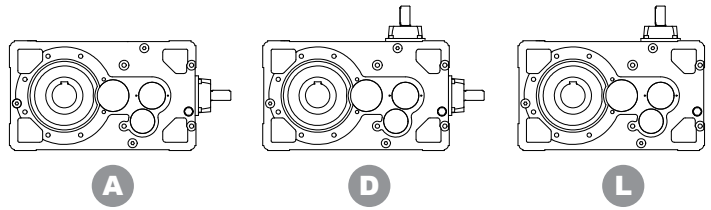
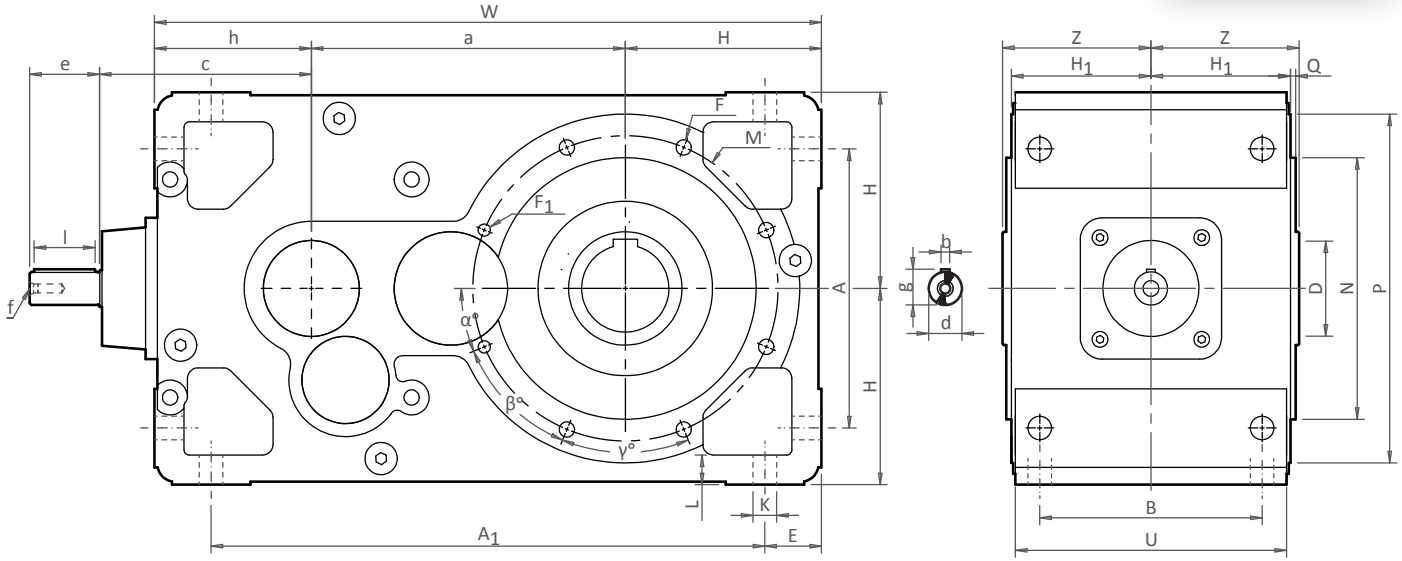
\* 125 gövde flanş geometrisidir.  
\* Flange geometry of size 125

**Montaj Pozisyonları ve Yağlama Miktarı [l] / Mounting Position and Lubrication [l]**

| Gövde<br>Büyüküğü<br>Size | M3   | M4   | M5   | M6   | M7   | M8   |
|---------------------------|------|------|------|------|------|------|
| 2125                      | 4,4  | 4,4  | 5,8  | 6,5  | 6,5  | 6,5  |
| 2140                      | 5    | 5    | 8    | 9    | 9    | 9    |
| 2160                      | 8,5  | 8,5  | 11,3 | 12,5 | 12,5 | 12,5 |
| 2180                      | 9,6  | 9,6  | 15,7 | 17,5 | 17,5 | 17,5 |
| 2200                      | 15,3 | 15,3 | 20,4 | 22,9 | 22,9 | 22,9 |
| 2250                      | 28   | 28   | 38   | 43   | 43   | 43   |
| 2280                      | 34   | 34   | 56   | 64   | 64   | 64   |
| 2320                      | 56   | 56   | 75   | 84   | 84   | 84   |
| 2360                      | 63   | 63   | 105  | 117  | 117  | 117  |



## KH 3140 - 3360 Ölçü Tabloları / Dimension Tables



| Gövde<br>Büyüküğü<br>Size | a   | A   | A <sub>1</sub> | B   | D<br>[H7] | E   | F        | F <sub>1</sub> | H<br>[h10] | H <sub>1</sub><br>[H11] | h<br>[h10] | K  | L  | M   | N<br>[h6] | P   | Q  | U   |
|---------------------------|-----|-----|----------------|-----|-----------|-----|----------|----------------|------------|-------------------------|------------|----|----|-----|-----------|-----|----|-----|
| 3140                      | 240 | 212 | 427            | 168 | 70        | 44  | 6xM14↓30 | 2xM12↓30       | 150        | 107                     | 125        | 18 | 23 | 265 | 230       | 300 | 4  | 205 |
| 3160                      | 285 | 252 | 507            | 220 | 80        | 54  | 6xM16↓32 | 2xM12↓32       | 180        | 136                     | 150        | 22 | 28 | 265 | 230       | 300 | 5  | 264 |
| 3180                      | 305 | 252 | 527            | 220 | 90        | 54  | 8xM16↓32 | -              | 180        | 136                     | 150        | 22 | 28 | 300 | 250       | 350 | 10 | 264 |
| 3200                      | 360 | 320 | 635            | 255 | 100       | 65  | 6xM20↓40 | 2xM16↓40       | 225        | 160                     | 180        | 27 | 34 | 350 | 300       | 400 | 6  | 311 |
| 3225                      | 385 | 320 | 660            | 255 | 110       | 65  | 6xM20↓42 | 2xM16↓42       | 225        | 160                     | 180        | 27 | 34 | 400 | 350       | 450 | 6  | 311 |
| 3250                      | 450 | 396 | 791            | 310 | 125       | 82  | 6xM24↓60 | 2xM20↓60       | 280        | 195                     | 225        | 33 | 42 | 500 | 450       | 550 | 22 | 380 |
| 3280                      | 480 | 396 | 821            | 330 | 140       | 82  | 6xM24↓60 | 2xM18↓60       | 280        | 205                     | 225        | 33 | 42 | 500 | 450       | 550 | 22 | 400 |
| 3320                      | 570 | 510 | 1005           | 406 | 160       | 100 | 8xM30↓60 | -              | 355        | 251                     | 280        | 39 | 52 | 600 | 550       | 660 | 20 | 490 |
| 3360                      | 610 | 510 | 1045           | 421 | 180       | 100 | 8xM30↓60 | -              | 355        | 261                     | 280        | 39 | 52 | 600 | 550       | 660 | 20 | 505 |

| Gövde<br>Büyüklüğü<br>Size | α°   | β°   | γ° | W<br>[h10] | Z   | i > 80 |     |         |     |      |    |     |    | 80 > i > 40 |         |     |      |    |     |    |     | i < 40  |     |      |     |     |      |  |  | Ağırlık<br>Weight<br>[kg] |
|----------------------------|------|------|----|------------|-----|--------|-----|---------|-----|------|----|-----|----|-------------|---------|-----|------|----|-----|----|-----|---------|-----|------|-----|-----|------|--|--|---------------------------|
|                            |      |      |    |            |     | b      | c   | d       | e   | g    | l  | f   | b  | c           | d       | e   | g    | l  | f   | b  | c   | d       | e   | g    | l   | f   |      |  |  |                           |
| 3140                       | 23,5 | 44   | 45 | 515        | 114 | 5      | 168 | 16 [j6] | 30  | 18   | 25 | M5  | 6  | 168         | 19 [j6] | 40  | 21,5 | 36 | M6  | 8  | 168 | 24 [j6] | 50  | 27   | 45  | M8  | 118  |  |  |                           |
| 3160                       | 25   | 42,5 | 45 | 615        | 145 | 6      | 208 | 19 [j6] | 40  | 21,5 | 36 | M6  | 8  | 208         | 28 [j6] | 60  | 31   | 45 | M10 | 10 | 208 | 32 [k6] | 80  | 35   | 70  | M12 | 213  |  |  |                           |
| 3180                       | 22,5 | 45   | 45 | 635        | 150 | 6      | 208 | 19 [j6] | 40  | 21,5 | 36 | M6  | 8  | 208         | 28 [j6] | 60  | 31   | 45 | M10 | 10 | 208 | 32 [k6] | 80  | 35   | 70  | M12 | 230  |  |  |                           |
| 3200                       | 22,5 | 45   | 45 | 765        | 170 | 8      | 243 | 28 [j6] | 60  | 31   | 45 | M10 | 10 | 243         | 32 [k6] | 80  | 35   | 70 | M12 | 10 | 243 | 38 [k6] | 80  | 41   | 70  | M12 | 360  |  |  |                           |
| 3225                       | 22,5 | 45   | 45 | 790        | 170 | 8      | 243 | 28 [j6] | 60  | 31   | 45 | M10 | 10 | 243         | 32 [k6] | 80  | 35   | 70 | M12 | 10 | 243 | 38 [k6] | 80  | 41   | 70  | M12 | 400  |  |  |                           |
| 3250                       | 25,5 | 42   | 45 | 955        | 222 | 10     | 290 | 32 [k6] | 80  | 35   | 70 | M12 | 12 | 297         | 42 [k6] | 110 | 45   | 90 | M16 | 16 | 292 | 55 [m6] | 110 | 59   | 90  | M20 | 686  |  |  |                           |
| 3280                       | 22,5 | 45   | 45 | 985        | 232 | 10     | 290 | 32 [k6] | 80  | 35   | 70 | M12 | 12 | 297         | 42 [k6] | 110 | 45   | 90 | M16 | 16 | 292 | 55 [m6] | 110 | 59   | 90  | M20 | 770  |  |  |                           |
| 3320                       | 30   | 37,5 | 45 | 1205       | 276 | 14     | 345 | 48 [k6] | 110 | 51,5 | 90 | M16 | 16 | 368         | 55 [m6] | 110 | 59   | 90 | M20 | 20 | 384 | 70 [m6] | 140 | 74,5 | 125 | M20 | 1350 |  |  |                           |
| 3360                       | 30   | 37,5 | 45 | 1245       | 286 | 14     | 345 | 48 [k6] | 110 | 51,5 | 90 | M16 | 16 | 368         | 55 [m6] | 110 | 59   | 90 | M20 | 20 | 384 | 70 [m6] | 140 | 74,5 | 125 | M20 | 1550 |  |  |                           |

## Montaj Pozisyonları ve Yağlama Miktarı [l] / Mounting Position and Lubrication [l]

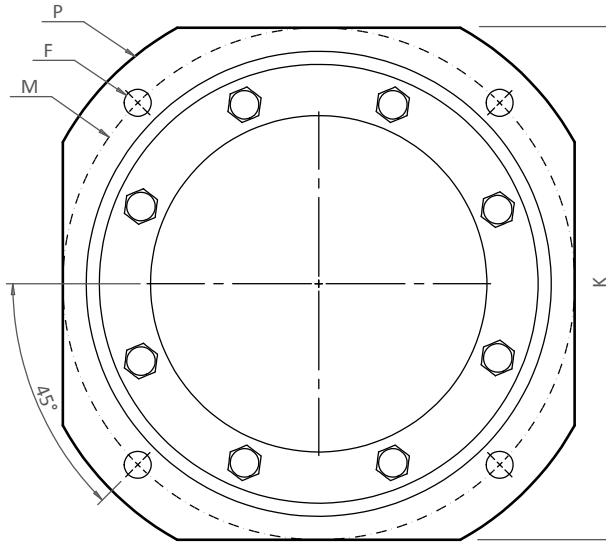
| Gövde<br>Büyüküğü<br>Size | M3   | M4   | M5   | M6   | M7   | M8   |
|---------------------------|------|------|------|------|------|------|
| 3140                      |      |      |      |      |      |      |
| 3160                      | 6,2  | 6,2  | 9,7  | 10,8 | 9,7  | 9,7  |
| 3180                      | 10,7 | 10,7 | 17,2 | 19,3 | 17,2 | 17,2 |
| 3200                      | 11,4 | 11,4 | 18,2 | 20,4 | 18,2 | 18,2 |
| 3225                      | 19,4 | 19,4 | 30,6 | 34,7 | 30,6 | 30,6 |
| 3250                      | 20,4 | 20,4 | 32,7 | 36,8 | 32,7 | 32,7 |
| 3280                      | 36   | 36   | 56   | 63   | 56   | 56   |
| 3320                      | 40   | 40   | 63,2 | 71   | 63,2 | 63,2 |
| 3360                      | 70   | 70   | 111  | 123  | 111  | 111  |
| 3360                      | 77   | 77   | 121  | 136  | 121  | 121  |



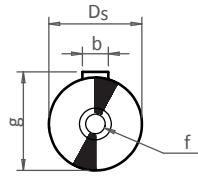


**063-140 Çıkış Mili Opsiyonu / Output Shaft Configuration**

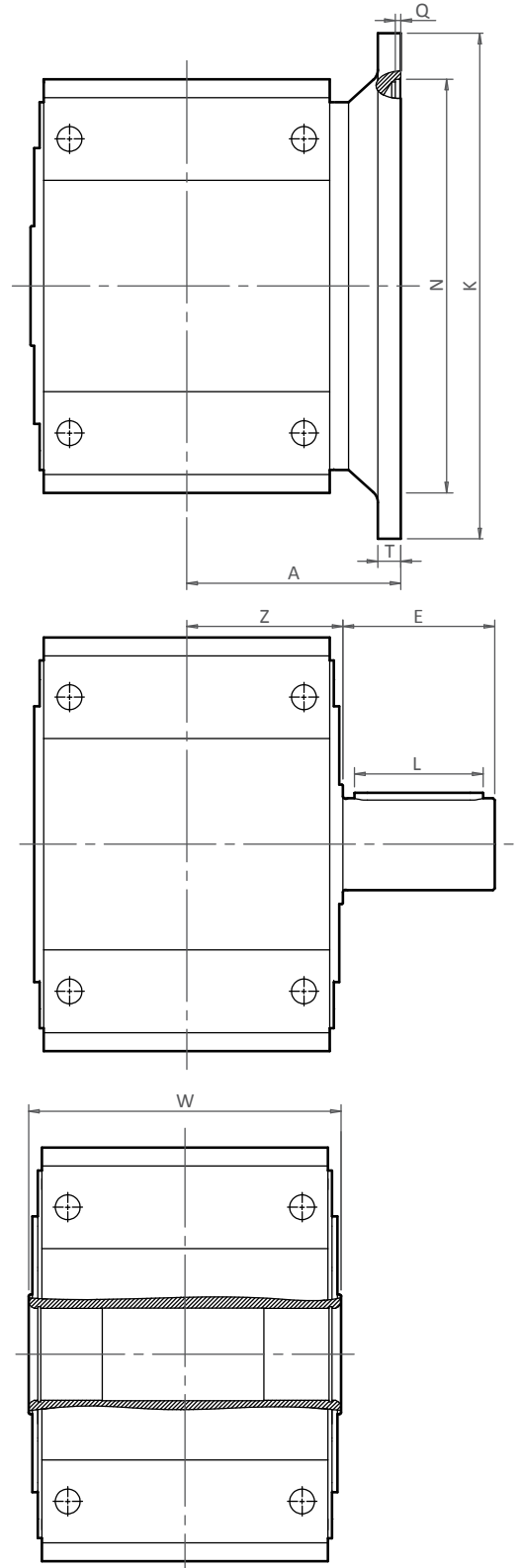
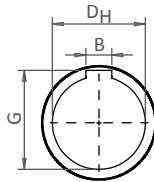
**FR  
FL  
FD**



**DR  
DL  
DD**



**HS**



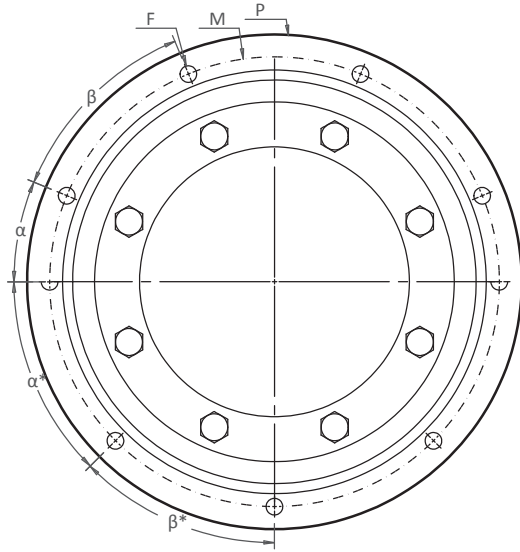
| Gövde<br>Büyüküğü<br>Size | A   | B<br>[JS9] | b<br>[h9] | D <sub>H</sub><br>[H7] | D <sub>S</sub> | E   | F    | f      | G     | g    | K   | L  | M   | N<br>[H7] | P   | Q   | T  | W     | Z     |
|---------------------------|-----|------------|-----------|------------------------|----------------|-----|------|--------|-------|------|-----|----|-----|-----------|-----|-----|----|-------|-------|
| 63                        | 105 | 8          | 8         | 30                     | 30 [h7]        | 58  | 12   | M10X25 | 32,7* | 33   | 152 | 45 | 165 | 130       | 200 | 4,5 | 14 | 135,5 | 67,8  |
| 80                        | 119 | 10         | 10        | 38                     | 38 [h7]        | 58  | 14,5 | M12X30 | 40,7* | 41   | 196 | 50 | 215 | 180       | 250 | 5   | 16 | 163   | 81,5  |
| 100                       | 139 | 14         | 14        | 48                     | 48 [h7]        | 82  | 14,5 | M16X38 | 51,8  | 51,5 | 248 | 70 | 265 | 230       | 300 | 5   | 18 | 193   | 96,5  |
| 125                       | 157 | 18         | 18        | 60                     | 60 [h7]        | 105 | 18,5 | M20X44 | 64,4  | 64   | 290 | 90 | 300 | 250       | 350 | 5   | 20 | 226   | 113   |
| 140                       | 168 | 20         | 20        | 70                     | 70 [j6]        | 105 | 18,5 | M20X44 | 74,9  | 74,5 | 350 | 90 | 350 | 300       | 400 | 5   | 22 | 227   | 113,5 |

\* Ölçü standart değildir. \ \* Values are not standard

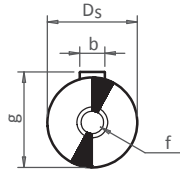


## 160-360 Çıkış Mili Opsiyonu / Output Shaft Configuration

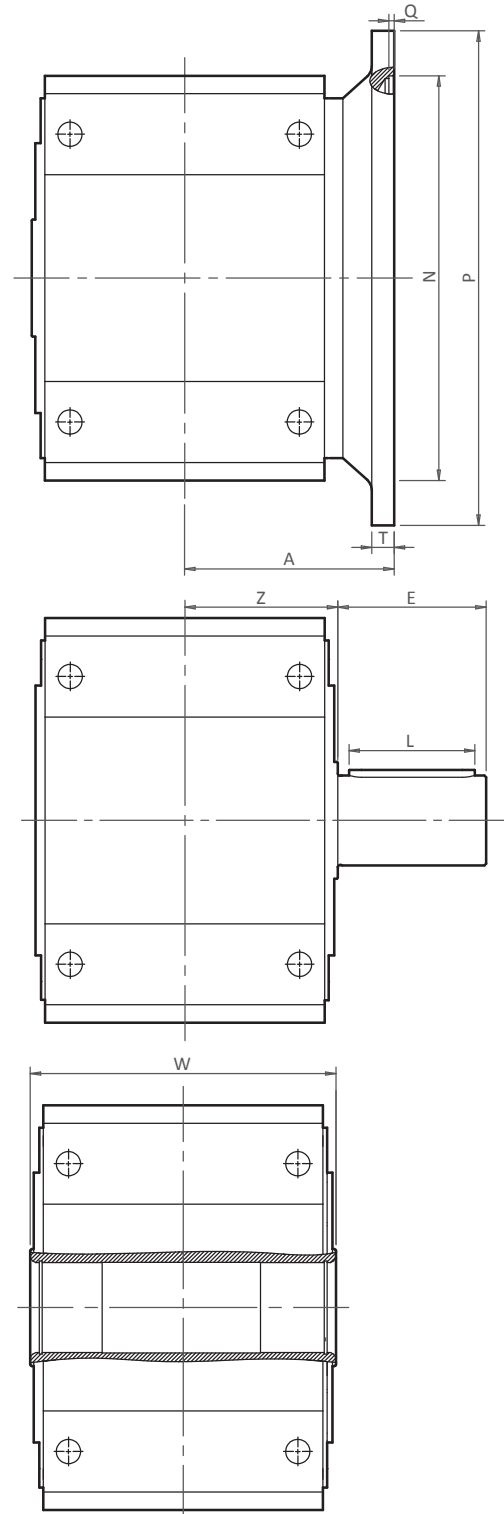
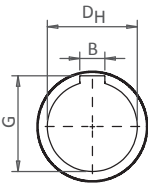
FR  
FL  
FD



DR  
DL  
DD



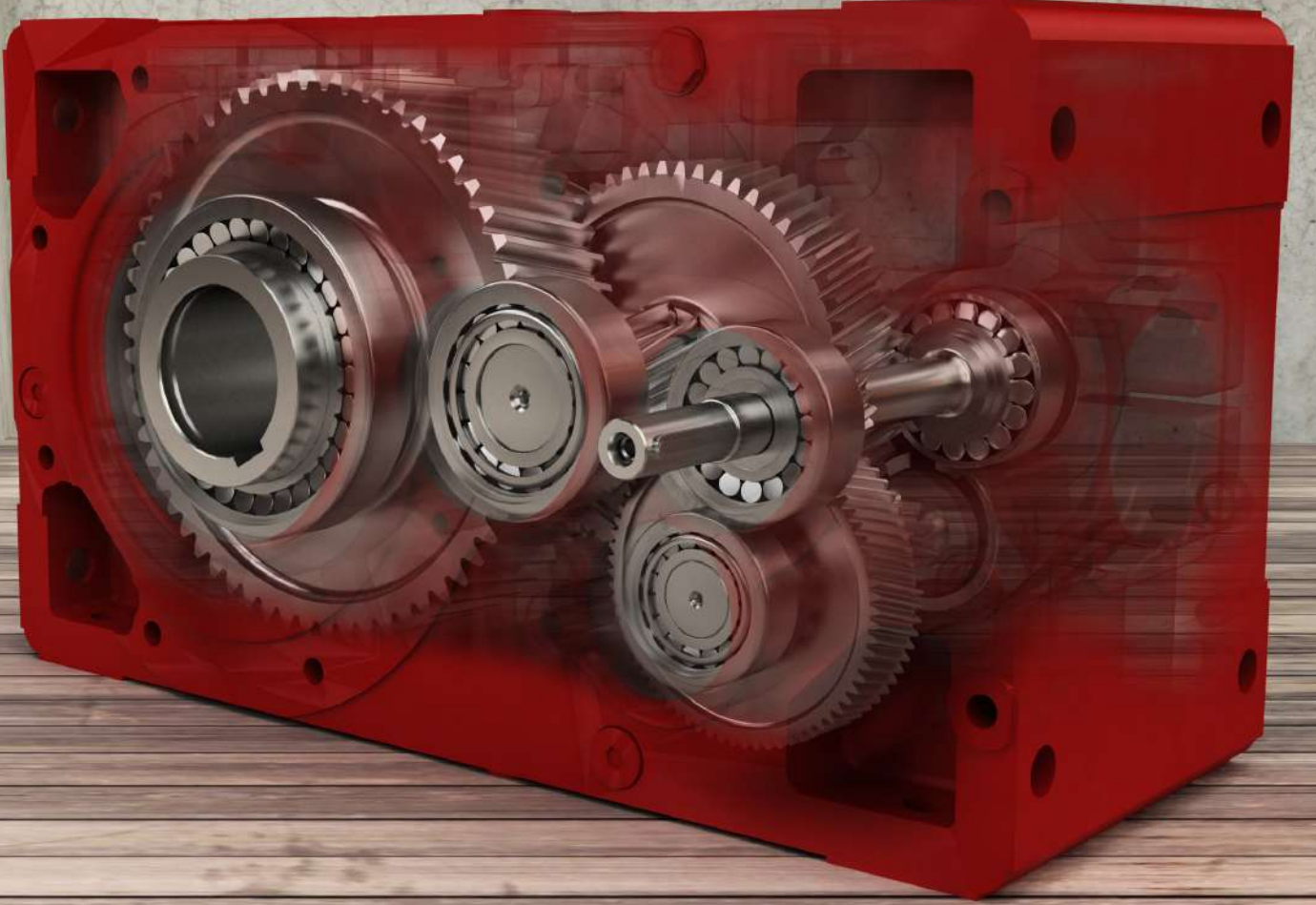
HS



| Gövde<br>Büyüküğü<br>Size | A   | B<br>[JS9] | b<br>[h9] | D <sub>H</sub><br>[H7] | D <sub>S</sub><br>[j6] | E   | F    | f      | G     | g   | L   | M   | N<br>[H7] | P   | Q | T  | α°   | β°  | W   | Z   |
|---------------------------|-----|------------|-----------|------------------------|------------------------|-----|------|--------|-------|-----|-----|-----|-----------|-----|---|----|------|-----|-----|-----|
| 160                       | 199 | 22         | 22        | 80                     | 80                     | 130 | 18,5 | M20x44 | 85,4  | 85  | 110 | 400 | 350       | 450 | 5 | 22 | 22,5 | 45  | 290 | 145 |
| 180                       | 199 | 25         | 25        | 90                     | 90                     | 130 | 18,5 | M24x52 | 95,4  | 95  | 110 | 400 | 350       | 450 | 6 | 22 | 22,5 | 45  | 300 | 150 |
| 200                       | 233 | 28         | 28        | 100                    | 100                    | 165 | 18,5 | M24x52 | 106,4 | 106 | 140 | 500 | 450       | 550 | 6 | 25 | 22,5 | 45  | 340 | 170 |
| 225                       | 233 | 28         | 28        | 110                    | 110                    | 165 | 18,5 | M24x52 | 116,4 | 116 | 140 | 500 | 450       | 550 | 6 | 25 | 22,5 | 45  | 340 | 170 |
| 250                       | 280 | 32         | 32        | 125                    | 125                    | 200 | 27   | M24x52 | 132,4 | 132 | 180 | 600 | 550       | 660 | 7 | 30 | 45*  | 45* | 444 | 222 |
| 280                       | 290 | 36         | 36        | 140                    | 140                    | 200 | 27   | M30x60 | 148,4 | 148 | 180 | 600 | 550       | 660 | 7 | 30 | 45*  | 45* | 464 | 232 |
| 320                       | 355 | 40         | 40        | 160                    | 160                    | 240 | 33   | M30x60 | 169,4 | 169 | 220 | 740 | 680       | 800 | 7 | 37 | 22,5 | 45  | 552 | 276 |
| 360                       | 365 | 45         | 45        | 180                    | 180                    | 240 | 33   | M3xX60 | 190,4 | 190 | 220 | 740 | 680       | 800 | 7 | 37 | 22,5 | 45  | 571 | 286 |

\* 250-280 gövde flanş geometrisidir. \ \* Flange geometry of size 250 & 280

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## MHE Performans Tabloları / Performance Tables

| P <sub>1</sub><br>Giriş Gücü<br>Input Power<br>[kW] | n <sub>2</sub><br>Çıkış Devri<br>Output Speed<br>[rpm] | M <sub>2</sub><br>Çıkış Momenti<br>Output Torque<br>[Nm] | f <sub>s</sub><br>Servis<br>Faktörü<br>Service<br>Factor | Redüktör<br>Gearbox | i<br>Tahvil Oranı<br>Ratio | Motor<br>Motor |
|-----------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|---------------------|----------------------------|----------------|
| <b>0,37</b>                                         | 38,1                                                   | 89                                                       | 3,03                                                     | MHE 2063            | 23,6                       | 80A6           |
|                                                     | 44,8                                                   | 76                                                       | 3,84                                                     | MHE 2063            | 20,1                       | 80A6           |
| <b>0,55</b>                                         | 38,1                                                   | 132                                                      | 2,04                                                     | MHE 2063            | 23,6                       | 80B6           |
|                                                     | 44,8                                                   | 113                                                      | 2,58                                                     | MHE 2063            | 20,1                       | 80B6           |
|                                                     | 53,3                                                   | 95                                                       | 3,08                                                     | MHE 2063            | 16,9                       | 80B6           |
|                                                     | 59,2                                                   | 85                                                       | 3,05                                                     | MHE 2063            | 23,6                       | 80A4           |
|                                                     | 69,7                                                   | 72                                                       | 3,87                                                     | MHE 2063            | 20,1                       | 80A4           |
|                                                     | 82,9                                                   | 63                                                       | 4,48                                                     | MHE 2063            | 16,9                       | 80A4           |
| <b>0,75</b>                                         | 38,1                                                   | 181                                                      | 1,49                                                     | MHE 2063            | 23,6                       | 90S6           |
|                                                     | 38,7                                                   | 178                                                      | 3,22                                                     | MHE 2080            | 23,3                       | 90S6           |
|                                                     | 44,8                                                   | 154                                                      | 1,89                                                     | MHE 2063            | 20,1                       | 90S6           |
|                                                     | 53,3                                                   | 129                                                      | 2,26                                                     | MHE 2063            | 16,9                       | 90S6           |
|                                                     | 59,2                                                   | 116                                                      | 2,24                                                     | MHE 2063            | 23,6                       | 80B4           |
|                                                     | 67,7                                                   | 102                                                      | 3,23                                                     | MHE 2063            | 13,3                       | 90S6           |
|                                                     | 69,7                                                   | 99                                                       | 2,84                                                     | MHE 2063            | 20,1                       | 80B4           |
|                                                     | 82,9                                                   | 83                                                       | 3,38                                                     | MHE 2063            | 16,9                       | 80B4           |
|                                                     | 105                                                    | 72                                                       | 4,08                                                     | MHE 2063            | 16,9                       | 80B4           |
|                                                     | 138                                                    | 63                                                       | 4,48                                                     | MHE 2063            | 16,9                       | 80B4           |
| <b>1,1</b>                                          | 38,1                                                   | 265                                                      | 1,02                                                     | MHE 2063            | 23,6                       | 90L6           |
|                                                     | 38,7                                                   | 261                                                      | 2,19                                                     | MHE 2080            | 23,3                       | 90L6           |
|                                                     | 44,8                                                   | 225                                                      | 1,29                                                     | MHE 2063            | 20,1                       | 90L6           |
|                                                     | 45,9                                                   | 220                                                      | 2,84                                                     | MHE 2080            | 19,6                       | 90L6           |
|                                                     | 53,3                                                   | 189                                                      | 1,54                                                     | MHE 2063            | 16,9                       | 90L6           |
|                                                     | 54,0                                                   | 187                                                      | 3,34                                                     | MHE 2080            | 16,7                       | 90L6           |
|                                                     | 59,2                                                   | 170                                                      | 1,53                                                     | MHE 2063            | 23,6                       | 90S4           |
|                                                     | 60,2                                                   | 168                                                      | 3,28                                                     | MHE 2080            | 23,3                       | 90S4           |
|                                                     | 67,7                                                   | 149                                                      | 2,20                                                     | MHE 2063            | 13,3                       | 90L6           |
|                                                     | 69,7                                                   | 145                                                      | 1,93                                                     | MHE 2063            | 20,1                       | 90S4           |
|                                                     | 82,9                                                   | 122                                                      | 2,30                                                     | MHE 2063            | 16,9                       | 90S4           |
|                                                     | 88,8                                                   | 114                                                      | 2,89                                                     | MHE 2063            | 10,1                       | 90L6           |
|                                                     | 105                                                    | 96                                                       | 3,29                                                     | MHE 2063            | 13,3                       | 90S4           |
|                                                     | 116                                                    | 87                                                       | 3,44                                                     | MHE 2063            | 7,78                       | 90L6           |
|                                                     | 138                                                    | 73                                                       | 4,31                                                     | MHE 2063            | 10,1                       | 90S4           |
|                                                     | 140                                                    | 72                                                       | 4,08                                                     | MHE 2063            | 6,41                       | 90L6           |
| <b>1,5</b>                                          | 6,75                                                   | 1997                                                     | 1,68                                                     | MHE 3140            | 133                        | 100LA6         |
|                                                     | 6,84                                                   | 1971                                                     | 2,59                                                     | MHE 3160            | 132                        | 100LA6         |
|                                                     | 8,28                                                   | 1629                                                     | 2,06                                                     | MHE 3140            | 109                        | 100LA6         |
|                                                     | 8,38                                                   | 1609                                                     | 3,43                                                     | MHE 3160            | 107                        | 100LA6         |
|                                                     | 9,11                                                   | 1480                                                     | 2,26                                                     | MHE 3140            | 98,8                       | 100LA6         |
|                                                     | 11,5                                                   | 1175                                                     | 2,89                                                     | MHE 3140            | 78,5                       | 100LA6         |
|                                                     | 13,6                                                   | 992                                                      | 3,43                                                     | MHE 3140            | 66,2                       | 100LA6         |
|                                                     | 37,7                                                   | 365                                                      | 2,99                                                     | MHE 2100            | 23,9                       | 100LA6         |
|                                                     | 38,7                                                   | 356                                                      | 1,61                                                     | MHE 2080            | 23,3                       | 100LA6         |
|                                                     | 45,9                                                   | 300                                                      | 2,08                                                     | MHE 2080            | 19,6                       | 100LA6         |
|                                                     | 54,0                                                   | 255                                                      | 2,45                                                     | MHE 2080            | 16,7                       | 100LA6         |
|                                                     | 59,2                                                   | 232                                                      | 1,12                                                     | MHE 2063            | 23,6                       | 90L4           |
|                                                     | 60,2                                                   | 229                                                      | 2,41                                                     | MHE 2080            | 23,3                       | 90L4           |
|                                                     | 69,7                                                   | 198                                                      | 1,42                                                     | MHE 2063            | 20,1                       | 90L4           |
|                                                     | 71,4                                                   | 193                                                      | 3,12                                                     | MHE 2080            | 19,6                       | 90L4           |
|                                                     | 71,9                                                   | 191                                                      | 3,53                                                     | MHE 2080            | 12,5                       | 100LA6         |

| P <sub>1</sub><br>Giriş Gücü<br>Input Power<br>[kW] | n <sub>2</sub><br>Çıkış Devri<br>Output Speed<br>[rpm] | M <sub>2</sub><br>Çıkış Momenti<br>Output Torque<br>[Nm] | f <sub>s</sub><br>Servis<br>Faktörü<br>Service<br>Factor | Redüktör<br>Gearbox | i<br>Tahvil Oranı<br>Ratio | Motor<br>Motor |
|-----------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|---------------------|----------------------------|----------------|
| <b>1,5</b>                                          | 82,9                                                   | 166                                                      | 1,69                                                     | MHE 2063            | 16,9                       | 90L4           |
|                                                     | 84,0                                                   | 164                                                      | 3,66                                                     | MHE 2080            | 16,7                       | 90L4           |
|                                                     | 105                                                    | 131                                                      | 2,41                                                     | MHE 2063            | 13,3                       | 90L4           |
|                                                     | 138                                                    | 100                                                      | 3,16                                                     | MHE 2063            | 10,1                       | 90L4           |
|                                                     | 180                                                    | 76                                                       | 3,77                                                     | MHE 2063            | 7,78                       | 90L4           |
|                                                     | 218                                                    | 63                                                       | 4,48                                                     | MHE 2063            | 6,41                       | 90L4           |
| <b>2,2</b>                                          | 6,75                                                   | 2929                                                     | 1,14                                                     | MHE 3140            | 133                        | 112M6          |
|                                                     | 6,84                                                   | 2890                                                     | 1,77                                                     | MHE 3160            | 132                        | 112M6          |
|                                                     | 6,95                                                   | 2846                                                     | 2,60                                                     | MHE 3180            | 130                        | 112M6          |
|                                                     | 8,28                                                   | 2389                                                     | 1,40                                                     | MHE 3140            | 109                        | 112M6          |
|                                                     | 8,36                                                   | 2365                                                     | 3,29                                                     | MHE 3180            | 108                        | 112M6          |
|                                                     | 8,38                                                   | 2360                                                     | 2,34                                                     | MHE 3160            | 107                        | 112M6          |
|                                                     | 9,11                                                   | 2171                                                     | 1,54                                                     | MHE 3140            | 98,8                       | 112M6          |
|                                                     | 9,57                                                   | 2065                                                     | 2,69                                                     | MHE 3160            | 94,0                       | 112M6          |
|                                                     | 10,5                                                   | 1883                                                     | 1,71                                                     | MHE 3140            | 133                        | 100LA4         |
|                                                     | 10,6                                                   | 1858                                                     | 2,64                                                     | MHE 3160            | 132                        | 100LA4         |
|                                                     | 10,9                                                   | 1806                                                     | 3,08                                                     | MHE 3160            | 82,2                       | 112M6          |
|                                                     | 11,5                                                   | 1724                                                     | 1,97                                                     | MHE 3140            | 78,5                       | 112M6          |
|                                                     | 12,9                                                   | 1536                                                     | 2,10                                                     | MHE 3140            | 109                        | 100LA4         |
|                                                     | 13,0                                                   | 1517                                                     | 3,49                                                     | MHE 3160            | 107                        | 100LA4         |
|                                                     | 13,6                                                   | 1455                                                     | 2,34                                                     | MHE 3140            | 66,2                       | 112M6          |
|                                                     | 14,2                                                   | 1396                                                     | 2,31                                                     | MHE 3140            | 98,8                       | 100LA4         |
|                                                     | 17,8                                                   | 1108                                                     | 2,95                                                     | MHE 3140            | 78,5                       | 100LA4         |
|                                                     | 18,0                                                   | 1098                                                     | 3,19                                                     | MHE 3140            | 50,0                       | 112M6          |
|                                                     | 21,1                                                   | 935                                                      | 3,50                                                     | MHE 3140            | 66,2                       | 100LA4         |
|                                                     | 37,7                                                   | 535                                                      | 2,04                                                     | MHE 2100            | 23,9                       | 112M6          |
|                                                     | 38,7                                                   | 521                                                      | 1,10                                                     | MHE 2080            | 23,3                       | 112M6          |
|                                                     | 45,9                                                   | 439                                                      | 1,42                                                     | MHE 2080            | 19,6                       | 112M6          |
|                                                     | 47,5                                                   | 425                                                      | 2,82                                                     | MHE 2100            | 18,9                       | 112M6          |
|                                                     | 54,0                                                   | 374                                                      | 1,67                                                     | MHE 2080            | 16,7                       | 112M6          |
|                                                     | 56,4                                                   | 358                                                      | 3,34                                                     | MHE 2100            | 16,0                       | 112M6          |
| <b>3</b>                                            | 58,7                                                   | 344                                                      | 3,05                                                     | MHE 2100            | 23,9                       | 100LA4         |
|                                                     | 60,2                                                   | 335                                                      | 1,64                                                     | MHE 2080            | 23,3                       | 100LA4         |
|                                                     | 71,4                                                   | 282                                                      | 2,12                                                     | MHE 2080            | 19,6                       | 100LA4         |
|                                                     | 71,9                                                   | 281                                                      | 2,41                                                     | MHE 2080            | 12,5                       | 112M6          |
|                                                     | 84,0                                                   | 240                                                      | 2,50                                                     | MHE 2080            | 16,7                       | 100LA4         |
|                                                     | 91,3                                                   | 221                                                      | 3,15                                                     | MHE 2080            | 9,86                       | 112M6          |
|                                                     | 109                                                    | 185                                                      | 3,70                                                     | MHE 2080            | 8,27                       | 112M6          |
|                                                     | 112                                                    | 180                                                      | 3,60                                                     | MHE 2080            | 12,5                       | 100LA4         |
|                                                     | 142                                                    | 142                                                      | 4,69                                                     | MHE 2080            | 6,34                       | 112M6          |
|                                                     | 6,84                                                   | 3941                                                     | 1,30                                                     | MHE 3160            | 132                        | 132S6          |
|                                                     | 6,95                                                   | 3880                                                     | 1,91                                                     | MHE 3180            | 130                        | 132S6          |
|                                                     | 7,22                                                   | 3737                                                     | 2,80                                                     | MHE 3200            | 125                        | 132S6          |
|                                                     | 8,36                                                   | 3224                                                     | 2,41                                                     | MHE 3180            | 108                        | 132S6          |
|                                                     | 8,38                                                   | 3218                                                     | 1,71                                                     | MHE 3160            | 107                        | 132S6          |
|                                                     | 9,11                                                   | 2960                                                     | 1,13                                                     | MHE 3140            | 98,8                       | 132S6          |
|                                                     | 9,56                                                   | 2821                                                     | 2,72                                                     | MHE 3180            | 94,2                       | 132S6          |





## MHE Performans Tabloları / Performance Tables

| P <sub>1</sub><br>Giriş Gücü<br>Input Power<br>[kW] | n <sub>2</sub><br>Çıkış Devri<br>Output Speed<br>[rpm] | M <sub>2</sub><br>Çıkış Momenti<br>Output Torque<br>[Nm] | f <sub>s</sub><br>Servis<br>Faktörü<br>Service<br>Factor | Redüktör<br>Gearbox | i<br>Tahvil Oranı<br>Ratio | Motor<br>Motor |
|-----------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|---------------------|----------------------------|----------------|
| 3                                                   | 9,57                                                   | 2816                                                     | 1,97                                                     | MHE 3160            | 94,0                       | 132S6          |
|                                                     | 10,5                                                   | 2568                                                     | 1,25                                                     | MHE 3140            | 133                        | 100LB4         |
|                                                     | 10,6                                                   | 2534                                                     | 1,94                                                     | MHE 3160            | 132                        | 100LB4         |
|                                                     | 10,8                                                   | 2494                                                     | 2,85                                                     | MHE 3180            | 130                        | 100LB4         |
|                                                     | 10,9                                                   | 2467                                                     | 3,17                                                     | MHE 3180            | 82,4                       | 132S6          |
|                                                     | 10,9                                                   | 2463                                                     | 2,26                                                     | MHE 3160            | 82,2                       | 132S6          |
|                                                     | 11,5                                                   | 2351                                                     | 1,45                                                     | MHE 3140            | 78,5                       | 132S6          |
|                                                     | 12,9                                                   | 2094                                                     | 1,54                                                     | MHE 3140            | 109                        | 100LB4         |
|                                                     | 13,0                                                   | 2069                                                     | 2,56                                                     | MHE 3160            | 107                        | 100LB4         |
|                                                     | 13,6                                                   | 1983                                                     | 1,71                                                     | MHE 3140            | 66,2                       | 132S6          |
|                                                     | 14,2                                                   | 1903                                                     | 1,69                                                     | MHE 3140            | 98,8                       | 100LB4         |
|                                                     | 14,7                                                   | 1829                                                     | 3,04                                                     | MHE 3160            | 61,1                       | 132S6          |
|                                                     | 14,9                                                   | 1811                                                     | 2,95                                                     | MHE 3160            | 94,0                       | 100LB4         |
|                                                     | 17,0                                                   | 1583                                                     | 3,37                                                     | MHE 3160            | 82,2                       | 100LB4         |
|                                                     | 17,8                                                   | 1511                                                     | 2,16                                                     | MHE 3140            | 78,5                       | 100LB4         |
|                                                     | 18,0                                                   | 1497                                                     | 2,34                                                     | MHE 3140            | 50,0                       | 132S6          |
|                                                     | 21,1                                                   | 1275                                                     | 2,56                                                     | MHE 3140            | 66,2                       | 100LB4         |
|                                                     | 22,3                                                   | 1208                                                     | 2,90                                                     | MHE 3140            | 40,3                       | 132S6          |
|                                                     | 28,0                                                   | 962                                                      | 3,50                                                     | MHE 3140            | 50,0                       | 100LB4         |
|                                                     | 37,7                                                   | 729                                                      | 1,50                                                     | MHE 2100            | 23,9                       | 132S6          |
|                                                     | 38,5                                                   | 715                                                      | 3,10                                                     | MHE 2125            | 23,4                       | 132S6          |
|                                                     | 47,5                                                   | 579                                                      | 2,07                                                     | MHE 2100            | 18,9                       | 132S6          |
|                                                     | 56,4                                                   | 488                                                      | 2,45                                                     | MHE 2100            | 16,0                       | 132S6          |
|                                                     | 58,7                                                   | 469                                                      | 2,24                                                     | MHE 2100            | 23,9                       | 100LB4         |
|                                                     | 60,2                                                   | 457                                                      | 1,20                                                     | MHE 2080            | 23,3                       | 100LB4         |
|                                                     | 69,9                                                   | 394                                                      | 3,43                                                     | MHE 2100            | 12,9                       | 132S6          |
|                                                     | 71,4                                                   | 385                                                      | 1,56                                                     | MHE 2080            | 19,6                       | 100LB4         |
|                                                     | 73,9                                                   | 372                                                      | 3,09                                                     | MHE 2100            | 18,9                       | 100LB4         |
|                                                     | 84,0                                                   | 328                                                      | 1,83                                                     | MHE 2080            | 16,7                       | 100LB4         |
|                                                     | 87,7                                                   | 314                                                      | 3,67                                                     | MHE 2100            | 16,0                       | 100LB4         |
|                                                     | 112                                                    | 246                                                      | 2,64                                                     | MHE 2080            | 12,5                       | 100LB4         |
|                                                     | 142                                                    | 194                                                      | 3,46                                                     | MHE 2080            | 9,86                       | 100LB4         |
|                                                     | 169                                                    | 163                                                      | 4,06                                                     | MHE 2080            | 8,27                       | 100LB4         |
| 4                                                   | 6,84                                                   | 5255                                                     | 0,97                                                     | MHE 3160            | 132                        | 132MA6         |
|                                                     | 6,95                                                   | 5174                                                     | 1,43                                                     | MHE 3180            | 130                        | 132MA6         |
|                                                     | 7,11                                                   | 5060                                                     | 2,76                                                     | MHE 3225            | 127                        | 132MA6         |
|                                                     | 7,22                                                   | 4982                                                     | 2,10                                                     | MHE 3200            | 125                        | 132MA6         |
|                                                     | 8,36                                                   | 4299                                                     | 1,81                                                     | MHE 3180            | 108                        | 132MA6         |
|                                                     | 8,38                                                   | 4291                                                     | 1,28                                                     | MHE 3160            | 107                        | 132MA6         |
|                                                     | 8,60                                                   | 4183                                                     | 2,67                                                     | MHE 3200            | 105                        | 132MA6         |
|                                                     | 9,04                                                   | 3978                                                     | 2,94                                                     | MHE 3200            | 99,6                       | 132MA6         |
|                                                     | 9,56                                                   | 3762                                                     | 2,04                                                     | MHE 3180            | 94,2                       | 132MA6         |
|                                                     | 9,57                                                   | 3755                                                     | 1,48                                                     | MHE 3160            | 94,0                       | 132MA6         |
|                                                     | 10,5                                                   | 3424                                                     | 0,94                                                     | MHE 3140            | 133                        | 112M4          |
|                                                     | 10,5                                                   | 3419                                                     | 3,50                                                     | MHE 3200            | 85,6                       | 132MA6         |
|                                                     | 10,6                                                   | 3378                                                     | 1,45                                                     | MHE 3160            | 132                        | 112M4          |
|                                                     | 10,8                                                   | 3326                                                     | 2,14                                                     | MHE 3180            | 130                        | 112M4          |

| P <sub>1</sub><br>Giriş Gücü<br>Input Power<br>[kW] | n <sub>2</sub><br>Çıkış Devri<br>Output Speed<br>[rpm] | M <sub>2</sub><br>Çıkış Momenti<br>Output Torque<br>[Nm] | f <sub>s</sub><br>Servis<br>Faktörü<br>Service<br>Factor | Redüktör<br>Gearbox | i<br>Tahvil Oranı<br>Ratio | Motor<br>Motor |
|-----------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|---------------------|----------------------------|----------------|
| 4                                                   | 10,9                                                   | 3290                                                     | 2,38                                                     | MHE 3180            | 82,4                       | 132MA6         |
|                                                     | 10,9                                                   | 3284                                                     | 1,69                                                     | MHE 3160            | 82,2                       | 132MA6         |
|                                                     | 11,5                                                   | 3134                                                     | 1,09                                                     | MHE 3140            | 78,5                       | 132MA6         |
|                                                     | 12,9                                                   | 2792                                                     | 1,15                                                     | MHE 3140            | 109                        | 112M4          |
|                                                     | 13,0                                                   | 2764                                                     | 2,70                                                     | MHE 3180            | 108                        | 112M4          |
|                                                     | 13,0                                                   | 2759                                                     | 1,92                                                     | MHE 3160            | 107                        | 112M4          |
|                                                     | 13,6                                                   | 2645                                                     | 1,29                                                     | MHE 3140            | 66,2                       | 132MA6         |
|                                                     | 14,2                                                   | 2538                                                     | 1,27                                                     | MHE 3140            | 98,8                       | 112M4          |
|                                                     | 14,2                                                   | 2538                                                     | 1,27                                                     | MHE 3140            | 98,8                       | 112M4          |
|                                                     | 14,7                                                   | 2444                                                     | 3,20                                                     | MHE 3180            | 61,2                       | 132MA6         |
|                                                     | 14,7                                                   | 2439                                                     | 2,28                                                     | MHE 3160            | 61,1                       | 132MA6         |
|                                                     | 14,9                                                   | 2414                                                     | 2,21                                                     | MHE 3160            | 94,0                       | 112M4          |
|                                                     | 17,0                                                   | 2111                                                     | 2,53                                                     | MHE 3160            | 82,2                       | 112M4          |
|                                                     | 17,8                                                   | 2015                                                     | 1,62                                                     | MHE 3140            | 78,5                       | 112M4          |
|                                                     | 18,0                                                   | 1996                                                     | 1,76                                                     | MHE 3140            | 50,0                       | 132MA6         |
|                                                     | 19,0                                                   | 1892                                                     | 3,08                                                     | MHE 3160            | 47,4                       | 132MA6         |
|                                                     | 21,1                                                   | 1700                                                     | 1,92                                                     | MHE 3140            | 66,2                       | 112M4          |
|                                                     | 22,3                                                   | 1610                                                     | 2,18                                                     | MHE 3140            | 40,3                       | 132MA6         |
|                                                     | 28,0                                                   | 1283                                                     | 2,63                                                     | MHE 3140            | 50,0                       | 112M4          |
|                                                     | 29,1                                                   | 1236                                                     | 2,79                                                     | MHE 3140            | 30,9                       | 132MA6         |
|                                                     | 34,7                                                   | 1035                                                     | 3,26                                                     | MHE 3140            | 40,3                       | 112M4          |
|                                                     | 35,3                                                   | 1019                                                     | 3,33                                                     | MHE 3140            | 25,5                       | 132MA6         |
|                                                     | 36,6                                                   | 1004                                                     | 3,20                                                     | MHE 2140            | 24,6                       | 132MA6         |
|                                                     | 37,7                                                   | 973                                                      | 1,12                                                     | MHE 2100            | 23,9                       | 132MA6         |
|                                                     | 38,5                                                   | 953                                                      | 2,32                                                     | MHE 2125            | 23,4                       | 132MA6         |
|                                                     | 44,0                                                   | 834                                                      | 2,89                                                     | MHE 2125            | 20,5                       | 132MA6         |
|                                                     | 47,5                                                   | 772                                                      | 1,55                                                     | MHE 2100            | 18,9                       | 132MA6         |
|                                                     | 56,4                                                   | 651                                                      | 1,84                                                     | MHE 2100            | 16,0                       | 132MA6         |
|                                                     | 58,7                                                   | 625                                                      | 1,68                                                     | MHE 2100            | 23,9                       | 112M4          |
|                                                     | 60,2                                                   | 610                                                      | 0,90                                                     | MHE 2080            | 23,3                       | 112M4          |
|                                                     | 69,9                                                   | 525                                                      | 2,58                                                     | MHE 2100            | 12,9                       | 132MA6         |
|                                                     | 71,4                                                   | 514                                                      | 1,17                                                     | MHE 2080            | 19,6                       | 112M4          |
|                                                     | 73,9                                                   | 496                                                      | 2,32                                                     | MHE 2100            | 18,9                       | 112M4          |
|                                                     | 84,0                                                   | 437                                                      | 1,37                                                     | MHE 2080            | 16,7                       | 112M4          |
|                                                     | 87,7                                                   | 418                                                      | 2,75                                                     | MHE 2100            | 16,0                       | 112M4          |
|                                                     | 93,1                                                   | 394                                                      | 3,51                                                     | MHE 2100            | 9,67                       | 132MA6         |
|                                                     | 109                                                    | 338                                                      | 3,85                                                     | MHE 2100            | 12,9                       | 112M4          |
|                                                     | 112                                                    | 328                                                      | 1,98                                                     | MHE 2080            | 12,5                       | 112M4          |
|                                                     | 113                                                    | 325                                                      | 4,00                                                     | MHE 2100            | 7,97                       | 132MA6         |
|                                                     | 142                                                    | 258                                                      | 2,59                                                     | MHE 2080            | 9,86                       | 112M4          |
|                                                     | 169                                                    | 217                                                      | 3,05                                                     | MHE 2080            | 8,27                       | 112M4          |
|                                                     | 221                                                    | 166                                                      | 3,85                                                     | MHE 2080            | 6,34                       | 112M4          |
| 5,5                                                 | 6,95                                                   | 7114                                                     | 1,04                                                     | MHE 3180            | 130                        | 132MB6         |
|                                                     | 7,11                                                   | 6958                                                     | 2,00                                                     | MHE 3225            | 127                        | 132MB6         |
|                                                     | 7,20                                                   | 6864                                                     | 2,92                                                     | MHE 3250            | 125                        | 132 MB6        |
|                                                     | 7,22                                                   | 6851                                                     | 1,53                                                     | MHE 3200            | 125                        | 132MB6         |
|                                                     | 8,36                                                   | 5911                                                     | 1,31                                                     | MHE 3180            | 108                        | 132MB6         |





## MHE Performans Tabloları / Performance Tables

| P <sub>1</sub><br>Giriş Gücü<br>Input Power<br>[kW] | n <sub>2</sub><br>Çıkış Devri<br>Output Speed<br>[rpm] | M <sub>2</sub><br>Çıkış Momenti<br>Output Torque<br>[Nm] | f <sub>s</sub><br>Servis<br>Faktörü<br>Service<br>Factor | Redüktör<br>Gearbox | i<br>Tahvil Oranı<br>Ratio | Motor<br>Motor |
|-----------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|---------------------|----------------------------|----------------|
| 5,5                                                 | 8,38                                                   | 5900                                                     | 0,93                                                     | MHE 3160            | 107                        | 132MB6         |
|                                                     | 8,58                                                   | 5765                                                     | 2,84                                                     | MHE 3225            | 105                        | 132MB6         |
|                                                     | 8,60                                                   | 5752                                                     | 1,94                                                     | MHE 3200            | 105                        | 132MB6         |
|                                                     | 9,02                                                   | 5482                                                     | 2,99                                                     | MHE 3225            | 99,8                       | 132MB6         |
|                                                     | 9,04                                                   | 5469                                                     | 2,14                                                     | MHE 3200            | 99,6                       | 132MB6         |
|                                                     | 9,56                                                   | 5173                                                     | 1,48                                                     | MHE 3180            | 94,2                       | 132MB6         |
|                                                     | 9,57                                                   | 5163                                                     | 1,08                                                     | MHE 3160            | 94,0                       | 132MB6         |
|                                                     | 10,5                                                   | 4701                                                     | 2,54                                                     | MHE 3200            | 85,6                       | 132MB6         |
|                                                     | 10,6                                                   | 4645                                                     | 1,06                                                     | MHE 3160            | 132                        | 132S4          |
|                                                     | 10,8                                                   | 4573                                                     | 1,55                                                     | MHE 3180            | 130                        | 132S4          |
|                                                     | 10,9                                                   | 4523                                                     | 1,73                                                     | MHE 3180            | 82,4                       | 132MB6         |
|                                                     | 10,9                                                   | 4515                                                     | 1,23                                                     | MHE 3160            | 82,2                       | 132MB6         |
|                                                     | 11,1                                                   | 4473                                                     | 3,00                                                     | MHE 3225            | 127                        | 132S4          |
|                                                     | 11,2                                                   | 4404                                                     | 2,28                                                     | MHE 3200            | 125                        | 132S4          |
|                                                     | 13,0                                                   | 3800                                                     | 1,97                                                     | MHE 3180            | 108                        | 132S4          |
|                                                     | 13,0                                                   | 3793                                                     | 1,40                                                     | MHE 3160            | 107                        | 132S4          |
|                                                     | 13,4                                                   | 3697                                                     | 2,91                                                     | MHE 3200            | 105                        | 132S4          |
|                                                     | 13,6                                                   | 3636                                                     | 0,94                                                     | MHE 3140            | 66,2                       | 132MB6         |
|                                                     | 14,1                                                   | 3516                                                     | 3,20                                                     | MHE 3200            | 99,6                       | 132S4          |
|                                                     | 14,2                                                   | 3489                                                     | 0,92                                                     | MHE 3140            | 98,8                       | 132S4          |
|                                                     | 14,7                                                   | 3360                                                     | 2,33                                                     | MHE 3180            | 61,2                       | 132MB6         |
|                                                     | 14,7                                                   | 3354                                                     | 1,66                                                     | MHE 3160            | 61,1                       | 132MB6         |
|                                                     | 14,9                                                   | 3325                                                     | 2,22                                                     | MHE 3180            | 94,2                       | 132S4          |
|                                                     | 14,9                                                   | 3319                                                     | 1,61                                                     | MHE 3160            | 94,0                       | 132S4          |
|                                                     | 17,0                                                   | 2908                                                     | 2,59                                                     | MHE 3180            | 82,4                       | 132S4          |
|                                                     | 17,0                                                   | 2903                                                     | 1,84                                                     | MHE 3160            | 82,2                       | 132S4          |
|                                                     | 17,8                                                   | 2771                                                     | 1,18                                                     | MHE 3140            | 78,5                       | 132S4          |
|                                                     | 18,0                                                   | 2744                                                     | 1,28                                                     | MHE 3140            | 50,0                       | 132MB6         |
|                                                     | 19,0                                                   | 2601                                                     | 2,24                                                     | MHE 3160            | 47,4                       | 132MB6         |
|                                                     | 19,6                                                   | 2523                                                     | 3,10                                                     | MHE 3180            | 45,9                       | 132MB6         |
|                                                     | 21,1                                                   | 2338                                                     | 1,40                                                     | MHE 3140            | 66,2                       | 132S4          |
|                                                     | 22,3                                                   | 2214                                                     | 1,58                                                     | MHE 3140            | 40,3                       | 132MB6         |
|                                                     | 22,9                                                   | 2160                                                     | 3,49                                                     | MHE 3180            | 61,2                       | 132S4          |
|                                                     | 22,9                                                   | 2156                                                     | 2,48                                                     | MHE 3160            | 61,1                       | 132S4          |
|                                                     | 24,6                                                   | 2013                                                     | 2,85                                                     | MHE 3160            | 36,6                       | 132MB6         |
|                                                     | 28,0                                                   | 1764                                                     | 1,91                                                     | MHE 3140            | 50,0                       | 132S4          |
|                                                     | 29,1                                                   | 1699                                                     | 2,03                                                     | MHE 3140            | 30,9                       | 132MB6         |
|                                                     | 29,6                                                   | 1672                                                     | 3,35                                                     | MHE 3160            | 47,4                       | 132S4          |
|                                                     | 34,7                                                   | 1423                                                     | 2,37                                                     | MHE 3140            | 40,3                       | 132S4          |
|                                                     | 35,3                                                   | 1401                                                     | 2,42                                                     | MHE 3140            | 25,5                       | 132MB6         |
|                                                     | 36,6                                                   | 1380                                                     | 2,33                                                     | MHE 2140            | 24,6                       | 132MB6         |
|                                                     | 37,7                                                   | 1337                                                     | 0,82                                                     | MHE 2100            | 23,9                       | 132MB6         |
|                                                     | 38,5                                                   | 1310                                                     | 1,69                                                     | MHE 2125            | 23,4                       | 132MB6         |
|                                                     | 44,0                                                   | 1146                                                     | 2,11                                                     | MHE 2125            | 20,5                       | 132MB6         |
|                                                     | 44,8                                                   | 1125                                                     | 2,87                                                     | MHE 2140            | 20,1                       | 132MB6         |
|                                                     | 45,3                                                   | 1092                                                     | 3,03                                                     | MHE 3140            | 30,9                       | 132S4          |
|                                                     | 47,5                                                   | 1062                                                     | 1,13                                                     | MHE 2100            | 18,9                       | 132MB6         |

| P <sub>1</sub><br>Giriş Gücü<br>Input Power<br>[kW] | n <sub>2</sub><br>Çıkış Devri<br>Output Speed<br>[rpm] | M <sub>2</sub><br>Çıkış Momenti<br>Output Torque<br>[Nm] | f <sub>s</sub><br>Servis<br>Faktörü<br>Service<br>Factor | Redüktör<br>Gearbox | i<br>Tahvil Oranı<br>Ratio | Motor<br>Motor |
|-----------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|---------------------|----------------------------|----------------|
| 5,5                                                 | 55,4                                                   | 910                                                      | 2,77                                                     | MHE 2125            | 16,2                       | 132MB6         |
|                                                     | 56,4                                                   | 895                                                      | 1,34                                                     | MHE 2100            | 16,0                       | 132MB6         |
|                                                     | 58,7                                                   | 860                                                      | 1,22                                                     | MHE 2100            | 23,9                       | 132S4          |
|                                                     | 59,9                                                   | 842                                                      | 2,53                                                     | MHE 2125            | 23,4                       | 132S4          |
|                                                     | 68,5                                                   | 737                                                      | 3,15                                                     | MHE 2125            | 20,5                       | 132S4          |
|                                                     | 69,9                                                   | 722                                                      | 1,87                                                     | MHE 2100            | 12,9                       | 132MB6         |
|                                                     | 73,9                                                   | 682                                                      | 1,69                                                     | MHE 2100            | 18,9                       | 132S4          |
|                                                     | 87,7                                                   | 575                                                      | 2,00                                                     | MHE 2100            | 16,0                       | 132S4          |
|                                                     | 93,1                                                   | 542                                                      | 2,55                                                     | MHE 2100            | 9,67                       | 132MB6         |
|                                                     | 109                                                    | 464                                                      | 2,80                                                     | MHE 2100            | 12,9                       | 132S4          |
|                                                     | 113                                                    | 447                                                      | 2,91                                                     | MHE 2100            | 7,97                       | 132MB6         |
|                                                     | 135                                                    | 375                                                      | 3,11                                                     | MHE 2100            | 6,69                       | 132MB6         |
|                                                     | 145                                                    | 348                                                      | 3,82                                                     | MHE 2100            | 9,67                       | 132S4          |
|                                                     | 7,11                                                   | 9488                                                     | 1,47                                                     | MHE 3225            | 127                        | 160M6          |
|                                                     | 7,20                                                   | 9361                                                     | 2,14                                                     | MHE 3250            | 125                        | 160 M6         |
|                                                     | 7,22                                                   | 9342                                                     | 1,12                                                     | MHE 3200            | 125                        | 160M6          |
|                                                     | 7,22                                                   | 9340                                                     | 3,24                                                     | MHE 3280            | 125                        | 160M6          |
|                                                     | 8,36                                                   | 8061                                                     | 0,96                                                     | MHE 3180            | 108                        | 160M6          |
|                                                     | 8,58                                                   | 7861                                                     | 2,08                                                     | MHE 3225            | 105                        | 160M6          |
|                                                     | 8,60                                                   | 7843                                                     | 1,43                                                     | MHE 3200            | 105                        | 160M6          |
|                                                     | 9,00                                                   | 7490                                                     | 3,57                                                     | MHE 3250            | 100                        | 160 M6         |
|                                                     | 9,02                                                   | 7475                                                     | 2,19                                                     | MHE 3225            | 99,8                       | 160M6          |
|                                                     | 9,04                                                   | 7458                                                     | 1,57                                                     | MHE 3200            | 99,6                       | 160M6          |
|                                                     | 9,56                                                   | 7054                                                     | 1,09                                                     | MHE 3180            | 94,2                       | 160M6          |
| 7,5                                                 | 10,5                                                   | 6426                                                     | 2,62                                                     | MHE 3225            | 85,8                       | 160M6          |
|                                                     | 10,5                                                   | 6411                                                     | 1,87                                                     | MHE 3200            | 85,6                       | 160M6          |
|                                                     | 10,7                                                   | 6289                                                     | 4,10                                                     | MHE 3250            | 84,0                       | 160 M6         |
|                                                     | 10,8                                                   | 6236                                                     | 1,14                                                     | MHE 3180            | 130                        | 132MA4         |
|                                                     | 10,9                                                   | 6168                                                     | 1,27                                                     | MHE 3180            | 82,4                       | 160M6          |
|                                                     | 10,9                                                   | 6157                                                     | 0,90                                                     | MHE 3160            | 82,2                       | 160M6          |
|                                                     | 11,1                                                   | 6099                                                     | 2,20                                                     | MHE 3225            | 127                        | 132MA4         |
|                                                     | 11,2                                                   | 6006                                                     | 1,67                                                     | MHE 3200            | 125                        | 132MA4         |
|                                                     | 11,2                                                   | 6018                                                     | 3,21                                                     | MHE 3250            | 125                        | 132 MA4        |
|                                                     | 12,9                                                   | 5237                                                     | 3,21                                                     | MHE 3225            | 69,9                       | 160M6          |
|                                                     | 12,9                                                   | 5225                                                     | 2,29                                                     | MHE 3200            | 69,8                       | 160M6          |
|                                                     | 13,0                                                   | 5182                                                     | 1,44                                                     | MHE 3180            | 108                        | 132MA4         |
|                                                     | 13,0                                                   | 5172                                                     | 1,02                                                     | MHE 3160            | 107                        | 132MA4         |
|                                                     | 13,3                                                   | 5054                                                     | 3,12                                                     | MHE 3225            | 105                        | 132MA4         |
|                                                     | 13,4                                                   | 5042                                                     | 2,13                                                     | MHE 3200            | 105                        | 132MA4         |
|                                                     | 14,0                                                   | 4806                                                     | 3,28                                                     | MHE 3225            | 99,8                       | 132MA4         |
|                                                     | 14,1                                                   | 4795                                                     | 2,35                                                     | MHE 3200            | 99,6                       | 132MA4         |
|                                                     | 14,7                                                   | 4582                                                     | 1,71                                                     | MHE 3180            | 61,2                       | 160M6          |
|                                                     | 14,7                                                   | 4574                                                     | 1,21                                                     | MHE 3160            | 61,1                       | 160M6          |
|                                                     | 14,9                                                   | 4534                                                     | 1,63                                                     | MHE 3180            | 94,2                       | 132MA4         |
|                                                     | 14,9                                                   | 4526                                                     | 1,18                                                     | MHE 3160            | 94,0                       | 132MA4         |
|                                                     | 16,4                                                   | 4121                                                     | 2,79                                                     | MHE 3200            | 85,6                       | 132MA4         |
|                                                     | 16,7                                                   | 4046                                                     | 2,89                                                     | MHE 3200            | 54,0                       | 160M6          |



## MHE Performans Tabloları / Performance Tables

| P <sub>1</sub><br>Giriş Gücü<br>Input Power<br>[kW] | n <sub>2</sub><br>Çıkış Devri<br>Output Speed<br>[rpm] | M <sub>2</sub><br>Çıkış Momenti<br>Output Torque<br>[Nm] | f <sub>s</sub><br>Servis<br>Faktörü<br>Service<br>Factor | Redüktör<br>Gearbox | i<br>Tahvil Oranı<br>Ratio | Motor<br>Motor |
|-----------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|---------------------|----------------------------|----------------|
| 7,5                                                 | 17,0                                                   | 3965                                                     | 1,90                                                     | MHE 3180            | 82,4                       | 132MA4         |
|                                                     | 17,0                                                   | 3958                                                     | 1,35                                                     | MHE 3160            | 82,2                       | 132MA4         |
|                                                     | 18,0                                                   | 3742                                                     | 0,94                                                     | MHE 3140            | 50,0                       | 160M6          |
|                                                     | 19,0                                                   | 3547                                                     | 1,64                                                     | MHE 3160            | 47,4                       | 160M6          |
|                                                     | 19,6                                                   | 3440                                                     | 2,28                                                     | MHE 3180            | 45,9                       | 160M6          |
|                                                     | 21,1                                                   | 3188                                                     | 1,03                                                     | MHE 3140            | 66,2                       | 132MA4         |
|                                                     | 22,3                                                   | 3019                                                     | 1,16                                                     | MHE 3140            | 40,3                       | 160M6          |
|                                                     | 22,9                                                   | 2945                                                     | 2,56                                                     | MHE 3180            | 61,2                       | 132MA4         |
|                                                     | 22,9                                                   | 2940                                                     | 1,82                                                     | MHE 3160            | 61,1                       | 132MA4         |
|                                                     | 24,6                                                   | 2744                                                     | 2,09                                                     | MHE 3160            | 36,6                       | 160M6          |
|                                                     | 25,3                                                   | 2662                                                     | 2,87                                                     | MHE 3180            | 35,5                       | 160M6          |
|                                                     | 28,0                                                   | 2406                                                     | 1,40                                                     | MHE 3140            | 50,0                       | 132MA4         |
|                                                     | 28,8                                                   | 2341                                                     | 2,45                                                     | MHE 3160            | 31,3                       | 160M6          |
|                                                     | 29,1                                                   | 2317                                                     | 1,49                                                     | MHE 3140            | 30,9                       | 160M6          |
|                                                     | 29,6                                                   | 2280                                                     | 2,46                                                     | MHE 3160            | 47,4                       | 132MA4         |
|                                                     | 29,7                                                   | 2271                                                     | 3,37                                                     | MHE 3180            | 30,3                       | 160M6          |
|                                                     | 30,5                                                   | 2212                                                     | 3,40                                                     | MHE 3180            | 45,9                       | 132MA4         |
|                                                     | 34,7                                                   | 1941                                                     | 1,74                                                     | MHE 3140            | 40,3                       | 132MA4         |
|                                                     | 35,3                                                   | 1910                                                     | 1,77                                                     | MHE 3140            | 25,5                       | 160M6          |
|                                                     | 36,6                                                   | 1882                                                     | 1,71                                                     | MHE 2140            | 24,6                       | 160M6          |
|                                                     | 37,5                                                   | 1800                                                     | 3,07                                                     | MHE 3160            | 24,0                       | 160M6          |
|                                                     | 37,9                                                   | 1815                                                     | 2,70                                                     | MHE 2160            | 23,8                       | 160M6          |
|                                                     | 38,2                                                   | 1764                                                     | 3,13                                                     | MHE 3160            | 36,6                       | 132MA4         |
|                                                     | 38,5                                                   | 1787                                                     | 1,24                                                     | MHE 2125            | 23,4                       | 160M6          |
|                                                     | 44,0                                                   | 1563                                                     | 1,54                                                     | MHE 2125            | 20,5                       | 160M6          |
|                                                     | 44,8                                                   | 1534                                                     | 2,11                                                     | MHE 2140            | 20,1                       | 160M6          |
|                                                     | 45,3                                                   | 1489                                                     | 2,22                                                     | MHE 3140            | 30,9                       | 132MA4         |
|                                                     | 54,9                                                   | 1228                                                     | 2,65                                                     | MHE 3140            | 25,5                       | 132MA4         |
|                                                     | 55,4                                                   | 1241                                                     | 2,03                                                     | MHE 2125            | 16,2                       | 160M6          |
|                                                     | 56,5                                                   | 1218                                                     | 2,91                                                     | MHE 2140            | 15,9                       | 160M6          |
|                                                     | 56,9                                                   | 1210                                                     | 2,55                                                     | MHE 2140            | 24,6                       | 132MA4         |
|                                                     | 58,7                                                   | 1172                                                     | 0,90                                                     | MHE 2100            | 23,9                       | 132MA4         |
|                                                     | 59,9                                                   | 1149                                                     | 1,85                                                     | MHE 2125            | 23,4                       | 132MA4         |
|                                                     | 68,5                                                   | 1005                                                     | 2,31                                                     | MHE 2125            | 20,5                       | 132MA4         |
|                                                     | 69,8                                                   | 986                                                      | 3,15                                                     | MHE 2140            | 20,1                       | 132MA4         |
|                                                     | 71,7                                                   | 960                                                      | 2,82                                                     | MHE 2125            | 12,6                       | 160M6          |
|                                                     | 73,9                                                   | 931                                                      | 1,24                                                     | MHE 2100            | 18,9                       | 132MA4         |
|                                                     | 86,2                                                   | 798                                                      | 3,03                                                     | MHE 2125            | 16,2                       | 132MA4         |
|                                                     | 87,7                                                   | 784                                                      | 1,47                                                     | MHE 2100            | 16,0                       | 132MA4         |
|                                                     | 88,8                                                   | 775                                                      | 3,50                                                     | MHE 2125            | 10,1                       | 160M6          |
|                                                     | 109                                                    | 633                                                      | 2,05                                                     | MHE 2100            | 12,9                       | 132MA4         |
|                                                     | 145                                                    | 475                                                      | 2,80                                                     | MHE 2100            | 9,67                       | 132MA4         |
|                                                     | 176                                                    | 392                                                      | 3,19                                                     | MHE 2100            | 7,97                       | 132MA4         |
|                                                     | 209                                                    | 329                                                      | 3,41                                                     | MHE 2100            | 6,69                       | 132MA4         |
| 11                                                  | 7,11                                                   | 13916                                                    | 1,00                                                     | MHE 3225            | 127                        | 160L6          |
|                                                     | 7,20                                                   | 13729                                                    | 1,46                                                     | MHE 3250            | 125                        | 160 L6         |
|                                                     | 7,22                                                   | 13699                                                    | 2,21                                                     | MHE 3280            | 125                        | 160L6          |

| P <sub>1</sub><br>Giriş Gücü<br>Input Power<br>[kW] | n <sub>2</sub><br>Çıkış Devri<br>Output Speed<br>[rpm] | M <sub>2</sub><br>Çıkış Momenti<br>Output Torque<br>[Nm] | f <sub>s</sub><br>Servis<br>Faktörü<br>Service<br>Factor | Redüktör<br>Gearbox | i<br>Tahvil Oranı<br>Ratio | Motor<br>Motor |
|-----------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|---------------------|----------------------------|----------------|
| 11                                                  | 7,30                                                   | 13545                                                    | 3,18                                                     | MHE 3320            | 123                        | 160L6          |
|                                                     | 8,58                                                   | 11530                                                    | 1,42                                                     | MHE 3225            | 105                        | 160L6          |
|                                                     | 8,60                                                   | 11503                                                    | 0,97                                                     | MHE 3200            | 105                        | 160L6          |
|                                                     | 9,00                                                   | 10986                                                    | 2,43                                                     | MHE 3250            | 100                        | 160 L6         |
|                                                     | 9,02                                                   | 10964                                                    | 1,49                                                     | MHE 3225            | 99,8                       | 160L6          |
|                                                     | 9,04                                                   | 10939                                                    | 1,07                                                     | MHE 3200            | 99,6                       | 160L6          |
|                                                     | 10,5                                                   | 9425                                                     | 1,78                                                     | MHE 3225            | 85,8                       | 160L6          |
|                                                     | 10,5                                                   | 9403                                                     | 1,27                                                     | MHE 3200            | 85,6                       | 160L6          |
|                                                     | 10,7                                                   | 9224                                                     | 2,80                                                     | MHE 3250            | 84                         | 160 L6         |
|                                                     | 11,1                                                   | 8946                                                     | 1,50                                                     | MHE 3225            | 127                        | 160M4          |
|                                                     | 11,2                                                   | 8808                                                     | 1,14                                                     | MHE 3200            | 125                        | 160M4          |
|                                                     | 11,2                                                   | 8807                                                     | 3,31                                                     | MHE 3280            | 125                        | 160M4          |
|                                                     | 11,2                                                   | 8826                                                     | 2,19                                                     | MHE 3250            | 125                        | 160 M4         |
|                                                     | 12,9                                                   | 7681                                                     | 2,19                                                     | MHE 3225            | 69,9                       | 160L6          |
|                                                     | 12,9                                                   | 7664                                                     | 1,56                                                     | MHE 3200            | 69,8                       | 160L6          |
|                                                     | 13,0                                                   | 7600                                                     | 0,98                                                     | MHE 3180            | 108                        | 160M4          |
|                                                     | 13,1                                                   | 7521                                                     | 3,34                                                     | MHE 3250            | 68,5                       | 160 L6         |
|                                                     | 13,3                                                   | 7412                                                     | 2,12                                                     | MHE 3225            | 105                        | 160M4          |
|                                                     | 13,4                                                   | 7395                                                     | 1,45                                                     | MHE 3200            | 105                        | 160M4          |
|                                                     | 14,0                                                   | 7048                                                     | 2,23                                                     | MHE 3225            | 99,8                       | 160M4          |
|                                                     | 14,0                                                   | 7062                                                     | 3,64                                                     | MHE 3250            | 100                        | 160 M4         |
|                                                     | 14,1                                                   | 7032                                                     | 1,60                                                     | MHE 3200            | 99,6                       | 160M4          |
|                                                     | 14,7                                                   | 6720                                                     | 1,17                                                     | MHE 3180            | 61,2                       | 160L6          |
|                                                     | 14,9                                                   | 6651                                                     | 1,11                                                     | MHE 3180            | 94,2                       | 160M4          |
|                                                     | 16,3                                                   | 6059                                                     | 2,67                                                     | MHE 3225            | 85,8                       | 160M4          |
|                                                     | 16,4                                                   | 6045                                                     | 1,90                                                     | MHE 3200            | 85,6                       | 160M4          |
|                                                     | 16,7                                                   | 5933                                                     | 1,97                                                     | MHE 3200            | 54,0                       | 160L6          |
|                                                     | 17,0                                                   | 5816                                                     | 1,29                                                     | MHE 3180            | 82,4                       | 160M4          |
|                                                     | 17,0                                                   | 5805                                                     | 0,92                                                     | MHE 3160            | 82,2                       | 160M4          |
|                                                     | 19,0                                                   | 5202                                                     | 1,12                                                     | MHE 3160            | 47,4                       | 160L6          |
|                                                     | 19,6                                                   | 5046                                                     | 1,55                                                     | MHE 3180            | 45,9                       | 160L6          |
|                                                     | 20,0                                                   | 4938                                                     | 3,27                                                     | MHE 3225            | 69,9                       | 160M4          |
|                                                     | 20,1                                                   | 4927                                                     | 2,33                                                     | MHE 3200            | 69,8                       | 160M4          |
|                                                     | 21,5                                                   | 4601                                                     | 2,71                                                     | MHE 3200            | 41,9                       | 160L6          |
|                                                     | 22,9                                                   | 4320                                                     | 1,74                                                     | MHE 3180            | 61,2                       | 160M4          |
|                                                     | 22,9                                                   | 4312                                                     | 1,24                                                     | MHE 3160            | 61,1                       | 160M4          |
|                                                     | 24,6                                                   | 4025                                                     | 1,43                                                     | MHE 3160            | 36,6                       | 160L6          |
|                                                     | 25,3                                                   | 3904                                                     | 1,96                                                     | MHE 3180            | 35,5                       | 160L6          |
|                                                     | 25,9                                                   | 3814                                                     | 2,95                                                     | MHE 3200            | 54,0                       | 160M4          |
|                                                     | 28,0                                                   | 3528                                                     | 0,96                                                     | MHE 3140            | 50,0                       | 160M4          |
|                                                     | 28,8                                                   | 3434                                                     | 1,67                                                     | MHE 3160            | 31,3                       | 160L6          |
|                                                     | 29,1                                                   | 3398                                                     | 1,01                                                     | MHE 3140            | 30,9                       | 160L6          |
|                                                     | 29,6                                                   | 3344                                                     | 1,67                                                     | MHE 3160            | 47,4                       | 160M4          |
|                                                     | 29,7                                                   | 3331                                                     | 2,29                                                     | MHE 3180            | 30,3                       | 160L6          |
|                                                     | 30,5                                                   | 3244                                                     | 2,32                                                     | MHE 3180            | 45,9                       | 160M4          |
|                                                     | 34,7                                                   | 2847                                                     | 1,18                                                     | MHE 3140            | 40,3                       | 160M4          |
|                                                     | 35,3                                                   | 2801                                                     | 1,21                                                     | MHE 3140            | 25,5                       | 160L6          |



## MHE Performans Tabloları / Performance Tables

| P <sub>1</sub><br>Giriş Gücü<br>Input Power<br>[kW] | n <sub>2</sub><br>Çıkış Devri<br>Output Speed<br>[rpm] | M <sub>2</sub><br>Çıkış Momenti<br>Output Torque<br>[Nm] | f <sub>s</sub><br>Servis<br>Faktörü<br>Service<br>Factor | Redüktör<br>Gearbox | i<br>Tahvil Oranı<br>Ratio | Motor<br>Motor |
|-----------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|---------------------|----------------------------|----------------|
| 11                                                  | 36,6                                                   | 2760                                                     | 1,16                                                     | MHE 2140            | 24,6                       | 160L6          |
|                                                     | 37,5                                                   | 2640                                                     | 2,09                                                     | MHE 3160            | 24,0                       | 160L6          |
|                                                     | 37,9                                                   | 2662                                                     | 1,84                                                     | MHE 2160            | 23,8                       | 160L6          |
|                                                     | 38,2                                                   | 2588                                                     | 2,13                                                     | MHE 3160            | 36,6                       | 160M4          |
|                                                     | 39,4                                                   | 2510                                                     | 2,93                                                     | MHE 3180            | 35,5                       | 160M4          |
|                                                     | 44,0                                                   | 2292                                                     | 1,05                                                     | MHE 2125            | 20,5                       | 160L6          |
|                                                     | 44,8                                                   | 2208                                                     | 2,50                                                     | MHE 3160            | 31,3                       | 160M4          |
|                                                     | 44,8                                                   | 2250                                                     | 1,44                                                     | MHE 2140            | 20,1                       | 160L6          |
|                                                     | 45,3                                                   | 2184                                                     | 1,52                                                     | MHE 3140            | 30,9                       | 160M4          |
|                                                     | 46,2                                                   | 2141                                                     | 3,43                                                     | MHE 3180            | 30,3                       | 160M4          |
|                                                     | 46,4                                                   | 2175                                                     | 2,43                                                     | MHE 2160            | 19,4                       | 160L6          |
|                                                     | 54,9                                                   | 1801                                                     | 1,81                                                     | MHE 3140            | 25,5                       | 160M4          |
|                                                     | 55,4                                                   | 1821                                                     | 1,38                                                     | MHE 2125            | 16,2                       | 160L6          |
|                                                     | 56,5                                                   | 1787                                                     | 1,98                                                     | MHE 2140            | 15,9                       | 160L6          |
|                                                     | 56,9                                                   | 1774                                                     | 1,74                                                     | MHE 2140            | 24,6                       | 160M4          |
|                                                     | 58,3                                                   | 1697                                                     | 3,13                                                     | MHE 3160            | 24,0                       | 160M4          |
|                                                     | 58,9                                                   | 1712                                                     | 2,76                                                     | MHE 2160            | 23,8                       | 160M4          |
|                                                     | 59,9                                                   | 1685                                                     | 1,26                                                     | MHE 2125            | 23,4                       | 160M4          |
|                                                     | 68,5                                                   | 1474                                                     | 1,57                                                     | MHE 2125            | 20,5                       | 160M4          |
|                                                     | 69,8                                                   | 1446                                                     | 2,15                                                     | MHE 2140            | 20,1                       | 160M4          |
|                                                     | 71,7                                                   | 1408                                                     | 1,92                                                     | MHE 2125            | 12,6                       | 160L6          |
|                                                     | 74,8                                                   | 1349                                                     | 2,56                                                     | MHE 2140            | 12,0                       | 160L6          |
|                                                     | 86,2                                                   | 1170                                                     | 2,07                                                     | MHE 2125            | 16,2                       | 160M4          |
|                                                     | 87,8                                                   | 1149                                                     | 2,97                                                     | MHE 2140            | 15,9                       | 160M4          |
|                                                     | 88,8                                                   | 1137                                                     | 2,39                                                     | MHE 2125            | 10,1                       | 160L6          |
|                                                     | 111                                                    | 905                                                      | 2,87                                                     | MHE 2125            | 12,6                       | 160M4          |
|                                                     | 116                                                    | 873                                                      | 2,88                                                     | MHE 2125            | 7,79                       | 160L6          |
| 15                                                  | 7,20                                                   | 18721                                                    | 1,07                                                     | MHE 3250            | 125                        | 180 L6         |
|                                                     | 7,22                                                   | 18681                                                    | 1,62                                                     | MHE 3280            | 125                        | 180L6          |
|                                                     | 7,30                                                   | 18471                                                    | 2,33                                                     | MHE 3320            | 123                        | 180L6          |
|                                                     | 8,58                                                   | 15722                                                    | 1,04                                                     | MHE 3225            | 105                        | 180L6          |
|                                                     | 8,85                                                   | 15226                                                    | 3,25                                                     | MHE 3320            | 102                        | 180L6          |
|                                                     | 8,99                                                   | 14996                                                    | 2,38                                                     | MHE 3280            | 100                        | 180L6          |
|                                                     | 9,00                                                   | 14981                                                    | 1,78                                                     | MHE 3250            | 100                        | 180 L6         |
|                                                     | 9,02                                                   | 14951                                                    | 1,10                                                     | MHE 3225            | 99,8                       | 180L6          |
|                                                     | 10,5                                                   | 12852                                                    | 1,31                                                     | MHE 3225            | 85,8                       | 180L6          |
|                                                     | 10,5                                                   | 12822                                                    | 0,93                                                     | MHE 3200            | 85,6                       | 180L6          |
|                                                     | 10,7                                                   | 12578                                                    | 2,05                                                     | MHE 3250            | 84,0                       | 180 L6         |
|                                                     | 10,7                                                   | 12584                                                    | 2,85                                                     | MHE 3280            | 84,0                       | 180L6          |
|                                                     | 11,1                                                   | 12199                                                    | 1,10                                                     | MHE 3225            | 127                        | 160L4          |
|                                                     | 11,2                                                   | 12035                                                    | 1,60                                                     | MHE 3250            | 125                        | 160 L4         |
|                                                     | 11,2                                                   | 12009                                                    | 2,43                                                     | MHE 3280            | 125                        | 160L4          |
|                                                     | 11,4                                                   | 11874                                                    | 3,49                                                     | MHE 3320            | 123                        | 160L4          |
|                                                     | 12,9                                                   | 10474                                                    | 1,61                                                     | MHE 3225            | 69,9                       | 180L6          |
|                                                     | 12,9                                                   | 10450                                                    | 1,14                                                     | MHE 3200            | 69,8                       | 180L6          |
|                                                     | 13,1                                                   | 10256                                                    | 2,45                                                     | MHE 3250            | 68,5                       | 180 L6         |
|                                                     | 13,1                                                   | 10262                                                    | 3,40                                                     | MHE 3280            | 68,5                       | 180L6          |

| P <sub>1</sub><br>Giriş Gücü<br>Input Power<br>[kW] | n <sub>2</sub><br>Çıkış Devri<br>Output Speed<br>[rpm] | M <sub>2</sub><br>Çıkış Momenti<br>Output Torque<br>[Nm] | f <sub>s</sub><br>Servis<br>Faktörü<br>Service<br>Factor | Redüktör<br>Gearbox | i<br>Tahvil Oranı<br>Ratio | Motor<br>Motor |
|-----------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|---------------------|----------------------------|----------------|
| 15                                                  | 13,3                                                   | 10107                                                    | 1,56                                                     | MHE 3225            | 105                        | 160L4          |
|                                                     | 13,4                                                   | 10084                                                    | 1,07                                                     | MHE 3200            | 105                        | 160L4          |
|                                                     | 14,0                                                   | 9611                                                     | 1,64                                                     | MHE 3225            | 99,8                       | 160L4          |
|                                                     | 14,0                                                   | 9630                                                     | 2,67                                                     | MHE 3250            | 100                        | 160 L4         |
|                                                     | 14,1                                                   | 9589                                                     | 1,17                                                     | MHE 3200            | 99,6                       | 160L4          |
|                                                     | 16,3                                                   | 8262                                                     | 1,96                                                     | MHE 3225            | 85,8                       | 160L4          |
|                                                     | 16,4                                                   | 8243                                                     | 1,40                                                     | MHE 3200            | 85,6                       | 160L4          |
|                                                     | 16,7                                                   | 8091                                                     | 1,45                                                     | MHE 3200            | 54,0                       | 180L6          |
|                                                     | 16,7                                                   | 8086                                                     | 3,07                                                     | MHE 3250            | 84,0                       | 160 L4         |
|                                                     | 17,0                                                   | 7931                                                     | 0,95                                                     | MHE 3180            | 82,4                       | 160L4          |
|                                                     | 17,2                                                   | 7854                                                     | 3,52                                                     | MHE 3250            | 52,4                       | 180 L6         |
|                                                     | 17,5                                                   | 7726                                                     | 2,13                                                     | MHE 3225            | 51,6                       | 180L6          |
|                                                     | 19,6                                                   | 6881                                                     | 1,14                                                     | MHE 3180            | 45,9                       | 180L6          |
|                                                     | 20,0                                                   | 6734                                                     | 2,40                                                     | MHE 3225            | 69,9                       | 160L4          |
|                                                     | 20,1                                                   | 6718                                                     | 1,71                                                     | MHE 3200            | 69,8                       | 160L4          |
|                                                     | 20,4                                                   | 6593                                                     | 3,66                                                     | MHE 3250            | 68,5                       | 160 L4         |
|                                                     | 21,5                                                   | 6274                                                     | 1,99                                                     | MHE 3200            | 41,9                       | 180L6          |
|                                                     | 22,5                                                   | 5991                                                     | 2,93                                                     | MHE 3225            | 40,0                       | 180L6          |
|                                                     | 22,9                                                   | 5891                                                     | 1,28                                                     | MHE 3180            | 61,2                       | 160L4          |
|                                                     | 22,9                                                   | 5880                                                     | 0,91                                                     | MHE 3160            | 61,1                       | 160L4          |
|                                                     | 24,6                                                   | 5489                                                     | 1,05                                                     | MHE 3160            | 36,6                       | 180L6          |
|                                                     | 25,3                                                   | 5324                                                     | 1,44                                                     | MHE 3180            | 35,5                       | 180L6          |
|                                                     | 25,9                                                   | 5201                                                     | 2,16                                                     | MHE 3200            | 54,0                       | 160L4          |
|                                                     | 28,0                                                   | 4822                                                     | 2,59                                                     | MHE 3200            | 32,2                       | 180L6          |
|                                                     | 28,8                                                   | 4683                                                     | 1,23                                                     | MHE 3160            | 31,3                       | 180L6          |
|                                                     | 29,6                                                   | 4560                                                     | 1,23                                                     | MHE 3160            | 47,4                       | 160L4          |
|                                                     | 29,7                                                   | 4542                                                     | 1,68                                                     | MHE 3180            | 30,3                       | 180L6          |
|                                                     | 30,5                                                   | 4423                                                     | 1,70                                                     | MHE 3180            | 45,9                       | 160L4          |
|                                                     | 33,4                                                   | 4033                                                     | 2,98                                                     | MHE 3200            | 41,9                       | 160L4          |
|                                                     | 34,4                                                   | 3916                                                     | 3,05                                                     | MHE 3200            | 26,1                       | 180L6          |
|                                                     | 35,3                                                   | 3820                                                     | 0,89                                                     | MHE 3140            | 25,5                       | 180L6          |
|                                                     | 37,5                                                   | 3600                                                     | 1,53                                                     | MHE 3160            | 24,0                       | 180L6          |
|                                                     | 37,9                                                   | 3631                                                     | 1,35                                                     | MHE 2160            | 23,8                       | 180L6          |
|                                                     | 38,2                                                   | 3529                                                     | 1,56                                                     | MHE 3160            | 36,6                       | 160L4          |
|                                                     | 38,5                                                   | 3574                                                     | 2,10                                                     | MHE 2180            | 23,4                       | 180L6          |
|                                                     | 38,6                                                   | 3490                                                     | 2,17                                                     | MHE 3180            | 23,3                       | 180L6          |
|                                                     | 39,4                                                   | 3423                                                     | 2,15                                                     | MHE 3180            | 35,5                       | 160L4          |
|                                                     | 44,8                                                   | 3010                                                     | 1,83                                                     | MHE 3160            | 31,3                       | 160L4          |
|                                                     | 44,8                                                   | 3068                                                     | 1,05                                                     | MHE 2140            | 20,1                       | 180L6          |
|                                                     | 45,3                                                   | 2979                                                     | 1,11                                                     | MHE 3140            | 30,9                       | 160L4          |
|                                                     | 46,2                                                   | 2920                                                     | 2,52                                                     | MHE 3180            | 30,3                       | 160L4          |
|                                                     | 46,3                                                   | 2970                                                     | 2,54                                                     | MHE 2180            | 19,4                       | 180L6          |
|                                                     | 46,4                                                   | 2966                                                     | 1,78                                                     | MHE 2160            | 19,4                       | 180L6          |
|                                                     | 53,1                                                   | 2593                                                     | 2,04                                                     | MHE 2160            | 17,0                       | 180L6          |
|                                                     | 54,9                                                   | 2456                                                     | 1,33                                                     | MHE 3140            | 25,5                       | 160L4          |
|                                                     | 55,4                                                   | 2483                                                     | 1,01                                                     | MHE 2125            | 16,2                       | 180L6          |
|                                                     | 56,5                                                   | 2437                                                     | 1,46                                                     | MHE 2140            | 15,9                       | 180L6          |



## MHE Performans Tabloları / Performance Tables

| P <sub>1</sub><br>Giriş Gücü<br>Input Power<br>[kW] | n <sub>2</sub><br>Çıkış Devri<br>Output Speed<br>[rpm] | M <sub>2</sub><br>Çıkış Momenti<br>Output Torque<br>[Nm] | f <sub>s</sub><br>Servis<br>Faktörü<br>Service<br>Factor | Redüktör<br>Gearbox | i<br>Tahvil Oranı<br>Ratio | Motor<br>Motor |
|-----------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|---------------------|----------------------------|----------------|
| <b>15</b>                                           | 56,9                                                   | 2419                                                     | 1,28                                                     | MHE 2140            | 24,6                       | 160L4          |
|                                                     | 58,3                                                   | 2314                                                     | 2,29                                                     | MHE 3160            | 24,0                       | 160L4          |
|                                                     | 58,9                                                   | 2334                                                     | 2,02                                                     | MHE 2160            | 23,8                       | 160L4          |
|                                                     | 59,9                                                   | 2298                                                     | 0,93                                                     | MHE 2125            | 23,4                       | 160L4          |
|                                                     | 68,4                                                   | 2010                                                     | 2,85                                                     | MHE 2160            | 13,2                       | 180L6          |
|                                                     | 68,5                                                   | 2010                                                     | 1,15                                                     | MHE 2125            | 20,5                       | 160L4          |
|                                                     | 69,8                                                   | 1972                                                     | 1,58                                                     | MHE 2140            | 20,1                       | 160L4          |
|                                                     | 71,7                                                   | 1920                                                     | 1,41                                                     | MHE 2125            | 12,6                       | 180L6          |
|                                                     | 72,2                                                   | 1906                                                     | 2,66                                                     | MHE 2160            | 19,4                       | 160L4          |
|                                                     | 74,8                                                   | 1839                                                     | 1,88                                                     | MHE 2140            | 12,0                       | 180L6          |
|                                                     | 86,2                                                   | 1596                                                     | 1,52                                                     | MHE 2125            | 16,2                       | 160L4          |
|                                                     | 87,8                                                   | 1566                                                     | 2,18                                                     | MHE 2140            | 15,9                       | 160L4          |
|                                                     | 88,8                                                   | 1550                                                     | 1,75                                                     | MHE 2125            | 10,1                       | 180L6          |
|                                                     | 92,8                                                   | 1483                                                     | 2,44                                                     | MHE 2140            | 9,70                       | 180L6          |
|                                                     | 111                                                    | 1234                                                     | 2,11                                                     | MHE 2125            | 12,6                       | 160L4          |
|                                                     | 116                                                    | 1191                                                     | 2,11                                                     | MHE 2125            | 7,79                       | 180L6          |
|                                                     | 116                                                    | 1182                                                     | 2,81                                                     | MHE 2140            | 12,0                       | 160L4          |
|                                                     | 138                                                    | 996                                                      | 2,62                                                     | MHE 2125            | 10,1                       | 160L4          |
|                                                     | 140                                                    | 981                                                      | 2,38                                                     | MHE 2125            | 6,42                       | 180L6          |
|                                                     | 180                                                    | 766                                                      | 3,16                                                     | MHE 2125            | 7,79                       | 160L4          |
| <b>18,5</b>                                         | 7,22                                                   | 23040                                                    | 1,31                                                     | MHE 3280            | 125                        | 200LA6         |
|                                                     | 7,30                                                   | 22781                                                    | 1,89                                                     | MHE 3320            | 123                        | 200LA6         |
|                                                     | 7,40                                                   | 22474                                                    | 2,79                                                     | MHE 3360            | 122                        | 200LA6         |
|                                                     | 8,85                                                   | 18779                                                    | 2,64                                                     | MHE 3320            | 102                        | 200LA6         |
|                                                     | 8,99                                                   | 18495                                                    | 1,93                                                     | MHE 3280            | 100                        | 200LA6         |
|                                                     | 9,00                                                   | 18476                                                    | 1,45                                                     | MHE 3250            | 100                        | 200 LA6        |
|                                                     | 10,5                                                   | 15851                                                    | 1,06                                                     | MHE 3225            | 85,8                       | 200LA6         |
|                                                     | 10,7                                                   | 15513                                                    | 1,66                                                     | MHE 3250            | 84,0                       | 200 LA6        |
|                                                     | 10,7                                                   | 15520                                                    | 2,31                                                     | MHE 3280            | 84,0                       | 200LA6         |
|                                                     | 11,1                                                   | 15045                                                    | 0,89                                                     | MHE 3225            | 127                        | 180M4          |
|                                                     | 11,1                                                   | 15027                                                    | 3,35                                                     | MHE 3320            | 81,3                       | 200LA6         |
|                                                     | 11,2                                                   | 14843                                                    | 1,30                                                     | MHE 3250            | 125                        | 180 M4         |
|                                                     | 11,2                                                   | 14811                                                    | 1,97                                                     | MHE 3280            | 125                        | 180M4          |
|                                                     | 11,4                                                   | 14645                                                    | 2,83                                                     | MHE 3320            | 123                        | 180M4          |
|                                                     | 12,9                                                   | 12919                                                    | 1,30                                                     | MHE 3225            | 69,9                       | 200LA6         |
|                                                     | 13,1                                                   | 12649                                                    | 1,99                                                     | MHE 3250            | 68,5                       | 200 LA6        |
|                                                     | 13,1                                                   | 12656                                                    | 2,75                                                     | MHE 3280            | 68,5                       | 200LA6         |
|                                                     | 13,3                                                   | 12465                                                    | 1,26                                                     | MHE 3225            | 105                        | 180M4          |
|                                                     | 14,0                                                   | 11878                                                    | 2,16                                                     | MHE 3250            | 100                        | 180 M4         |
|                                                     | 14,0                                                   | 11889                                                    | 2,88                                                     | MHE 3280            | 100                        | 180M4          |
|                                                     | 14,0                                                   | 11854                                                    | 1,33                                                     | MHE 3225            | 99,8                       | 180M4          |
|                                                     | 14,1                                                   | 11826                                                    | 0,95                                                     | MHE 3200            | 99,6                       | 180M4          |
|                                                     | 16,3                                                   | 10190                                                    | 1,59                                                     | MHE 3225            | 85,8                       | 180M4          |
|                                                     | 16,4                                                   | 10166                                                    | 1,13                                                     | MHE 3200            | 85,6                       | 180M4          |
|                                                     | 16,7                                                   | 9979                                                     | 1,17                                                     | MHE 3200            | 54,0                       | 200LA6         |
|                                                     | 16,7                                                   | 9972                                                     | 2,49                                                     | MHE 3250            | 84,0                       | 180 M4         |
|                                                     | 16,7                                                   | 9977                                                     | 3,46                                                     | MHE 3280            | 84,0                       | 180M4          |

| P <sub>1</sub><br>Giriş Gücü<br>Input Power<br>[kW] | n <sub>2</sub><br>Çıkış Devri<br>Output Speed<br>[rpm] | M <sub>2</sub><br>Çıkış Momenti<br>Output Torque<br>[Nm] | f <sub>s</sub><br>Servis<br>Faktörü<br>Service<br>Factor | Redüktör<br>Gearbox | i<br>Tahvil Oranı<br>Ratio | Motor<br>Motor |
|-----------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|---------------------|----------------------------|----------------|
| <b>18,5</b>                                         | 17,2                                                   | 9687                                                     | 2,85                                                     | MHE 3250            | 52,4                       | 200 LA6        |
|                                                     | 17,5                                                   | 9528                                                     | 1,73                                                     | MHE 3225            | 51,6                       | 200LA6         |
|                                                     | 20,0                                                   | 8305                                                     | 1,95                                                     | MHE 3225            | 69,9                       | 180M4          |
|                                                     | 20,1                                                   | 8286                                                     | 1,39                                                     | MHE 3200            | 69,8                       | 180M4          |
|                                                     | 20,4                                                   | 8131                                                     | 2,97                                                     | MHE 3250            | 68,5                       | 180 M4         |
|                                                     | 21,5                                                   | 7738                                                     | 1,61                                                     | MHE 3200            | 41,9                       | 200LA6         |
|                                                     | 22,2                                                   | 7499                                                     | 3,58                                                     | MHE 3250            | 40,6                       | 200 LA6        |
|                                                     | 22,5                                                   | 7389                                                     | 2,37                                                     | MHE 3225            | 40,0                       | 200LA6         |
|                                                     | 22,9                                                   | 7265                                                     | 1,04                                                     | MHE 3180            | 61,2                       | 180M4          |
|                                                     | 25,3                                                   | 6566                                                     | 1,16                                                     | MHE 3180            | 35,5                       | 200LA6         |
|                                                     | 25,9                                                   | 6415                                                     | 1,75                                                     | MHE 3200            | 54,0                       | 180M4          |
|                                                     | 26,7                                                   | 6227                                                     | 4,26                                                     | MHE 3250            | 52,4                       | 180 M4         |
|                                                     | 27,1                                                   | 6125                                                     | 2,58                                                     | MHE 3225            | 51,6                       | 180M4          |
|                                                     | 28,0                                                   | 5947                                                     | 2,10                                                     | MHE 3200            | 32,2                       | 200LA6         |
|                                                     | 28,8                                                   | 5776                                                     | 0,99                                                     | MHE 3160            | 31,3                       | 200LA6         |
|                                                     | 29,3                                                   | 5680                                                     | 3,09                                                     | MHE 3225            | 30,7                       | 200LA6         |
|                                                     | 29,4                                                   | 5659                                                     | 4,77                                                     | MHE 3250            | 30,6                       | 200 LA6        |
|                                                     | 29,6                                                   | 5624                                                     | 1,00                                                     | MHE 3160            | 47,4                       | 180M4          |
|                                                     | 29,7                                                   | 5602                                                     | 1,36                                                     | MHE 3180            | 30,3                       | 200LA6         |
|                                                     | 30,5                                                   | 5455                                                     | 1,38                                                     | MHE 3180            | 45,9                       | 180M4          |
|                                                     | 33,4                                                   | 4974                                                     | 2,41                                                     | MHE 3200            | 41,9                       | 180M4          |
|                                                     | 34,4                                                   | 4830                                                     | 2,48                                                     | MHE 3200            | 26,1                       | 200LA6         |
|                                                     | 36,0                                                   | 4619                                                     | 3,36                                                     | MHE 3225            | 25,0                       | 200LA6         |
|                                                     | 36,0                                                   | 4711                                                     | 4,14                                                     | MHE 2250            | 25,0                       | 200 LA6        |
|                                                     | 37,5                                                   | 4440                                                     | 1,24                                                     | MHE 3160            | 24,0                       | 200LA6         |
|                                                     | 37,9                                                   | 4478                                                     | 1,10                                                     | MHE 2160            | 23,8                       | 200LA6         |
|                                                     | 37,9                                                   | 4478                                                     | 3,19                                                     | MHE 2225            | 23,8                       | 200LA6         |
|                                                     | 38,2                                                   | 4352                                                     | 1,27                                                     | MHE 3160            | 36,6                       | 180M4          |
|                                                     | 38,5                                                   | 4408                                                     | 1,70                                                     | MHE 2180            | 23,4                       | 200LA6         |
|                                                     | 38,5                                                   | 4408                                                     | 2,30                                                     | MHE 2200            | 23,4                       | 200LA6         |
|                                                     | 38,6                                                   | 4305                                                     | 1,76                                                     | MHE 3180            | 23,3                       | 200LA6         |
|                                                     | 39,4                                                   | 4221                                                     | 1,74                                                     | MHE 3180            | 35,5                       | 180M4          |
|                                                     | 43,5                                                   | 3823                                                     | 3,14                                                     | MHE 3200            | 32,2                       | 180M4          |
|                                                     | 44,8                                                   | 3713                                                     | 1,49                                                     | MHE 3160            | 31,3                       | 180M4          |
|                                                     | 45,3                                                   | 3674                                                     | 0,90                                                     | MHE 3140            | 30,9                       | 180M4          |
|                                                     | 45,8                                                   | 3701                                                     | 2,95                                                     | MHE 2200            | 19,6                       | 200LA6         |
|                                                     | 46,2                                                   | 3601                                                     | 2,04                                                     | MHE 3180            | 30,3                       | 180M4          |
|                                                     | 46,3                                                   | 3663                                                     | 2,06                                                     | MHE 2180            | 19,4                       | 200LA6         |
|                                                     | 46,4                                                   | 3658                                                     | 1,44                                                     | MHE 2160            | 19,4                       | 200LA6         |
|                                                     | 53,0                                                   | 3203                                                     | 2,35                                                     | MHE 2180            | 17,0                       | 200LA6         |
|                                                     | 53,1                                                   | 3198                                                     | 1,66                                                     | MHE 2160            | 17,0                       | 200LA6         |
|                                                     | 54,9                                                   | 3029                                                     | 1,08                                                     | MHE 3140            | 25,5                       | 180M4          |
|                                                     | 56,9                                                   | 2984                                                     | 1,04                                                     | MHE 2140            | 24,6                       | 180M4          |
|                                                     | 58,3                                                   | 2854                                                     | 1,86                                                     | MHE 3160            | 24,0                       | 180M4          |
|                                                     | 58,9                                                   | 2878                                                     | 1,64                                                     | MHE 2160            | 23,8                       | 180M4          |
|                                                     | 59,9                                                   | 2834                                                     | 2,54                                                     | MHE 2180            | 23,4                       | 180M4          |
|                                                     | 60,1                                                   | 2767                                                     | 2,63                                                     | MHE 3180            | 23,3                       | 180M4          |



## MHE Performans Tabloları / Performance Tables

| P <sub>1</sub><br>Giriş Gücü<br>Input Power<br>[kW] | n <sub>2</sub><br>Çıkış Devri<br>Output Speed<br>[rpm] | M <sub>2</sub><br>Çıkış Momenti<br>Output Torque<br>[Nm] | f <sub>s</sub><br>Servis<br>Faktörü<br>Service<br>Factor | Redüktör<br>Gearbox | Tahvil Oranı<br>Ratio | Motor<br>Motor |
|-----------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|---------------------|-----------------------|----------------|
| 18,5                                                | 68,4                                                   | 2479                                                     | 2,31                                                     | MHE 2160            | 13,2                  | 200LA6         |
|                                                     | 68,5                                                   | 2479                                                     | 0,94                                                     | MHE 2125            | 20,5                  | 180M4          |
|                                                     | 69,8                                                   | 2432                                                     | 1,28                                                     | MHE 2140            | 20,1                  | 180M4          |
|                                                     | 70,5                                                   | 2406                                                     | 3,07                                                     | MHE 2180            | 12,8                  | 200LA6         |
|                                                     | 72,1                                                   | 2355                                                     | 3,08                                                     | MHE 2180            | 19,4                  | 180M4          |
|                                                     | 72,2                                                   | 2351                                                     | 2,16                                                     | MHE 2160            | 19,4                  | 180M4          |
|                                                     | 82,5                                                   | 2056                                                     | 2,48                                                     | MHE 2160            | 17,0                  | 180M4          |
|                                                     | 86,2                                                   | 1968                                                     | 1,23                                                     | MHE 2125            | 16,2                  | 180M4          |
|                                                     | 87,8                                                   | 1932                                                     | 1,77                                                     | MHE 2140            | 15,9                  | 180M4          |
|                                                     | 88,4                                                   | 1919                                                     | 2,94                                                     | MHE 2160            | 10,2                  | 200LA6         |
|                                                     | 106                                                    | 1594                                                     | 3,45                                                     | MHE 2160            | 13,2                  | 180M4          |
|                                                     | 109                                                    | 1559                                                     | 3,48                                                     | MHE 2160            | 8,27                  | 200LA6         |
|                                                     | 111                                                    | 1522                                                     | 1,71                                                     | MHE 2125            | 12,6                  | 180M4          |
|                                                     | 116                                                    | 1458                                                     | 2,28                                                     | MHE 2140            | 12,0                  | 180M4          |
|                                                     | 138                                                    | 1229                                                     | 2,12                                                     | MHE 2125            | 10,1                  | 180M4          |
|                                                     | 144                                                    | 1176                                                     | 2,96                                                     | MHE 2140            | 9,70                  | 180M4          |
|                                                     | 180                                                    | 944                                                      | 2,56                                                     | MHE 2125            | 7,79                  | 180M4          |
|                                                     | 218                                                    | 778                                                      | 2,89                                                     | MHE 2125            | 6,42                  | 180M4          |
| 22                                                  | 7,22                                                   | 27399                                                    | 1,11                                                     | MHE 3280            | 125                   | 200LB6         |
|                                                     | 7,30                                                   | 27091                                                    | 1,59                                                     | MHE 3320            | 123                   | 200LB6         |
|                                                     | 7,40                                                   | 26726                                                    | 2,34                                                     | MHE 3360            | 122                   | 200LB6         |
|                                                     | 8,62                                                   | 22936                                                    | 3,17                                                     | MHE 3360            | 104                   | 200LB6         |
|                                                     | 8,85                                                   | 22332                                                    | 2,22                                                     | MHE 3320            | 102                   | 200LB6         |
|                                                     | 8,99                                                   | 21994                                                    | 1,62                                                     | MHE 3280            | 100                   | 200LB6         |
|                                                     | 9,00                                                   | 22420                                                    | 1,19                                                     | MHE 2250            | 100                   | 200 LB6        |
|                                                     | 10,7                                                   | 18447                                                    | 1,40                                                     | MHE 3250            | 84,0                  | 200 LB6        |
|                                                     | 10,7                                                   | 18456                                                    | 1,94                                                     | MHE 3280            | 84,0                  | 200LB6         |
|                                                     | 11,1                                                   | 17870                                                    | 2,82                                                     | MHE 3320            | 81,3                  | 200LB6         |
|                                                     | 11,2                                                   | 17652                                                    | 1,09                                                     | MHE 3250            | 125,0                 | 180 L4         |
|                                                     | 11,2                                                   | 17613                                                    | 1,65                                                     | MHE 3280            | 125                   | 180L4          |
|                                                     | 11,4                                                   | 17416                                                    | 2,38                                                     | MHE 3320            | 123                   | 180L4          |
|                                                     | 12,9                                                   | 15363                                                    | 1,09                                                     | MHE 3225            | 69,9                  | 200LB6         |
|                                                     | 13,1                                                   | 15042                                                    | 1,67                                                     | MHE 3250            | 68,5                  | 200 LB6        |
|                                                     | 13,1                                                   | 15051                                                    | 2,31                                                     | MHE 3280            | 68,5                  | 200LB6         |
|                                                     | 13,3                                                   | 14824                                                    | 1,06                                                     | MHE 3225            | 105                   | 180L4          |
|                                                     | 13,8                                                   | 14356                                                    | 3,32                                                     | MHE 3320            | 102                   | 180L4          |
|                                                     | 14,0                                                   | 14125                                                    | 1,82                                                     | MHE 3250            | 100                   | 180 L4         |
|                                                     | 14,0                                                   | 14139                                                    | 2,42                                                     | MHE 3280            | 100                   | 180L4          |
|                                                     | 14,0                                                   | 14096                                                    | 1,12                                                     | MHE 3225            | 99,8                  | 180L4          |
|                                                     | 16,3                                                   | 12117                                                    | 1,33                                                     | MHE 3225            | 85,8                  | 180L4          |
|                                                     | 16,4                                                   | 12089                                                    | 0,95                                                     | MHE 3200            | 85,6                  | 180L4          |
|                                                     | 16,7                                                   | 11867                                                    | 0,99                                                     | MHE 3200            | 54,0                  | 200LB6         |
|                                                     | 16,7                                                   | 11859                                                    | 2,09                                                     | MHE 3250            | 84,0                  | 180 L4         |
|                                                     | 16,7                                                   | 11865                                                    | 2,91                                                     | MHE 3280            | 84,0                  | 180L4          |
|                                                     | 16,8                                                   | 11799                                                    | 3,10                                                     | MHE 3280            | 53,7                  | 200LB6         |
|                                                     | 17,2                                                   | 11520                                                    | 2,40                                                     | MHE 3250            | 52,4                  | 200 LB6        |
|                                                     | 17,5                                                   | 11331                                                    | 1,45                                                     | MHE 3225            | 51,6                  | 200LB6         |

| P <sub>1</sub><br>Giriş Gücü<br>Input Power<br>[kW] | n <sub>2</sub><br>Çıkış Devri<br>Output Speed<br>[rpm] | M <sub>2</sub><br>Çıkış Momenti<br>Output Torque<br>[Nm] | f <sub>s</sub><br>Servis<br>Faktörü<br>Service<br>Factor | Redüktör<br>Gearbox | Tahvil Oranı<br>Ratio | Motor<br>Motor |
|-----------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|---------------------|-----------------------|----------------|
| 22                                                  | 20,0                                                   | 9876                                                     | 1,64                                                     | MHE 3225            | 69,9                  | 180L4          |
|                                                     | 20,1                                                   | 9853                                                     | 1,17                                                     | MHE 3200            | 69,8                  | 180L4          |
|                                                     | 20,4                                                   | 9670                                                     | 2,50                                                     | MHE 3250            | 68,5                  | 180 L4         |
|                                                     | 20,4                                                   | 9675                                                     | 3,46                                                     | MHE 3280            | 68,5                  | 180L4          |
|                                                     | 21,5                                                   | 9202                                                     | 1,36                                                     | MHE 3200            | 41,9                  | 200LB6         |
|                                                     | 22,2                                                   | 8918                                                     | 3,01                                                     | MHE 3250            | 40,6                  | 200 LB6        |
|                                                     | 22,5                                                   | 8786                                                     | 2,00                                                     | MHE 3225            | 40,0                  | 200LB6         |
|                                                     | 25,3                                                   | 7809                                                     | 0,98                                                     | MHE 3180            | 35,5                  | 200LB6         |
|                                                     | 25,9                                                   | 7629                                                     | 1,47                                                     | MHE 3200            | 54,0                  | 180L4          |
|                                                     | 26,7                                                   | 7406                                                     | 3,59                                                     | MHE 3250            | 52,4                  | 180 L4         |
|                                                     | 27,1                                                   | 7284                                                     | 2,17                                                     | MHE 3225            | 51,6                  | 180L4          |
|                                                     | 28,0                                                   | 7073                                                     | 1,76                                                     | MHE 3200            | 32,2                  | 200LB6         |
|                                                     | 29,3                                                   | 6754                                                     | 2,60                                                     | MHE 3225            | 30,7                  | 200LB6         |
|                                                     | 29,4                                                   | 6730                                                     | 4,01                                                     | MHE 3250            | 30,6                  | 200 LB6        |
|                                                     | 29,7                                                   | 6662                                                     | 1,15                                                     | MHE 3180            | 30,3                  | 200LB6         |
|                                                     | 30,5                                                   | 6487                                                     | 1,16                                                     | MHE 3180            | 45,9                  | 180L4          |
|                                                     | 33,4                                                   | 5915                                                     | 2,03                                                     | MHE 3200            | 41,9                  | 180L4          |
|                                                     | 34,4                                                   | 5743                                                     | 2,08                                                     | MHE 3200            | 26,1                  | 200LB6         |
|                                                     | 35,0                                                   | 5648                                                     | 2,99                                                     | MHE 3225            | 40,0                  | 180L4          |
|                                                     | 36,0                                                   | 5493                                                     | 2,82                                                     | MHE 3225            | 25,0                  | 200LB6         |
|                                                     | 36,0                                                   | 5603                                                     | 3,48                                                     | MHE 2250            | 25,0                  | 200 LB6        |
|                                                     | 37,5                                                   | 5280                                                     | 1,05                                                     | MHE 3160            | 24,0                  | 200LB6         |
|                                                     | 37,9                                                   | 5325                                                     | 0,92                                                     | MHE 2160            | 23,8                  | 200LB6         |
|                                                     | 37,9                                                   | 5325                                                     | 2,68                                                     | MHE 2225            | 23,8                  | 200LB6         |
|                                                     | 38,2                                                   | 5175                                                     | 1,07                                                     | MHE 3160            | 36,6                  | 180L4          |
|                                                     | 38,5                                                   | 5242                                                     | 1,43                                                     | MHE 2180            | 23,4                  | 200LB6         |
|                                                     | 38,5                                                   | 5242                                                     | 1,93                                                     | MHE 2200            | 23,4                  | 200LB6         |
|                                                     | 38,6                                                   | 5119                                                     | 1,48                                                     | MHE 3180            | 23,3                  | 200LB6         |
|                                                     | 39,4                                                   | 5020                                                     | 1,46                                                     | MHE 3180            | 35,5                  | 180L4          |
|                                                     | 43,5                                                   | 4547                                                     | 2,64                                                     | MHE 3200            | 32,2                  | 180L4          |
|                                                     | 44,8                                                   | 4415                                                     | 1,25                                                     | MHE 3160            | 31,3                  | 180L4          |
|                                                     | 45,8                                                   | 4401                                                     | 2,48                                                     | MHE 2200            | 19,6                  | 200LB6         |
|                                                     | 46,2                                                   | 4283                                                     | 1,72                                                     | MHE 3180            | 30,3                  | 180L4          |
|                                                     | 46,3                                                   | 4356                                                     | 1,73                                                     | MHE 2180            | 19,4                  | 200LB6         |
|                                                     | 46,4                                                   | 4349                                                     | 1,21                                                     | MHE 2160            | 19,4                  | 200LB6         |
|                                                     | 53,0                                                   | 3809                                                     | 1,98                                                     | MHE 2180            | 17,0                  | 200LB6         |
|                                                     | 53,1                                                   | 3802                                                     | 1,39                                                     | MHE 2160            | 17,0                  | 200LB6         |
|                                                     | 53,6                                                   | 3692                                                     | 3,11                                                     | MHE 3200            | 26,1                  | 180L4          |
|                                                     | 58,3                                                   | 3394                                                     | 1,56                                                     | MHE 3160            | 24,0                  | 180L4          |
|                                                     | 58,9                                                   | 3423                                                     | 1,38                                                     | MHE 2160            | 23,8                  | 180L4          |
|                                                     | 59,9                                                   | 3370                                                     | 2,14                                                     | MHE 2180            | 23,4                  | 180L4          |
|                                                     | 60,1                                                   | 3291                                                     | 2,21                                                     | MHE 3180            | 23,3                  | 180L4          |
|                                                     | 68,4                                                   | 2948                                                     | 1,94                                                     | MHE 2160            | 13,2                  | 200LB6         |
|                                                     | 69,8                                                   | 2893                                                     | 1,08                                                     | MHE 2140            | 20,1                  | 180L4          |
|                                                     | 70,5                                                   | 2861                                                     | 2,58                                                     | MHE 2180            | 12,8                  | 200LB6         |
|                                                     | 72,1                                                   | 2800                                                     | 2,59                                                     | MHE 2180            | 19,4                  | 180L4          |
|                                                     | 72,2                                                   | 2796                                                     | 1,82                                                     | MHE 2160            | 19,4                  | 180L4          |





## MHE Performans Tabloları / Performance Tables

| P <sub>1</sub><br>Giriş Gücü<br>Input Power<br>[kW] | n <sub>2</sub><br>Çıkış Devri<br>Output Speed<br>[rpm] | M <sub>2</sub><br>Çıkış Momenti<br>Output Torque<br>[Nm] | f <sub>s</sub><br>Servis<br>Faktörü<br>Service<br>Factor | Redüktör<br>Gearbox | i<br>Tahvil Oranı<br>Ratio | Motor<br>Motor |
|-----------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|---------------------|----------------------------|----------------|
| 22                                                  | 82,5                                                   | 2444                                                     | 2,08                                                     | MHE 2160            | 17,0                       | 180L4          |
|                                                     | 86,2                                                   | 2341                                                     | 1,03                                                     | MHE 2125            | 16,2                       | 180L4          |
|                                                     | 87,8                                                   | 2297                                                     | 1,48                                                     | MHE 2140            | 15,9                       | 180L4          |
|                                                     | 88,4                                                   | 2282                                                     | 2,47                                                     | MHE 2160            | 10,2                       | 200LB6         |
|                                                     | 91,2                                                   | 2213                                                     | 3,31                                                     | MHE 2180            | 9,87                       | 200LB6         |
|                                                     | 106                                                    | 1895                                                     | 2,90                                                     | MHE 2160            | 13,2                       | 180L4          |
|                                                     | 109                                                    | 1854                                                     | 2,93                                                     | MHE 2160            | 8,27                       | 200LB6         |
|                                                     | 111                                                    | 1810                                                     | 1,44                                                     | MHE 2125            | 12,6                       | 180L4          |
|                                                     | 116                                                    | 1734                                                     | 1,91                                                     | MHE 2140            | 12,0                       | 180L4          |
|                                                     | 138                                                    | 1461                                                     | 1,79                                                     | MHE 2125            | 10,1                       | 180L4          |
|                                                     | 144                                                    | 1398                                                     | 2,49                                                     | MHE 2140            | 9,70                       | 180L4          |
|                                                     | 180                                                    | 1123                                                     | 2,16                                                     | MHE 2125            | 7,79                       | 180L4          |
|                                                     | 218                                                    | 925                                                      | 2,43                                                     | MHE 2125            | 6,42                       | 180L4          |
|                                                     | 7,30                                                   | 36942                                                    | 1,17                                                     | MHE 3320            | 123                        | 225M6          |
| 30                                                  | 7,40                                                   | 36445                                                    | 1,72                                                     | MHE 3360            | 122                        | 225M6          |
|                                                     | 8,62                                                   | 31277                                                    | 2,33                                                     | MHE 3360            | 104                        | 225M6          |
|                                                     | 8,85                                                   | 30453                                                    | 1,63                                                     | MHE 3320            | 102                        | 225M6          |
|                                                     | 8,99                                                   | 29991                                                    | 1,19                                                     | MHE 3280            | 100                        | 225M6          |
|                                                     | 9,00                                                   | 29961                                                    | 0,89                                                     | MHE 3250            | 100                        | 225 M6         |
|                                                     | 10,7                                                   | 25155                                                    | 1,03                                                     | MHE 3250            | 84,0                       | 225 M6         |
|                                                     | 10,7                                                   | 25167                                                    | 1,43                                                     | MHE 3280            | 84,0                       | 225M6          |
|                                                     | 10,8                                                   | 25027                                                    | 2,94                                                     | MHE 3360            | 83,5                       | 225M6          |
|                                                     | 11,1                                                   | 24368                                                    | 2,07                                                     | MHE 3320            | 81,3                       | 225M6          |
|                                                     | 11,2                                                   | 24018                                                    | 1,21                                                     | MHE 3280            | 125                        | 200L4          |
|                                                     | 11,4                                                   | 23749                                                    | 1,75                                                     | MHE 3320            | 123                        | 200L4          |
|                                                     | 11,5                                                   | 23429                                                    | 2,57                                                     | MHE 3360            | 122                        | 200L4          |
|                                                     | 13,1                                                   | 20511                                                    | 1,22                                                     | MHE 3250            | 68,5                       | 225 M6         |
|                                                     | 13,1                                                   | 20523                                                    | 1,70                                                     | MHE 3280            | 68,5                       | 225M6          |
|                                                     | 13,3                                                   | 20251                                                    | 2,49                                                     | MHE 3320            | 67,6                       | 225M6          |
|                                                     | 13,4                                                   | 20106                                                    | 3,48                                                     | MHE 3360            | 104                        | 200L4          |
|                                                     | 13,8                                                   | 19577                                                    | 2,43                                                     | MHE 3320            | 102                        | 200L4          |
|                                                     | 14,0                                                   | 19261                                                    | 1,33                                                     | MHE 3250            | 100                        | 200 L4         |
|                                                     | 14,0                                                   | 19280                                                    | 1,78                                                     | MHE 3280            | 100                        | 200L4          |
|                                                     | 16,3                                                   | 16524                                                    | 0,98                                                     | MHE 3225            | 85,8                       | 200L4          |
|                                                     | 16,7                                                   | 16171                                                    | 1,53                                                     | MHE 3250            | 84,0                       | 200 L4         |
|                                                     | 16,7                                                   | 16179                                                    | 2,13                                                     | MHE 3280            | 84,0                       | 200L4          |
|                                                     | 16,8                                                   | 16089                                                    | 2,28                                                     | MHE 3280            | 53,7                       | 225M6          |
|                                                     | 17,2                                                   | 15709                                                    | 1,76                                                     | MHE 3250            | 52,4                       | 225 M6         |
|                                                     | 17,2                                                   | 15665                                                    | 3,09                                                     | MHE 3320            | 81,3                       | 200L4          |
|                                                     | 17,4                                                   | 15463                                                    | 3,26                                                     | MHE 3320            | 51,6                       | 225M6          |
|                                                     | 17,5                                                   | 15451                                                    | 1,06                                                     | MHE 3225            | 51,6                       | 225M6          |
|                                                     | 20,0                                                   | 13467                                                    | 1,20                                                     | MHE 3225            | 69,9                       | 200L4          |
|                                                     | 20,4                                                   | 13186                                                    | 1,83                                                     | MHE 3250            | 68,5                       | 200 L4         |
|                                                     | 20,4                                                   | 13194                                                    | 2,54                                                     | MHE 3280            | 68,5                       | 200L4          |
|                                                     | 21,5                                                   | 12548                                                    | 0,99                                                     | MHE 3200            | 41,9                       | 225M6          |
|                                                     | 21,6                                                   | 12464                                                    | 2,74                                                     | MHE 3280            | 41,6                       | 225M6          |
|                                                     | 22,2                                                   | 12161                                                    | 2,21                                                     | MHE 3250            | 40,6                       | 225 M6         |

| P <sub>1</sub><br>Giriş Gücü<br>Input Power<br>[kW] | n <sub>2</sub><br>Çıkış Devri<br>Output Speed<br>[rpm] | M <sub>2</sub><br>Çıkış Momenti<br>Output Torque<br>[Nm] | f <sub>s</sub><br>Servis<br>Faktörü<br>Service<br>Factor | Redüktör<br>Gearbox | i<br>Tahvil Oranı<br>Ratio | Motor<br>Motor |
|-----------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|---------------------|----------------------------|----------------|
| 30                                                  | 22,5                                                   | 11982                                                    | 1,46                                                     | MHE 3225            | 40,0                       | 225M6          |
|                                                     | 25,9                                                   | 10403                                                    | 1,08                                                     | MHE 3200            | 54,0                       | 200L4          |
|                                                     | 26,1                                                   | 10343                                                    | 3,41                                                     | MHE 3280            | 53,7                       | 200L4          |
|                                                     | 26,7                                                   | 10098                                                    | 2,63                                                     | MHE 3250            | 52,4                       | 200 L4         |
|                                                     | 27,1                                                   | 9933                                                     | 1,59                                                     | MHE 3225            | 51,6                       | 200L4          |
|                                                     | 28,0                                                   | 9645                                                     | 1,29                                                     | MHE 3200            | 32,2                       | 225M6          |
|                                                     | 29,3                                                   | 9210                                                     | 1,90                                                     | MHE 3225            | 30,7                       | 225M6          |
|                                                     | 29,4                                                   | 9177                                                     | 2,94                                                     | MHE 3250            | 30,6                       | 225 M6         |
|                                                     | 33,4                                                   | 8066                                                     | 1,49                                                     | MHE 3200            | 41,9                       | 200L4          |
|                                                     | 34,4                                                   | 7832                                                     | 1,53                                                     | MHE 3200            | 26,1                       | 225M6          |
|                                                     | 34,5                                                   | 7818                                                     | 3,30                                                     | MHE 3250            | 40,6                       | 200 L4         |
|                                                     | 35,0                                                   | 7702                                                     | 2,19                                                     | MHE 3225            | 40,0                       | 200L4          |
|                                                     | 36,0                                                   | 7490                                                     | 2,07                                                     | MHE 3225            | 25,0                       | 225M6          |
|                                                     | 36,0                                                   | 7640                                                     | 2,56                                                     | MHE 2250            | 25,0                       | 225 M6         |
|                                                     | 37,9                                                   | 7261                                                     | 1,97                                                     | MHE 2225            | 23,8                       | 225M6          |
|                                                     | 38,5                                                   | 7148                                                     | 1,05                                                     | MHE 2180            | 23,4                       | 225M6          |
|                                                     | 38,5                                                   | 7148                                                     | 1,42                                                     | MHE 2200            | 23,4                       | 225M6          |
|                                                     | 38,6                                                   | 6981                                                     | 1,08                                                     | MHE 3180            | 23,3                       | 225M6          |
|                                                     | 39,4                                                   | 6845                                                     | 1,07                                                     | MHE 3180            | 35,5                       | 200L4          |
|                                                     | 43,5                                                   | 6200                                                     | 1,94                                                     | MHE 3200            | 32,2                       | 200L4          |
|                                                     | 44,8                                                   | 6021                                                     | 0,92                                                     | MHE 3160            | 31,3                       | 200L4          |
|                                                     | 45,5                                                   | 5921                                                     | 2,85                                                     | MHE 3225            | 30,7                       | 200L4          |
|                                                     | 45,7                                                   | 6017                                                     | 2,59                                                     | MHE 2225            | 19,7                       | 225M6          |
|                                                     | 45,7                                                   | 5900                                                     | 4,40                                                     | MHE 3250            | 30,6                       | 200 L4         |
|                                                     | 45,8                                                   | 6001                                                     | 1,82                                                     | MHE 2200            | 19,6                       | 225M6          |
|                                                     | 46,2                                                   | 5840                                                     | 1,26                                                     | MHE 3180            | 30,3                       | 200L4          |
|                                                     | 46,3                                                   | 5940                                                     | 1,27                                                     | MHE 2180            | 19,4                       | 225M6          |
|                                                     | 46,4                                                   | 5931                                                     | 0,89                                                     | MHE 2160            | 19,4                       | 225M6          |
|                                                     | 53,0                                                   | 5194                                                     | 1,45                                                     | MHE 2180            | 17,0                       | 225M6          |
|                                                     | 53,1                                                   | 5185                                                     | 1,02                                                     | MHE 2160            | 17,0                       | 225M6          |
|                                                     | 53,3                                                   | 5161                                                     | 2,24                                                     | MHE 2200            | 16,9                       | 225M6          |
|                                                     | 53,6                                                   | 5035                                                     | 2,28                                                     | MHE 3200            | 26,1                       | 200L4          |
|                                                     | 56,0                                                   | 4815                                                     | 3,10                                                     | MHE 3225            | 25,0                       | 200L4          |
|                                                     | 56,0                                                   | 4912                                                     | 3,82                                                     | MHE 2250            | 25,0                       | 200 L4         |
|                                                     | 58,3                                                   | 4628                                                     | 1,15                                                     | MHE 3160            | 24,0                       | 200L4          |
|                                                     | 58,9                                                   | 4668                                                     | 1,01                                                     | MHE 2160            | 23,8                       | 200L4          |
|                                                     | 58,9                                                   | 4668                                                     | 2,94                                                     | MHE 2225            | 23,8                       | 200L4          |
|                                                     | 59,9                                                   | 4595                                                     | 1,57                                                     | MHE 2180            | 23,4                       | 200L4          |
|                                                     | 59,9                                                   | 4595                                                     | 2,12                                                     | MHE 2200            | 23,4                       | 200L4          |
|                                                     | 60,1                                                   | 4488                                                     | 1,62                                                     | MHE 3180            | 23,3                       | 200L4          |
|                                                     | 68,4                                                   | 4020                                                     | 1,42                                                     | MHE 2160            | 13,2                       | 225M6          |
|                                                     | 68,9                                                   | 3996                                                     | 2,99                                                     | MHE 2200            | 13,1                       | 225M6          |
|                                                     | 70,5                                                   | 3901                                                     | 1,90                                                     | MHE 2180            | 12,8                       | 225M6          |
|                                                     | 71,3                                                   | 3858                                                     | 2,72                                                     | MHE 2200            | 19,6                       | 200L4          |
|                                                     | 72,1                                                   | 3819                                                     | 1,90                                                     | MHE 2180            | 19,4                       | 200L4          |
|                                                     | 72,2                                                   | 3813                                                     | 1,33                                                     | MHE 2160            | 19,4                       | 200L4          |
|                                                     | 82,4                                                   | 3339                                                     | 2,17                                                     | MHE 2180            | 17,0                       | 200L4          |



## MHE Performans Tabloları / Performance Tables

| P <sub>1</sub><br>Giriş Gücü<br>Input Power<br>[kW] | n <sub>2</sub><br>Çıkış Devri<br>Output Speed<br>[rpm] | M <sub>2</sub><br>Çıkış Momenti<br>Output Torque<br>[Nm] | f <sub>s</sub><br>Servis<br>Faktörü<br>Service<br>Factor | Redüktör<br>Gearbox | Tahvil Oranı<br>Ratio | Motor<br>Motor |
|-----------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|---------------------|-----------------------|----------------|
| 30                                                  | 82,5                                                   | 3333                                                     | 1,53                                                     | MHE 2160            | 17,0                  | 200L4          |
|                                                     | 88,4                                                   | 3112                                                     | 1,81                                                     | MHE 2160            | 10,2                  | 225M6          |
|                                                     | 91,2                                                   | 3018                                                     | 2,43                                                     | MHE 2180            | 9,87                  | 225M6          |
|                                                     | 106                                                    | 2584                                                     | 2,13                                                     | MHE 2160            | 13,2                  | 200L4          |
|                                                     | 109                                                    | 2528                                                     | 2,15                                                     | MHE 2160            | 8,27                  | 225M6          |
|                                                     | 110                                                    | 2508                                                     | 2,84                                                     | MHE 2180            | 12,8                  | 200L4          |
|                                                     | 138                                                    | 2001                                                     | 2,71                                                     | MHE 2160            | 10,2                  | 200L4          |
|                                                     | 142                                                    | 1941                                                     | 2,57                                                     | MHE 2160            | 6,35                  | 225M6          |
|                                                     | 142                                                    | 1940                                                     | 3,63                                                     | MHE 2180            | 9,87                  | 200L4          |
|                                                     | 169                                                    | 1625                                                     | 3,21                                                     | MHE 2160            | 8,27                  | 200L4          |
|                                                     | 7,40                                                   | 44949                                                    | 1,39                                                     | MHE 3360            | 122                   | 250M6          |
|                                                     | 8,62                                                   | 38574                                                    | 1,89                                                     | MHE 3360            | 104                   | 250M6          |
| 37                                                  | 8,85                                                   | 37558                                                    | 1,32                                                     | MHE 3320            | 102                   | 250M6          |
|                                                     | 10,7                                                   | 31040                                                    | 1,16                                                     | MHE 3280            | 84,0                  | 250M6          |
|                                                     | 10,8                                                   | 30866                                                    | 2,39                                                     | MHE 3360            | 83,5                  | 250M6          |
|                                                     | 11,1                                                   | 30053                                                    | 1,67                                                     | MHE 3320            | 81,3                  | 250M6          |
|                                                     | 11,4                                                   | 29290                                                    | 1,42                                                     | MHE 3320            | 123                   | 225S4          |
|                                                     | 11,5                                                   | 28896                                                    | 2,09                                                     | MHE 3360            | 122                   | 225S4          |
|                                                     | 13,0                                                   | 25649                                                    | 2,88                                                     | MHE 3360            | 69,4                  | 250M6          |
|                                                     | 13,1                                                   | 25298                                                    | 0,99                                                     | MHE 3250            | 68,5                  | 250 M6         |
|                                                     | 13,1                                                   | 25312                                                    | 1,38                                                     | MHE 3280            | 68,5                  | 250M6          |
|                                                     | 13,3                                                   | 24976                                                    | 2,02                                                     | MHE 3320            | 67,6                  | 250M6          |
|                                                     | 13,4                                                   | 24798                                                    | 2,82                                                     | MHE 3360            | 104                   | 225S4          |
|                                                     | 13,8                                                   | 24145                                                    | 1,97                                                     | MHE 3320            | 102                   | 225S4          |
|                                                     | 14,0                                                   | 23755                                                    | 1,08                                                     | MHE 3250            | 100                   | 225 S4         |
|                                                     | 14,0                                                   | 23779                                                    | 1,44                                                     | MHE 3280            | 100                   | 225S4          |
|                                                     | 16,7                                                   | 19945                                                    | 1,24                                                     | MHE 3250            | 84,0                  | 225 S4         |
|                                                     | 16,7                                                   | 19954                                                    | 1,73                                                     | MHE 3280            | 84,0                  | 225S4          |
|                                                     | 16,8                                                   | 19843                                                    | 1,85                                                     | MHE 3280            | 53,7                  | 250M6          |
|                                                     | 17,2                                                   | 19374                                                    | 1,43                                                     | MHE 3250            | 52,4                  | 250 M6         |
|                                                     | 17,2                                                   | 19320                                                    | 2,51                                                     | MHE 3320            | 81,3                  | 225S4          |
|                                                     | 17,4                                                   | 19071                                                    | 2,64                                                     | MHE 3320            | 51,6                  | 250M6          |
|                                                     | 20,0                                                   | 16610                                                    | 0,97                                                     | MHE 3225            | 69,9                  | 225S4          |
|                                                     | 20,4                                                   | 16263                                                    | 1,49                                                     | MHE 3250            | 68,5                  | 225 S4         |
|                                                     | 20,4                                                   | 16272                                                    | 2,06                                                     | MHE 3280            | 68,5                  | 225S4          |
|                                                     | 20,7                                                   | 16056                                                    | 3,01                                                     | MHE 3320            | 67,6                  | 225S4          |
|                                                     | 21,6                                                   | 15372                                                    | 2,22                                                     | MHE 3280            | 41,6                  | 250M6          |
|                                                     | 22,2                                                   | 14999                                                    | 1,79                                                     | MHE 3250            | 40,6                  | 250 M6         |
|                                                     | 22,5                                                   | 14777                                                    | 1,19                                                     | MHE 3225            | 40,0                  | 250M6          |
|                                                     | 22,8                                                   | 14604                                                    | 3,45                                                     | MHE 3320            | 39,5                  | 250M6          |
|                                                     | 26,1                                                   | 12756                                                    | 2,76                                                     | MHE 3280            | 53,7                  | 225S4          |
|                                                     | 26,7                                                   | 12455                                                    | 2,13                                                     | MHE 3250            | 52,4                  | 225 S4         |
|                                                     | 27,1                                                   | 12250                                                    | 1,29                                                     | MHE 3225            | 51,6                  | 225S4          |
|                                                     | 28,0                                                   | 11895                                                    | 1,05                                                     | MHE 3200            | 32,2                  | 250M6          |
|                                                     | 28,7                                                   | 11603                                                    | 2,92                                                     | MHE 3280            | 31,4                  | 250M6          |
|                                                     | 29,3                                                   | 11359                                                    | 1,54                                                     | MHE 3225            | 30,7                  | 250M6          |
|                                                     | 29,4                                                   | 11318                                                    | 2,39                                                     | MHE 3250            | 30,6                  | 250 M6         |

| P <sub>1</sub><br>Giriş Gücü<br>Input Power<br>[kW] | n <sub>2</sub><br>Çıkış Devri<br>Output Speed<br>[rpm] | M <sub>2</sub><br>Çıkış Momenti<br>Output Torque<br>[Nm] | f <sub>s</sub><br>Servis<br>Faktörü<br>Service<br>Factor | Redüktör<br>Gearbox | Tahvil Oranı<br>Ratio | Motor<br>Motor |
|-----------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|---------------------|-----------------------|----------------|
| 37                                                  | 33,4                                                   | 9949                                                     | 1,21                                                     | MHE 3200            | 41,9                  | 225S4          |
|                                                     | 33,7                                                   | 9882                                                     | 3,32                                                     | MHE 3280            | 41,6                  | 225S4          |
|                                                     | 34,4                                                   | 9659                                                     | 1,24                                                     | MHE 3200            | 26,1                  | 250M6          |
|                                                     | 34,5                                                   | 9642                                                     | 2,67                                                     | MHE 3250            | 40,6                  | 225 S4         |
|                                                     | 35,0                                                   | 9500                                                     | 1,78                                                     | MHE 3225            | 40,0                  | 225S4          |
|                                                     | 36,0                                                   | 9238                                                     | 1,68                                                     | MHE 3225            | 25,0                  | 250M6          |
|                                                     | 36,0                                                   | 9423                                                     | 2,07                                                     | MHE 2250            | 25,0                  | 250 M6         |
|                                                     | 36,1                                                   | 9389                                                     | 3,11                                                     | MHE 2280            | 24,9                  | 250M6          |
|                                                     | 37,9                                                   | 8955                                                     | 1,60                                                     | MHE 2225            | 23,8                  | 250M6          |
|                                                     | 38,5                                                   | 8816                                                     | 1,15                                                     | MHE 2200            | 23,4                  | 250M6          |
|                                                     | 43,5                                                   | 7647                                                     | 1,57                                                     | MHE 3200            | 32,2                  | 225S4          |
|                                                     | 45,0                                                   | 7541                                                     | 3,44                                                     | MHE 2250            | 20,0                  | 250 M6         |
|                                                     | 45,5                                                   | 7302                                                     | 2,31                                                     | MHE 3225            | 30,7                  | 225S4          |
|                                                     | 45,7                                                   | 7421                                                     | 2,10                                                     | MHE 2225            | 19,7                  | 250M6          |
|                                                     | 45,7                                                   | 7276                                                     | 3,57                                                     | MHE 3250            | 30,6                  | 225 S4         |
|                                                     | 45,8                                                   | 7402                                                     | 1,48                                                     | MHE 2200            | 19,6                  | 250M6          |
|                                                     | 46,2                                                   | 7203                                                     | 1,02                                                     | MHE 3180            | 30,3                  | 225S4          |
|                                                     | 46,3                                                   | 7326                                                     | 1,03                                                     | MHE 2180            | 19,4                  | 250M6          |
|                                                     | 53,0                                                   | 6406                                                     | 1,18                                                     | MHE 2180            | 17,0                  | 250M6          |
|                                                     | 53,2                                                   | 6380                                                     | 2,46                                                     | MHE 2225            | 16,9                  | 250M6          |
|                                                     | 53,3                                                   | 6365                                                     | 1,81                                                     | MHE 2200            | 16,9                  | 250M6          |
|                                                     | 53,6                                                   | 6210                                                     | 1,85                                                     | MHE 3200            | 26,1                  | 225S4          |
|                                                     | 56,0                                                   | 5939                                                     | 2,51                                                     | MHE 3225            | 25,0                  | 225S4          |
|                                                     | 56,0                                                   | 6058                                                     | 3,10                                                     | MHE 2250            | 25,0                  | 225 S4         |
|                                                     | 58,3                                                   | 5708                                                     | 0,93                                                     | MHE 3160            | 24,0                  | 225S4          |
|                                                     | 58,9                                                   | 5757                                                     | 2,39                                                     | MHE 2225            | 23,8                  | 225S4          |
|                                                     | 59,9                                                   | 5667                                                     | 1,27                                                     | MHE 2180            | 23,4                  | 225S4          |
|                                                     | 59,9                                                   | 5667                                                     | 1,72                                                     | MHE 2200            | 23,4                  | 225S4          |
|                                                     | 60,1                                                   | 5535                                                     | 1,32                                                     | MHE 3180            | 23,3                  | 225S4          |
|                                                     | 68,9                                                   | 4928                                                     | 2,43                                                     | MHE 2200            | 13,1                  | 250M6          |
|                                                     | 70,5                                                   | 4811                                                     | 1,54                                                     | MHE 2180            | 12,8                  | 250M6          |
|                                                     | 71,1                                                   | 4770                                                     | 3,14                                                     | MHE 2225            | 19,7                  | 225S4          |
|                                                     | 71,3                                                   | 4758                                                     | 2,21                                                     | MHE 2200            | 19,6                  | 225S4          |
|                                                     | 72,1                                                   | 4710                                                     | 1,54                                                     | MHE 2180            | 19,4                  | 225S4          |
|                                                     | 72,2                                                   | 4703                                                     | 1,08                                                     | MHE 2160            | 19,4                  | 225S4          |
|                                                     | 82,4                                                   | 4118                                                     | 1,76                                                     | MHE 2180            | 17,0                  | 225S4          |
|                                                     | 82,5                                                   | 4111                                                     | 1,24                                                     | MHE 2160            | 17,0                  | 225S4          |
|                                                     | 82,9                                                   | 4092                                                     | 2,71                                                     | MHE 2200            | 16,9                  | 225S4          |
|                                                     | 88,8                                                   | 3820                                                     | 3,13                                                     | MHE 2200            | 10,1                  | 250M6          |
|                                                     | 91,2                                                   | 3722                                                     | 1,97                                                     | MHE 2180            | 9,87                  | 250M6          |
|                                                     | 106                                                    | 3188                                                     | 1,73                                                     | MHE 2160            | 13,2                  | 225S4          |
|                                                     | 110                                                    | 3093                                                     | 2,30                                                     | MHE 2180            | 12,8                  | 225S4          |
|                                                     | 138                                                    | 2468                                                     | 2,20                                                     | MHE 2160            | 10,2                  | 225S4          |
|                                                     | 142                                                    | 2392                                                     | 2,94                                                     | MHE 2180            | 9,87                  | 225S4          |
|                                                     | 169                                                    | 2005                                                     | 2,60                                                     | MHE 2160            | 8,27                  | 225S4          |
|                                                     | 220                                                    | 1539                                                     | 3,11                                                     | MHE 2160            | 6,35                  | 225S4          |
| 45                                                  | 7,40                                                   | 54667                                                    | 1,15                                                     | MHE 3360            | 122                   | 280S6          |



## MHE Performans Tabloları / Performance Tables

| P <sub>1</sub><br>Giriş Gücü<br>Input Power<br>[kW] | n <sub>2</sub><br>Çıkış Devri<br>Output Speed<br>[rpm] | M <sub>2</sub><br>Çıkış Momenti<br>Output Torque<br>[Nm] | f <sub>s</sub><br>Servis<br>Faktörü<br>Service<br>Factor | Redüktör<br>Gearbox | i<br>Tahvil Oranı<br>Ratio | Motor<br>Motor |
|-----------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|---------------------|----------------------------|----------------|
| 45                                                  | 8,62                                                   | 46915                                                    | 1,55                                                     | MHE 3360            | 104                        | 280S6          |
|                                                     | 10,8                                                   | 37540                                                    | 1,96                                                     | MHE 3360            | 83,5                       | 280S6          |
|                                                     | 11,1                                                   | 36551                                                    | 1,38                                                     | MHE 3320            | 81,3                       | 280S6          |
|                                                     | 11,4                                                   | 35623                                                    | 1,16                                                     | MHE 3320            | 123                        | 225M4          |
|                                                     | 11,5                                                   | 35143                                                    | 1,71                                                     | MHE 3360            | 122                        | 225M4          |
|                                                     | 13,0                                                   | 31194                                                    | 2,37                                                     | MHE 3360            | 69,4                       | 280S6          |
|                                                     | 13,1                                                   | 30785                                                    | 1,13                                                     | MHE 3280            | 68,5                       | 280S6          |
|                                                     | 13,3                                                   | 30376                                                    | 1,66                                                     | MHE 3320            | 67,6                       | 280S6          |
|                                                     | 13,4                                                   | 30160                                                    | 2,32                                                     | MHE 3360            | 104                        | 225M4          |
|                                                     | 13,8                                                   | 29365                                                    | 1,62                                                     | MHE 3320            | 102                        | 225M4          |
|                                                     | 14,0                                                   | 28920                                                    | 1,18                                                     | MHE 3280            | 100                        | 225M4          |
|                                                     | 16,7                                                   | 24257                                                    | 1,02                                                     | MHE 3250            | 84,0                       | 225 M4         |
|                                                     | 16,7                                                   | 24269                                                    | 1,42                                                     | MHE 3280            | 84,0                       | 225M4          |
|                                                     | 16,8                                                   | 24134                                                    | 1,52                                                     | MHE 3280            | 53,7                       | 280S6          |
|                                                     | 16,8                                                   | 24133                                                    | 2,94                                                     | MHE 3360            | 83,5                       | 225M4          |
|                                                     | 17,2                                                   | 23563                                                    | 1,17                                                     | MHE 3250            | 52,4                       | 280 S6         |
|                                                     | 17,2                                                   | 23497                                                    | 2,06                                                     | MHE 3320            | 81,3                       | 225M4          |
|                                                     | 17,4                                                   | 23284                                                    | 3,16                                                     | MHE 3360            | 51,8                       | 280S6          |
|                                                     | 17,4                                                   | 23195                                                    | 2,17                                                     | MHE 3320            | 51,6                       | 280S6          |
|                                                     | 20,4                                                   | 19779                                                    | 1,22                                                     | MHE 3250            | 68,5                       | 225 M4         |
|                                                     | 20,4                                                   | 19790                                                    | 1,69                                                     | MHE 3280            | 68,5                       | 225M4          |
|                                                     | 20,7                                                   | 19528                                                    | 2,48                                                     | MHE 3320            | 67,6                       | 225M4          |
|                                                     | 21,6                                                   | 18696                                                    | 1,83                                                     | MHE 3280            | 41,6                       | 280S6          |
|                                                     | 22,2                                                   | 18242                                                    | 1,47                                                     | MHE 3250            | 40,6                       | 280 S6         |
|                                                     | 22,8                                                   | 17761                                                    | 2,83                                                     | MHE 3320            | 39,5                       | 280S6          |
|                                                     | 26,1                                                   | 15515                                                    | 2,27                                                     | MHE 3280            | 53,7                       | 225M4          |
|                                                     | 26,7                                                   | 15148                                                    | 1,75                                                     | MHE 3250            | 52,4                       | 225 M4         |
|                                                     | 27,1                                                   | 14911                                                    | 3,25                                                     | MHE 3320            | 51,6                       | 225M4          |
|                                                     | 27,1                                                   | 14899                                                    | 1,06                                                     | MHE 3225            | 51,6                       | 225M4          |
|                                                     | 28,7                                                   | 14112                                                    | 2,40                                                     | MHE 3280            | 31,4                       | 280S6          |
|                                                     | 29,3                                                   | 13815                                                    | 1,27                                                     | MHE 3225            | 30,7                       | 280S6          |
|                                                     | 29,4                                                   | 13766                                                    | 1,96                                                     | MHE 3250            | 30,6                       | 280 S6         |
|                                                     | 33,4                                                   | 12100                                                    | 0,99                                                     | MHE 3200            | 41,9                       | 225M4          |
|                                                     | 33,7                                                   | 12019                                                    | 2,73                                                     | MHE 3280            | 41,6                       | 225M4          |
|                                                     | 34,4                                                   | 11748                                                    | 1,02                                                     | MHE 3200            | 26,1                       | 280S6          |
|                                                     | 34,5                                                   | 11727                                                    | 2,20                                                     | MHE 3250            | 40,6                       | 225 M4         |
|                                                     | 35,0                                                   | 11554                                                    | 1,46                                                     | MHE 3225            | 40,0                       | 225M4          |
|                                                     | 36,0                                                   | 11235                                                    | 1,38                                                     | MHE 3225            | 25,0                       | 280S6          |
|                                                     | 36,0                                                   | 11460                                                    | 1,70                                                     | MHE 2250            | 25,0                       | 280 S6         |
|                                                     | 36,1                                                   | 11419                                                    | 2,56                                                     | MHE 2280            | 24,9                       | 280S6          |
|                                                     | 37,9                                                   | 10892                                                    | 1,31                                                     | MHE 2225            | 23,8                       | 280S6          |
|                                                     | 43,5                                                   | 9300                                                     | 1,29                                                     | MHE 3200            | 32,2                       | 225M4          |
|                                                     | 44,6                                                   | 9072                                                     | 3,59                                                     | MHE 3280            | 31,4                       | 225M4          |
|                                                     | 45,0                                                   | 9172                                                     | 2,83                                                     | MHE 2250            | 20,0                       | 280 S6         |
|                                                     | 45,5                                                   | 8881                                                     | 1,90                                                     | MHE 3225            | 30,7                       | 225M4          |
|                                                     | 45,7                                                   | 9025                                                     | 1,73                                                     | MHE 2225            | 19,7                       | 280S6          |
|                                                     | 45,7                                                   | 8849                                                     | 2,93                                                     | MHE 3250            | 30,6                       | 225 M4         |

| P <sub>1</sub><br>Giriş Gücü<br>Input Power<br>[kW] | n <sub>2</sub><br>Çıkış Devri<br>Output Speed<br>[rpm] | M <sub>2</sub><br>Çıkış Momenti<br>Output Torque<br>[Nm] | f <sub>s</sub><br>Servis<br>Faktörü<br>Service<br>Factor | Redüktör<br>Gearbox | i<br>Tahvil Oranı<br>Ratio | Motor<br>Motor |
|-----------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|---------------------|----------------------------|----------------|
| 45                                                  | 45,8                                                   | 9002                                                     | 1,21                                                     | MHE 2200            | 19,6                       | 280S6          |
|                                                     | 53,2                                                   | 7759                                                     | 2,03                                                     | MHE 2225            | 16,9                       | 280S6          |
|                                                     | 53,3                                                   | 7741                                                     | 1,49                                                     | MHE 2200            | 16,9                       | 280S6          |
|                                                     | 53,6                                                   | 7552                                                     | 1,52                                                     | MHE 3200            | 26,1                       | 225M4          |
|                                                     | 53,6                                                   | 7700                                                     | 3,38                                                     | MHE 2250            | 16,8                       | 280 S6         |
|                                                     | 56,0                                                   | 7223                                                     | 2,06                                                     | MHE 3225            | 25,0                       | 225M4          |
|                                                     | 56,0                                                   | 7367                                                     | 2,55                                                     | MHE 2250            | 25,0                       | 225 M4         |
|                                                     | 58,9                                                   | 7002                                                     | 1,96                                                     | MHE 2225            | 23,8                       | 225M4          |
|                                                     | 59,9                                                   | 6893                                                     | 1,04                                                     | MHE 2180            | 23,4                       | 225M4          |
|                                                     | 59,9                                                   | 6893                                                     | 1,41                                                     | MHE 2200            | 23,4                       | 225M4          |
|                                                     | 60,1                                                   | 6732                                                     | 1,08                                                     | MHE 3180            | 23,3                       | 225M4          |
|                                                     | 68,9                                                   | 5994                                                     | 2,00                                                     | MHE 2200            | 13,1                       | 280S6          |
|                                                     | 70,0                                                   | 5897                                                     | 4,53                                                     | MHE 2250            | 12,9                       | 280 S6         |
|                                                     | 71,1                                                   | 5802                                                     | 2,58                                                     | MHE 2225            | 19,7                       | 225M4          |
|                                                     | 71,3                                                   | 5787                                                     | 1,81                                                     | MHE 2200            | 19,6                       | 225M4          |
|                                                     | 72,1                                                   | 5728                                                     | 1,27                                                     | MHE 2180            | 19,4                       | 225M4          |
|                                                     | 72,1                                                   | 5723                                                     | 2,91                                                     | MHE 2225            | 12,5                       | 280S6          |
|                                                     | 82,4                                                   | 5009                                                     | 1,45                                                     | MHE 2180            | 17,0                       | 225M4          |
|                                                     | 82,5                                                   | 5000                                                     | 1,02                                                     | MHE 2160            | 17,0                       | 225M4          |
|                                                     | 82,9                                                   | 4976                                                     | 2,23                                                     | MHE 2200            | 16,9                       | 225M4          |
|                                                     | 88,8                                                   | 4646                                                     | 2,57                                                     | MHE 2200            | 10,1                       | 280S6          |
|                                                     | 106                                                    | 3877                                                     | 1,42                                                     | MHE 2160            | 13,2                       | 225M4          |
|                                                     | 107                                                    | 3853                                                     | 2,98                                                     | MHE 2200            | 13,1                       | 225M4          |
|                                                     | 110                                                    | 3762                                                     | 1,89                                                     | MHE 2180            | 12,8                       | 225M4          |
|                                                     | 114                                                    | 3632                                                     | 3,15                                                     | MHE 2200            | 7,92                       | 280S6          |
|                                                     | 138                                                    | 3001                                                     | 1,81                                                     | MHE 2160            | 10,2                       | 225M4          |
|                                                     | 142                                                    | 2910                                                     | 2,42                                                     | MHE 2180            | 9,87                       | 225M4          |
|                                                     | 169                                                    | 2438                                                     | 2,14                                                     | MHE 2160            | 8,27                       | 225M4          |
|                                                     | 220                                                    | 1872                                                     | 2,56                                                     | MHE 2160            | 6,35                       | 225M4          |
|                                                     | 8,62                                                   | 57340                                                    | 1,27                                                     | MHE 3360            | 104                        | 280M6          |
|                                                     | 10,8                                                   | 45882                                                    | 1,61                                                     | MHE 3360            | 83,5                       | 280M6          |
|                                                     | 11,1                                                   | 44674                                                    | 1,13                                                     | MHE 3320            | 81,3                       | 280M6          |
|                                                     | 11,5                                                   | 42953                                                    | 1,40                                                     | MHE 3360            | 122                        | 250M4          |
|                                                     | 13,0                                                   | 38126                                                    | 1,94                                                     | MHE 3360            | 69,4                       | 280M6          |
|                                                     | 13,3                                                   | 37127                                                    | 1,36                                                     | MHE 3320            | 67,6                       | 280M6          |
|                                                     | 13,4                                                   | 36862                                                    | 1,90                                                     | MHE 3360            | 104                        | 250M4          |
|                                                     | 13,8                                                   | 35891                                                    | 1,33                                                     | MHE 3320            | 102                        | 250M4          |
|                                                     | 16,7                                                   | 29662                                                    | 1,16                                                     | MHE 3280            | 84,0                       | 250M4          |
|                                                     | 16,8                                                   | 29497                                                    | 1,24                                                     | MHE 3280            | 53,7                       | 280M6          |
|                                                     | 16,8                                                   | 29496                                                    | 2,40                                                     | MHE 3360            | 83,5                       | 250M4          |
|                                                     | 17,2                                                   | 28799                                                    | 0,96                                                     | MHE 3250            | 52,4                       | 280 M6         |
|                                                     | 17,2                                                   | 28719                                                    | 1,69                                                     | MHE 3320            | 81,3                       | 250M4          |
|                                                     | 17,4                                                   | 28459                                                    | 2,58                                                     | MHE 3360            | 51,8                       | 280M6          |
|                                                     | 17,4                                                   | 28349                                                    | 1,78                                                     | MHE 3320            | 51,6                       | 280M6          |
|                                                     | 20,2                                                   | 24510                                                    | 2,90                                                     | MHE 3360            | 69,4                       | 250M4          |
|                                                     | 20,4                                                   | 24174                                                    | 1,00                                                     | MHE 3250            | 68,5                       | 250 M4         |
|                                                     | 20,4                                                   | 24188                                                    | 1,38                                                     | MHE 3280            | 68,5                       | 250M4          |



## MHE Performans Tabloları / Performance Tables

| P <sub>1</sub><br>Giriş Gücü<br>Input Power<br>[kW] | n <sub>2</sub><br>Çıkış Devri<br>Output Speed<br>[rpm] | M <sub>2</sub><br>Çıkış Momenti<br>Output Torque<br>[Nm] | f <sub>s</sub><br>Servis<br>Faktörü<br>Service<br>Factor | Redüktör<br>Gearbox | i<br>Tahvil Oranı<br>Ratio | Motor<br>Motor |
|-----------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|---------------------|----------------------------|----------------|
| 55                                                  | 20,7                                                   | 23867                                                    | 2,03                                                     | MHE 3320            | 67,6                       | 250M4          |
|                                                     | 21,6                                                   | 22850                                                    | 1,49                                                     | MHE 3280            | 41,6                       | 280M6          |
|                                                     | 22,2                                                   | 22296                                                    | 1,20                                                     | MHE 3250            | 40,6                       | 280 M6         |
|                                                     | 22,7                                                   | 21796                                                    | 3,31                                                     | MHE 3360            | 39,7                       | 280M6          |
|                                                     | 22,8                                                   | 21708                                                    | 2,32                                                     | MHE 3320            | 39,5                       | 280M6          |
|                                                     | 26,1                                                   | 18962                                                    | 1,86                                                     | MHE 3280            | 53,7                       | 250M4          |
|                                                     | 26,7                                                   | 18514                                                    | 1,43                                                     | MHE 3250            | 52,4                       | 250 M4         |
|                                                     | 27,1                                                   | 18224                                                    | 2,66                                                     | MHE 3320            | 51,6                       | 250M4          |
|                                                     | 28,7                                                   | 17248                                                    | 1,96                                                     | MHE 3280            | 31,4                       | 280M6          |
|                                                     | 29,3                                                   | 16885                                                    | 1,04                                                     | MHE 3225            | 30,7                       | 280M6          |
|                                                     | 29,4                                                   | 16825                                                    | 1,60                                                     | MHE 3250            | 30,6                       | 280 M6         |
|                                                     | 30,3                                                   | 16297                                                    | 3,02                                                     | MHE 3320            | 29,7                       | 280M6          |
|                                                     | 33,7                                                   | 14690                                                    | 2,23                                                     | MHE 3280            | 41,6                       | 250M4          |
|                                                     | 34,5                                                   | 14333                                                    | 1,80                                                     | MHE 3250            | 40,6                       | 250 M4         |
|                                                     | 35,0                                                   | 14121                                                    | 1,19                                                     | MHE 3225            | 40,0                       | 250M4          |
|                                                     | 35,4                                                   | 13955                                                    | 3,47                                                     | MHE 3320            | 39,5                       | 250M4          |
|                                                     | 35,9                                                   | 14041                                                    | 2,93                                                     | MHE 2320            | 25,1                       | 280M6          |
|                                                     | 36,0                                                   | 13732                                                    | 1,13                                                     | MHE 3225            | 25,0                       | 280M6          |
|                                                     | 36,0                                                   | 14007                                                    | 1,39                                                     | MHE 2250            | 25,0                       | 280 M6         |
|                                                     | 36,1                                                   | 13956                                                    | 2,10                                                     | MHE 2280            | 24,9                       | 280M6          |
|                                                     | 37,9                                                   | 13312                                                    | 1,07                                                     | MHE 2225            | 23,8                       | 280M6          |
|                                                     | 43,5                                                   | 11367                                                    | 1,06                                                     | MHE 3200            | 32,2                       | 250M4          |
|                                                     | 44,6                                                   | 11088                                                    | 2,94                                                     | MHE 3280            | 31,4                       | 250M4          |
|                                                     | 45,0                                                   | 11210                                                    | 2,32                                                     | MHE 2250            | 20,0                       | 280 M6         |
|                                                     | 45,0                                                   | 11210                                                    | 3,07                                                     | MHE 2280            | 20,0                       | 280M6          |
|                                                     | 45,5                                                   | 10855                                                    | 1,55                                                     | MHE 3225            | 30,7                       | 250M4          |
|                                                     | 45,7                                                   | 11031                                                    | 1,41                                                     | MHE 2225            | 19,7                       | 280M6          |
|                                                     | 45,7                                                   | 10816                                                    | 2,40                                                     | MHE 3250            | 30,6                       | 250 M4         |
|                                                     | 45,8                                                   | 11003                                                    | 0,99                                                     | MHE 2200            | 19,6                       | 280M6          |
|                                                     | 53,2                                                   | 9484                                                     | 1,66                                                     | MHE 2225            | 16,9                       | 280M6          |
|                                                     | 53,3                                                   | 9461                                                     | 1,22                                                     | MHE 2200            | 16,9                       | 280M6          |
|                                                     | 53,6                                                   | 9411                                                     | 2,76                                                     | MHE 2250            | 16,8                       | 280 M6         |
|                                                     | 53,6                                                   | 9230                                                     | 1,25                                                     | MHE 3200            | 26,1                       | 250M4          |
|                                                     | 56,0                                                   | 8828                                                     | 1,69                                                     | MHE 3225            | 25,0                       | 250M4          |
|                                                     | 56,0                                                   | 9004                                                     | 2,08                                                     | MHE 2250            | 25,0                       | 250 M4         |
|                                                     | 56,2                                                   | 8972                                                     | 3,13                                                     | MHE 2280            | 24,9                       | 250M4          |
|                                                     | 58,9                                                   | 8558                                                     | 1,61                                                     | MHE 2225            | 23,8                       | 250M4          |
|                                                     | 59,9                                                   | 8424                                                     | 1,16                                                     | MHE 2200            | 23,4                       | 250M4          |
|                                                     | 68,9                                                   | 7326                                                     | 1,63                                                     | MHE 2200            | 13,1                       | 280M6          |
|                                                     | 70,0                                                   | 7208                                                     | 3,71                                                     | MHE 2250            | 12,9                       | 280 M6         |
|                                                     | 70,0                                                   | 7206                                                     | 3,46                                                     | MHE 2250            | 20,0                       | 250 M4         |
|                                                     | 71,1                                                   | 7091                                                     | 2,11                                                     | MHE 2225            | 19,7                       | 250M4          |
|                                                     | 71,3                                                   | 7073                                                     | 1,48                                                     | MHE 2200            | 19,6                       | 250M4          |
|                                                     | 72,1                                                   | 7001                                                     | 1,04                                                     | MHE 2180            | 19,4                       | 250M4          |
|                                                     | 72,1                                                   | 6995                                                     | 2,38                                                     | MHE 2225            | 12,5                       | 280M6          |
|                                                     | 82,4                                                   | 6122                                                     | 1,18                                                     | MHE 2180            | 17,0                       | 250M4          |
|                                                     | 82,7                                                   | 6097                                                     | 2,48                                                     | MHE 2225            | 16,9                       | 250M4          |

| P <sub>1</sub><br>Giriş Gücü<br>Input Power<br>[kW] | n <sub>2</sub><br>Çıkış Devri<br>Output Speed<br>[rpm] | M <sub>2</sub><br>Çıkış Momenti<br>Output Torque<br>[Nm] | f <sub>s</sub><br>Servis<br>Faktörü<br>Service<br>Factor | Redüktör<br>Gearbox | i<br>Tahvil Oranı<br>Ratio | Motor<br>Motor |
|-----------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|---------------------|----------------------------|----------------|
| 55                                                  | 82,9                                                   | 6082                                                     | 1,82                                                     | MHE 2200            | 16,9                       | 250M4          |
|                                                     | 88,8                                                   | 5678                                                     | 2,11                                                     | MHE 2200            | 10,1                       | 280M6          |
|                                                     | 93,0                                                   | 5426                                                     | 3,11                                                     | MHE 2225            | 9,68                       | 280M6          |
|                                                     | 107                                                    | 4709                                                     | 2,44                                                     | MHE 2200            | 13,1                       | 250M4          |
|                                                     | 110                                                    | 4598                                                     | 1,55                                                     | MHE 2180            | 12,8                       | 250M4          |
|                                                     | 114                                                    | 4439                                                     | 2,58                                                     | MHE 2200            | 7,92                       | 280M6          |
|                                                     | 138                                                    | 3650                                                     | 3,15                                                     | MHE 2200            | 10,1                       | 250M4          |
|                                                     | 140                                                    | 3604                                                     | 2,89                                                     | MHE 2200            | 6,43                       | 280M6          |
|                                                     | 142                                                    | 3556                                                     | 1,98                                                     | MHE 2180            | 9,87                       | 250M4          |
|                                                     | 10,8                                                   | 62567                                                    | 1,18                                                     | MHE 3360            | 83,5                       | 315S6          |
|                                                     | 11,5                                                   | 58572                                                    | 1,03                                                     | MHE 3360            | 122                        | 280S4          |
|                                                     | 13,0                                                   | 51990                                                    | 1,42                                                     | MHE 3360            | 69,4                       | 315S6          |
|                                                     | 13,3                                                   | 50627                                                    | 0,99                                                     | MHE 3320            | 67,6                       | 315S6          |
|                                                     | 13,4                                                   | 50266                                                    | 1,39                                                     | MHE 3360            | 104                        | 280S4          |
|                                                     | 16,8                                                   | 40221                                                    | 1,76                                                     | MHE 3360            | 83,5                       | 280S4          |
| 75                                                  | 17,2                                                   | 39162                                                    | 1,24                                                     | MHE 3320            | 81,3                       | 280S4          |
|                                                     | 17,4                                                   | 38807                                                    | 1,90                                                     | MHE 3360            | 51,8                       | 315S6          |
|                                                     | 17,4                                                   | 38658                                                    | 1,30                                                     | MHE 3320            | 51,6                       | 315S6          |
|                                                     | 20,2                                                   | 33422                                                    | 2,12                                                     | MHE 3360            | 69,4                       | 280S4          |
|                                                     | 20,4                                                   | 32984                                                    | 1,02                                                     | MHE 3280            | 68,5                       | 280S4          |
|                                                     | 20,7                                                   | 32546                                                    | 1,49                                                     | MHE 3320            | 67,6                       | 280S4          |
|                                                     | 21,6                                                   | 31160                                                    | 1,10                                                     | MHE 3280            | 41,6                       | 315S6          |
|                                                     | 22,7                                                   | 29722                                                    | 2,43                                                     | MHE 3360            | 39,7                       | 315S6          |
|                                                     | 22,8                                                   | 29602                                                    | 1,70                                                     | MHE 3320            | 39,5                       | 315S6          |
|                                                     | 26,1                                                   | 25858                                                    | 1,36                                                     | MHE 3280            | 53,7                       | 280S4          |
|                                                     | 26,7                                                   | 25246                                                    | 1,05                                                     | MHE 3250            | 52,4                       | 280 S4         |
|                                                     | 27,0                                                   | 24948                                                    | 2,83                                                     | MHE 3360            | 51,8                       | 280S4          |
|                                                     | 27,1                                                   | 24851                                                    | 1,95                                                     | MHE 3320            | 51,6                       | 280S4          |
|                                                     | 28,7                                                   | 23520                                                    | 1,44                                                     | MHE 3280            | 31,4                       | 315S6          |
|                                                     | 29,4                                                   | 22943                                                    | 1,18                                                     | MHE 3250            | 30,6                       | 315 S6         |
|                                                     | 30,2                                                   | 22314                                                    | 3,18                                                     | MHE 3360            | 29,8                       | 315S6          |
|                                                     | 30,3                                                   | 22224                                                    | 2,22                                                     | MHE 3320            | 29,7                       | 315S6          |
|                                                     | 33,7                                                   | 20031                                                    | 1,64                                                     | MHE 3280            | 41,6                       | 280S4          |
|                                                     | 34,5                                                   | 19545                                                    | 1,32                                                     | MHE 3250            | 40,6                       | 280 S4         |
|                                                     | 35,4                                                   | 19030                                                    | 2,54                                                     | MHE 3320            | 39,5                       | 280S4          |
|                                                     | 35,9                                                   | 19146                                                    | 2,15                                                     | MHE 2320            | 25,1                       | 315S6          |
|                                                     | 36,0                                                   | 19100                                                    | 1,02                                                     | MHE 2250            | 25,0                       | 315 S6         |
|                                                     | 36,1                                                   | 19032                                                    | 1,54                                                     | MHE 2280            | 24,9                       | 315S6          |
|                                                     | 36,4                                                   | 18886                                                    | 3,27                                                     | MHE 2360            | 24,7                       | 315S6          |
|                                                     | 43,6                                                   | 15783                                                    | 2,87                                                     | MHE 2320            | 20,7                       | 315S6          |
|                                                     | 44,6                                                   | 15120                                                    | 2,15                                                     | MHE 3280            | 31,4                       | 280S4          |
|                                                     | 45,0                                                   | 15286                                                    | 1,70                                                     | MHE 2250            | 20,0                       | 315 S6         |
|                                                     | 45,0                                                   | 15286                                                    | 2,25                                                     | MHE 2280            | 20,0                       | 315S6          |
|                                                     | 45,5                                                   | 14802                                                    | 1,14                                                     | MHE 3225            | 30,7                       | 280S4          |
|                                                     | 45,7                                                   | 14749                                                    | 1,76                                                     | MHE 3250            | 30,6                       | 280 S4         |
|                                                     | 47,2                                                   | 14287                                                    | 3,32                                                     | MHE 3320            | 29,7                       | 280S4          |
|                                                     | 53,6                                                   | 12587                                                    | 0,91                                                     | MHE 3200            | 26,1                       | 280S4          |



## MHE Performans Tabloları / Performance Tables

| P <sub>1</sub><br>Giriş Gücü<br>Input Power<br>[kW] | n <sub>2</sub><br>Çıkış Devri<br>Output Speed<br>[rpm] | M <sub>2</sub><br>Çıkış Momenti<br>Output Torque<br>[Nm] | f <sub>s</sub><br>Servis<br>Faktörü<br>Service<br>Factor | Redüktör<br>Gearbox | i<br>Tahvil Oranı<br>Ratio | Motor<br>Motor |
|-----------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|---------------------|----------------------------|----------------|
| 75                                                  | 53,6                                                   | 12833                                                    | 2,03                                                     | MHE 2250            | 16,8                       | 315 S6         |
|                                                     | 53,6                                                   | 12841                                                    | 2,68                                                     | MHE 2280            | 16,8                       | 315S6          |
|                                                     | 55,9                                                   | 12308                                                    | 3,22                                                     | MHE 2320            | 25,1                       | 280S4          |
|                                                     | 56,0                                                   | 12038                                                    | 1,24                                                     | MHE 3225            | 25,0                       | 280S4          |
|                                                     | 56,0                                                   | 12279                                                    | 1,53                                                     | MHE 2250            | 25,0                       | 280 S4         |
|                                                     | 56,2                                                   | 12235                                                    | 2,30                                                     | MHE 2280            | 24,9                       | 280S4          |
|                                                     | 58,9                                                   | 11670                                                    | 1,18                                                     | MHE 2225            | 23,8                       | 280S4          |
|                                                     | 68,2                                                   | 10089                                                    | 3,12                                                     | MHE 2280            | 13,2                       | 315S6          |
|                                                     | 70,0                                                   | 9829                                                     | 2,72                                                     | MHE 2250            | 12,9                       | 315 S6         |
|                                                     | 70,0                                                   | 9827                                                     | 2,54                                                     | MHE 2250            | 20,0                       | 280 S4         |
|                                                     | 70,0                                                   | 9827                                                     | 3,37                                                     | MHE 2280            | 20,0                       | 280S4          |
|                                                     | 71,1                                                   | 9670                                                     | 1,55                                                     | MHE 2225            | 19,7                       | 280S4          |
|                                                     | 71,3                                                   | 9645                                                     | 1,09                                                     | MHE 2200            | 19,6                       | 280S4          |
|                                                     | 82,7                                                   | 8314                                                     | 1,82                                                     | MHE 2225            | 16,9                       | 280S4          |
|                                                     | 82,9                                                   | 8294                                                     | 1,34                                                     | MHE 2200            | 16,9                       | 280S4          |
|                                                     | 83,4                                                   | 8250                                                     | 3,03                                                     | MHE 2250            | 16,8                       | 280 S4         |
|                                                     | 90,4                                                   | 7613                                                     | 3,40                                                     | MHE 2250            | 10,0                       | 315 S6         |
|                                                     | 107                                                    | 6422                                                     | 1,79                                                     | MHE 2200            | 13,1                       | 280S4          |
|                                                     | 109                                                    | 6319                                                     | 4,07                                                     | MHE 2250            | 12,9                       | 280 S4         |
|                                                     | 112                                                    | 6132                                                     | 2,61                                                     | MHE 2225            | 12,5                       | 280S4          |
| 90                                                  | 138                                                    | 4977                                                     | 2,31                                                     | MHE 2200            | 10,1                       | 280S4          |
|                                                     | 145                                                    | 4756                                                     | 3,41                                                     | MHE 2225            | 9,68                       | 280S4          |
|                                                     | 177                                                    | 3891                                                     | 2,83                                                     | MHE 2200            | 7,92                       | 280S4          |
|                                                     | 218                                                    | 3159                                                     | 3,17                                                     | MHE 2200            | 6,43                       | 280S4          |
|                                                     | 13,0                                                   | 62388                                                    | 1,18                                                     | MHE 3360            | 69,4                       | 315MA6         |
|                                                     | 13,4                                                   | 60319                                                    | 1,16                                                     | MHE 3360            | 104                        | 280M4          |
|                                                     | 16,8                                                   | 48266                                                    | 1,47                                                     | MHE 3360            | 83,5                       | 280M4          |
|                                                     | 17,2                                                   | 46994                                                    | 1,03                                                     | MHE 3320            | 81,3                       | 280M4          |
|                                                     | 17,4                                                   | 46569                                                    | 1,58                                                     | MHE 3360            | 51,8                       | 315MA6         |
|                                                     | 17,4                                                   | 46389                                                    | 1,09                                                     | MHE 3320            | 51,6                       | 315MA6         |
|                                                     | 20,2                                                   | 40107                                                    | 1,77                                                     | MHE 3360            | 69,4                       | 280M4          |
|                                                     | 20,7                                                   | 39055                                                    | 1,24                                                     | MHE 3320            | 67,6                       | 280M4          |
|                                                     | 22,7                                                   | 35666                                                    | 2,03                                                     | MHE 3360            | 39,7                       | 315MA6         |
|                                                     | 22,8                                                   | 35522                                                    | 1,42                                                     | MHE 3320            | 39,5                       | 315MA6         |
|                                                     | 26,1                                                   | 31029                                                    | 1,14                                                     | MHE 3280            | 53,7                       | 280M4          |
|                                                     | 27,0                                                   | 29937                                                    | 2,36                                                     | MHE 3360            | 51,8                       | 280M4          |
|                                                     | 27,1                                                   | 29822                                                    | 1,62                                                     | MHE 3320            | 51,6                       | 280M4          |
|                                                     | 28,7                                                   | 28224                                                    | 1,20                                                     | MHE 3280            | 31,4                       | 315MA6         |
|                                                     | 30,2                                                   | 26776                                                    | 2,65                                                     | MHE 3360            | 29,8                       | 315MA6         |
|                                                     | 30,3                                                   | 26669                                                    | 1,85                                                     | MHE 3320            | 29,7                       | 315MA6         |
| 90                                                  | 33,7                                                   | 24038                                                    | 1,37                                                     | MHE 3280            | 41,6                       | 280M4          |
|                                                     | 34,5                                                   | 23454                                                    | 1,10                                                     | MHE 3250            | 40,6                       | 280 M4         |
|                                                     | 35,3                                                   | 22928                                                    | 3,03                                                     | MHE 3360            | 39,7                       | 280M4          |
|                                                     | 35,4                                                   | 22836                                                    | 2,12                                                     | MHE 3320            | 39,5                       | 280M4          |
|                                                     | 35,9                                                   | 22975                                                    | 1,79                                                     | MHE 3320            | 25,1                       | 315MA6         |
|                                                     | 36,1                                                   | 22838                                                    | 1,28                                                     | MHE 2280            | 24,9                       | 315MA6         |
|                                                     | 36,4                                                   | 22664                                                    | 2,73                                                     | MHE 2360            | 24,7                       | 315MA6         |

| P <sub>1</sub><br>Giriş Gücü<br>Input Power<br>[kW] | n <sub>2</sub><br>Çıkış Devri<br>Output Speed<br>[rpm] | M <sub>2</sub><br>Çıkış Momenti<br>Output Torque<br>[Nm] | f <sub>s</sub><br>Servis<br>Faktörü<br>Service<br>Factor | Redüktör<br>Gearbox | i<br>Tahvil Oranı<br>Ratio | Motor<br>Motor |
|-----------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|---------------------|----------------------------|----------------|
| 90                                                  | 43,6                                                   | 18940                                                    | 2,39                                                     | MHE 2320            | 20,7                       | 315MA6         |
|                                                     | 44,6                                                   | 18144                                                    | 1,79                                                     | MHE 3280            | 31,4                       | 280M4          |
|                                                     | 45,0                                                   | 18344                                                    | 1,42                                                     | MHE 2250            | 20,0                       | 315 MA6        |
|                                                     | 45,0                                                   | 18344                                                    | 1,88                                                     | MHE 2280            | 20,0                       | 315MA6         |
|                                                     | 45,5                                                   | 17762                                                    | 0,95                                                     | MHE 3225            | 30,7                       | 280M4          |
|                                                     | 45,7                                                   | 17699                                                    | 1,47                                                     | MHE 3250            | 30,6                       | 280 M4         |
|                                                     | 47,2                                                   | 17144                                                    | 2,76                                                     | MHE 3320            | 29,7                       | 280M4          |
|                                                     | 53,6                                                   | 15399                                                    | 1,69                                                     | MHE 2250            | 16,8                       | 315 MA6        |
|                                                     | 53,6                                                   | 15409                                                    | 2,23                                                     | MHE 2280            | 16,8                       | 315MA6         |
|                                                     | 54,5                                                   | 15152                                                    | 3,10                                                     | MHE 2320            | 16,5                       | 315MA6         |
|                                                     | 55,9                                                   | 14770                                                    | 2,68                                                     | MHE 2320            | 25,1                       | 280M4          |
|                                                     | 56,0                                                   | 14446                                                    | 1,03                                                     | MHE 3225            | 25,0                       | 280M4          |
|                                                     | 56,0                                                   | 14735                                                    | 1,27                                                     | MHE 2250            | 25,0                       | 280 M4         |
|                                                     | 56,2                                                   | 14681                                                    | 1,92                                                     | MHE 2280            | 24,9                       | 280M4          |
|                                                     | 58,9                                                   | 14003                                                    | 0,98                                                     | MHE 2225            | 23,8                       | 280M4          |
|                                                     | 68,2                                                   | 12107                                                    | 2,60                                                     | MHE 2280            | 13,2                       | 315MA6         |
|                                                     | 70,0                                                   | 11795                                                    | 2,27                                                     | MHE 2250            | 12,9                       | 315 MA6        |
|                                                     | 70,0                                                   | 11792                                                    | 2,12                                                     | MHE 2250            | 20,0                       | 280 M4         |
|                                                     | 70,0                                                   | 11792                                                    | 2,81                                                     | MHE 2280            | 20,0                       | 280M4          |
|                                                     | 71,1                                                   | 11604                                                    | 1,29                                                     | MHE 2225            | 19,7                       | 280M4          |
| 90                                                  | 82,7                                                   | 9976                                                     | 1,52                                                     | MHE 2225            | 16,9                       | 280M4          |
|                                                     | 82,9                                                   | 9953                                                     | 1,12                                                     | MHE 2200            | 16,9                       | 280M4          |
|                                                     | 83,3                                                   | 9906                                                     | 3,34                                                     | MHE 2280            | 16,8                       | 280M4          |
|                                                     | 83,4                                                   | 9900                                                     | 2,53                                                     | MHE 2250            | 16,8                       | 280 M4         |
|                                                     | 88,2                                                   | 9355                                                     | 3,39                                                     | MHE 2280            | 10,2                       | 315MA6         |
|                                                     | 90,4                                                   | 9135                                                     | 2,83                                                     | MHE 2250            | 10,0                       | 315 MA6        |
|                                                     | 107                                                    | 7706                                                     | 1,49                                                     | MHE 2200            | 13,1                       | 280M4          |
|                                                     | 109                                                    | 7582                                                     | 3,39                                                     | MHE 2250            | 12,9                       | 280 M4         |
|                                                     | 111                                                    | 7411                                                     | 3,23                                                     | MHE 2250            | 8,08                       | 315 MA6        |
|                                                     | 112                                                    | 7358                                                     | 2,17                                                     | MHE 2225            | 12,5                       | 280M4          |
|                                                     | 138                                                    | 5973                                                     | 1,93                                                     | MHE 2200            | 10,1                       | 280M4          |
|                                                     | 145                                                    | 5707                                                     | 2,84                                                     | MHE 2225            | 9,68                       | 280M4          |
|                                                     | 177                                                    | 4670                                                     | 2,36                                                     | MHE 2200            | 7,92                       | 280M4          |
|                                                     | 218                                                    | 3791                                                     | 2,64                                                     | MHE 2200            | 6,43                       | 280M4          |
| 110                                                 | 16,8                                                   | 58991                                                    | 1,20                                                     | MHE 3360            | 83,5                       | 315S4          |
|                                                     | 17,4                                                   | 56917                                                    | 1,29                                                     | MHE 3360            | 51,8                       | 315MB6         |
|                                                     | 20,2                                                   | 49019                                                    | 1,45                                                     | MHE 3360            | 69,4                       | 315S4          |
|                                                     | 20,7                                                   | 47734                                                    | 1,01                                                     | MHE 3320            | 67,6                       | 315S4          |
|                                                     | 22,7                                                   | 43592                                                    | 1,66                                                     | MHE 3360            | 39,7                       | 315MB6         |
|                                                     | 22,8                                                   | 43416                                                    | 1,16                                                     | MHE 3320            | 39,5                       | 315MB6         |
|                                                     | 27,0                                                   | 36590                                                    | 1,93                                                     | MHE 3360            | 51,8                       | 315S4          |
|                                                     | 27,1                                                   | 36449                                                    | 1,33                                                     | MHE 3320            | 51,6                       | 315S4          |
|                                                     | 30,2                                                   | 32727                                                    | 2,17                                                     | MHE 3360            | 29,8                       | 315MB6         |
|                                                     | 30,3                                                   | 32595                                                    | 1,51                                                     | MHE 3320            | 29,7                       | 315MB6         |
|                                                     | 33,7                                                   | 29379                                                    | 1,12                                                     | MHE 3280            | 41,6                       | 315S4          |
|                                                     | 35,3                                                   | 28023                                                    | 2,48                                                     | MHE 3360            | 39,7                       | 315S4          |
| 110                                                 | 35,4                                                   | 27910                                                    | 1,73                                                     | MHE 3320            | 39,5                       | 315S4          |





## MHE Performans Tabloları / Performance Tables

| P <sub>1</sub><br>Giriş Gücü<br>Input Power<br>[kW] | n <sub>2</sub><br>Çıkış Devri<br>Output Speed<br>[rpm] | M <sub>2</sub><br>Çıkış Momenti<br>Output Torque<br>[Nm] | f <sub>s</sub><br>Servis<br>Faktörü<br>Service<br>Factor | Redüktör<br>Gearbox | i<br>Tahvil Oranı<br>Ratio | Motor<br>Motor |
|-----------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|---------------------|----------------------------|----------------|
| 110                                                 | 35,9                                                   | 28081                                                    | 1,47                                                     | MHE 2320            | 25,1                       | 315MB6         |
|                                                     | 36,1                                                   | 27913                                                    | 1,05                                                     | MHE 2280            | 24,9                       | 315MB6         |
|                                                     | 36,4                                                   | 27700                                                    | 2,23                                                     | MHE 2360            | 24,7                       | 315MB6         |
|                                                     | 42,5                                                   | 23765                                                    | 2,94                                                     | MHE 2360            | 21,2                       | 315MB6         |
|                                                     | 43,6                                                   | 23149                                                    | 1,95                                                     | MHE 2320            | 20,7                       | 315MB6         |
|                                                     | 44,6                                                   | 22176                                                    | 1,47                                                     | MHE 3280            | 31,4                       | 315S4          |
|                                                     | 45,0                                                   | 22420                                                    | 1,16                                                     | MHE 2250            | 20,0                       | 315 MB6        |
|                                                     | 45,0                                                   | 22420                                                    | 1,53                                                     | MHE 2280            | 20,0                       | 315MB6         |
|                                                     | 45,7                                                   | 21632                                                    | 1,20                                                     | MHE 3250            | 30,6                       | 315 S4         |
|                                                     | 47,0                                                   | 21039                                                    | 3,24                                                     | MHE 3360            | 29,8                       | 315S4          |
|                                                     | 47,2                                                   | 20954                                                    | 2,26                                                     | MHE 3320            | 29,7                       | 315S4          |
|                                                     | 53,0                                                   | 19023                                                    | 3,50                                                     | MHE 2360            | 17,0                       | 315MB6         |
|                                                     | 53,6                                                   | 18822                                                    | 1,38                                                     | MHE 2250            | 16,8                       | 315 MB6        |
|                                                     | 53,6                                                   | 18833                                                    | 1,83                                                     | MHE 2280            | 16,8                       | 315MB6         |
|                                                     | 54,5                                                   | 18519                                                    | 2,53                                                     | MHE 2320            | 16,5                       | 315MB6         |
|                                                     | 55,9                                                   | 18052                                                    | 2,19                                                     | MHE 2320            | 25,1                       | 315S4          |
|                                                     | 56,0                                                   | 18009                                                    | 1,04                                                     | MHE 2250            | 25,0                       | 315 S4         |
|                                                     | 56,2                                                   | 17944                                                    | 1,57                                                     | MHE 2280            | 24,9                       | 315S4          |
|                                                     | 56,7                                                   | 17807                                                    | 3,34                                                     | MHE 2360            | 24,7                       | 315S4          |
|                                                     | 67,8                                                   | 14881                                                    | 2,92                                                     | MHE 2320            | 20,7                       | 315S4          |
|                                                     | 68,2                                                   | 14797                                                    | 2,13                                                     | MHE 2280            | 13,2                       | 315MB6         |
|                                                     | 70,0                                                   | 14416                                                    | 1,85                                                     | MHE 2250            | 12,9                       | 315 MB6        |
|                                                     | 70,0                                                   | 14413                                                    | 1,73                                                     | MHE 2250            | 20,0                       | 315 S4         |
|                                                     | 70,0                                                   | 14413                                                    | 2,30                                                     | MHE 2280            | 20,0                       | 315S4          |
|                                                     | 71,3                                                   | 14147                                                    | 3,25                                                     | MHE 2320            | 12,6                       | 315MB6         |
|                                                     | 83,3                                                   | 12107                                                    | 2,73                                                     | MHE 2280            | 16,8                       | 315S4          |
|                                                     | 83,4                                                   | 12100                                                    | 2,07                                                     | MHE 2250            | 16,8                       | 315 S4         |
|                                                     | 88,2                                                   | 11434                                                    | 2,77                                                     | MHE 2280            | 10,2                       | 315MB6         |
|                                                     | 90,4                                                   | 11165                                                    | 2,32                                                     | MHE 2250            | 10,0                       | 315 MB6        |
|                                                     | 106                                                    | 9512                                                     | 3,18                                                     | MHE 2280            | 13,2                       | 315S4          |
|                                                     | 109                                                    | 9267                                                     | 2,77                                                     | MHE 2250            | 12,9                       | 315 S4         |
|                                                     | 111                                                    | 9058                                                     | 2,64                                                     | MHE 2250            | 8,08                       | 315 MB6        |
|                                                     | 111                                                    | 9058                                                     | 2,92                                                     | MHE 2280            | 8,08                       | 315MB6         |
|                                                     | 141                                                    | 7178                                                     | 3,46                                                     | MHE 2250            | 10,0                       | 315 S4         |
|                                                     | 143                                                    | 7074                                                     | 3,29                                                     | MHE 2250            | 6,31                       | 315 MB6        |
| 132                                                 | 16,8                                                   | 70790                                                    | 1,00                                                     | MHE 3360            | 83,5                       | 315MA4         |
|                                                     | 17,4                                                   | 68301                                                    | 1,08                                                     | MHE 3360            | 51,8                       | 315LA6         |
|                                                     | 20,2                                                   | 58823                                                    | 1,21                                                     | MHE 3360            | 69,4                       | 315MA4         |
|                                                     | 22,7                                                   | 52310                                                    | 1,38                                                     | MHE 3360            | 39,7                       | 315LA6         |
|                                                     | 27,0                                                   | 43908                                                    | 1,61                                                     | MHE 3360            | 51,8                       | 315MA4         |
|                                                     | 27,1                                                   | 43738                                                    | 1,11                                                     | MHE 3320            | 51,6                       | 315MA4         |
|                                                     | 30,2                                                   | 39272                                                    | 1,81                                                     | MHE 3360            | 29,8                       | 315LA6         |
|                                                     | 30,3                                                   | 39114                                                    | 1,26                                                     | MHE 3320            | 29,7                       | 315LA6         |
|                                                     | 35,3                                                   | 33628                                                    | 2,07                                                     | MHE 3360            | 39,7                       | 315MA4         |
|                                                     | 35,4                                                   | 33492                                                    | 1,45                                                     | MHE 3320            | 39,5                       | 315MA4         |
|                                                     | 35,9                                                   | 33697                                                    | 1,22                                                     | MHE 2320            | 25,1                       | 315LA6         |

| P <sub>1</sub><br>Giriş Gücü<br>Input Power<br>[kW] | n <sub>2</sub><br>Çıkış Devri<br>Output Speed<br>[rpm] | M <sub>2</sub><br>Çıkış Momenti<br>Output Torque<br>[Nm] | f <sub>s</sub><br>Servis<br>Faktörü<br>Service<br>Factor | Redüktör<br>Gearbox | i<br>Tahvil Oranı<br>Ratio | Motor<br>Motor |
|-----------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|---------------------|----------------------------|----------------|
| 132                                                 | 36,4                                                   | 33240                                                    | 1,86                                                     | MHE 2360            | 24,7                       | 315LA6         |
|                                                     | 42,5                                                   | 28518                                                    | 2,45                                                     | MHE 2360            | 21,2                       | 315LA6         |
|                                                     | 43,6                                                   | 27778                                                    | 1,63                                                     | MHE 2320            | 20,7                       | 315LA6         |
|                                                     | 44,6                                                   | 26611                                                    | 1,22                                                     | MHE 3280            | 31,4                       | 315MA4         |
|                                                     | 45,0                                                   | 26904                                                    | 0,97                                                     | MHE 2250            | 20,0                       | 315 LA6        |
|                                                     | 45,0                                                   | 26904                                                    | 1,28                                                     | MHE 2280            | 20,0                       | 315LA6         |
|                                                     | 47,0                                                   | 25246                                                    | 2,70                                                     | MHE 3360            | 29,8                       | 315MA4         |
|                                                     | 47,2                                                   | 25145                                                    | 1,89                                                     | MHE 3320            | 29,7                       | 315MA4         |
|                                                     | 53,0                                                   | 22828                                                    | 2,91                                                     | MHE 2360            | 17,0                       | 315LA6         |
|                                                     | 53,6                                                   | 22586                                                    | 1,15                                                     | MHE 2250            | 16,8                       | 315 LA6        |
|                                                     | 53,6                                                   | 22599                                                    | 1,52                                                     | MHE 2280            | 16,8                       | 315LA6         |
|                                                     | 54,5                                                   | 22223                                                    | 2,11                                                     | MHE 2320            | 16,5                       | 315LA6         |
|                                                     | 55,9                                                   | 21663                                                    | 1,83                                                     | MHE 2320            | 25,1                       | 315MA4         |
|                                                     | 56,2                                                   | 21533                                                    | 1,31                                                     | MHE 2280            | 24,9                       | 315MA4         |
|                                                     | 56,7                                                   | 21369                                                    | 2,78                                                     | MHE 2360            | 24,7                       | 315MA4         |
|                                                     | 67,8                                                   | 17858                                                    | 2,44                                                     | MHE 2320            | 20,7                       | 315MA4         |
|                                                     | 68,2                                                   | 17757                                                    | 1,77                                                     | MHE 2280            | 13,2                       | 315LA6         |
|                                                     | 70,0                                                   | 17299                                                    | 1,55                                                     | MHE 2250            | 12,9                       | 315 LA6        |
|                                                     | 70,0                                                   | 17295                                                    | 1,44                                                     | MHE 2250            | 20,0                       | 315 MA4        |
|                                                     | 70,0                                                   | 17295                                                    | 1,91                                                     | MHE 2280            | 20,0                       | 315MA4         |
|                                                     | 71,3                                                   | 16976                                                    | 2,71                                                     | MHE 2320            | 12,6                       | 315LA6         |
|                                                     | 83,3                                                   | 14528                                                    | 2,27                                                     | MHE 2280            | 16,8                       | 315MA4         |
|                                                     | 83,4                                                   | 14520                                                    | 1,72                                                     | MHE 2250            | 16,8                       | 315 MA4        |
|                                                     | 84,7                                                   | 14286                                                    | 3,16                                                     | MHE 2320            | 16,5                       | 315MA4         |
|                                                     | 88,2                                                   | 13721                                                    | 2,31                                                     | MHE 2280            | 10,2                       | 315LA6         |
|                                                     | 90,4                                                   | 13398                                                    | 1,93                                                     | MHE 2250            | 10,0                       | 315 LA6        |
|                                                     | 93,2                                                   | 12995                                                    | 3,48                                                     | MHE 2320            | 9,66                       | 315LA6         |
|                                                     | 106                                                    | 11415                                                    | 2,65                                                     | MHE 2280            | 13,2                       | 315MA4         |
|                                                     | 109                                                    | 11121                                                    | 2,31                                                     | MHE 2250            | 12,9                       | 315 MA4        |
|                                                     | 111                                                    | 10869                                                    | 2,20                                                     | MHE 2250            | 8,08                       | 315 LA6        |
|                                                     | 111                                                    | 10869                                                    | 2,43                                                     | MHE 2280            | 8,08                       | 315LA6         |
|                                                     | 137                                                    | 8821                                                     | 3,45                                                     | MHE 2280            | 10,2                       | 315MA4         |
|                                                     | 141                                                    | 8613                                                     | 2,89                                                     | MHE 2250            | 10,0                       | 315 MA4        |
|                                                     | 142                                                    | 8502                                                     | 3,08                                                     | MHE 2280            | 6,32                       | 315LA6         |
|                                                     | 143                                                    | 8488                                                     | 2,74                                                     | MHE 2250            | 6,31                       | 315 LA6        |
|                                                     | 173                                                    | 6987                                                     | 3,29                                                     | MHE 2250            | 8,08                       | 315 MA4        |
| 160                                                 | 20,2                                                   | 71301                                                    | 1,00                                                     | MHE 3360            | 69,4                       | 315MB4         |
|                                                     | 22,7                                                   | 63406                                                    | 1,14                                                     | MHE 3360            | 39,7                       | 315LB6         |
|                                                     | 27,0                                                   | 53222                                                    | 1,33                                                     | MHE 3360            | 51,8                       | 315MB4         |
|                                                     | 30,2                                                   | 47602                                                    | 1,49                                                     | MHE 3360            | 29,8                       | 315LB6         |
|                                                     | 30,3                                                   | 47411                                                    | 1,04                                                     | MHE 3320            | 29,7                       | 315LB6         |
|                                                     | 35,3                                                   | 40761                                                    | 1,70                                                     | MHE 3360            | 39,7                       | 315MB4         |
|                                                     | 35,4                                                   | 40597                                                    | 1,19                                                     | MHE 3320            | 39,5                       | 315MB4         |
|                                                     | 35,9                                                   | 40845                                                    | 1,01                                                     | MHE 2320            | 25,1                       | 315LB6         |
|                                                     | 36,4                                                   | 40291                                                    | 1,54                                                     | MHE 2360            | 24,7                       | 315LB6         |
|                                                     | 42,5                                                   | 34568                                                    | 2,02                                                     | MHE 2360            | 21,2                       | 315LB6         |



## MHE Performans Tabloları / Performance Tables

| P <sub>1</sub><br>Giriş Gücü<br>Input Power<br>[kW] | n <sub>2</sub><br>Çıkış Devri<br>Output Speed<br>[rpm] | M <sub>2</sub><br>Çıkış Momenti<br>Output Torque<br>[Nm] | f <sub>s</sub><br>Servis<br>Faktörü<br>Service<br>Factor | Redüktör<br>Gearbox | i<br>Tahvil Oranı<br>Ratio | Motor<br>Motor |
|-----------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|---------------------|----------------------------|----------------|
| 160                                                 | 43,6                                                   | 33671                                                    | 1,34                                                     | MHE 2320            | 20,7                       | 315LB6         |
|                                                     | 44,6                                                   | 32255                                                    | 1,01                                                     | MHE 3280            | 31,4                       | 315MB4         |
|                                                     | 45,0                                                   | 32611                                                    | 1,06                                                     | MHE 2280            | 20,0                       | 315LB6         |
|                                                     | 47,0                                                   | 30602                                                    | 2,23                                                     | MHE 3360            | 29,8                       | 315MB4         |
|                                                     | 47,2                                                   | 30478                                                    | 1,56                                                     | MHE 3320            | 29,7                       | 315MB4         |
|                                                     | 53,0                                                   | 27670                                                    | 2,40                                                     | MHE 2360            | 17,0                       | 315LB6         |
|                                                     | 53,6                                                   | 27377                                                    | 0,95                                                     | MHE 2250            | 16,8                       | 315 LB6        |
|                                                     | 53,6                                                   | 27393                                                    | 1,25                                                     | MHE 2280            | 16,8                       | 315LB6         |
|                                                     | 54,5                                                   | 26937                                                    | 1,74                                                     | MHE 2320            | 16,5                       | 315LB6         |
|                                                     | 55,9                                                   | 26258                                                    | 1,51                                                     | MHE 2320            | 25,1                       | 315MB4         |
|                                                     | 56,2                                                   | 26100                                                    | 1,08                                                     | MHE 2280            | 24,9                       | 315MB4         |
|                                                     | 56,7                                                   | 25901                                                    | 2,30                                                     | MHE 2360            | 24,7                       | 315MB4         |
|                                                     | 66,0                                                   | 22222                                                    | 3,02                                                     | MHE 2360            | 21,2                       | 315MB4         |
|                                                     | 67,8                                                   | 21645                                                    | 2,01                                                     | MHE 2320            | 20,7                       | 315MB4         |
|                                                     | 68,2                                                   | 21523                                                    | 1,46                                                     | MHE 2280            | 13,2                       | 315LB6         |
|                                                     | 70,0                                                   | 20969                                                    | 1,27                                                     | MHE 2250            | 12,9                       | 315 LB6        |
|                                                     | 70,0                                                   | 20964                                                    | 1,19                                                     | MHE 2250            | 20,0                       | 315 MB4        |
|                                                     | 70,0                                                   | 20964                                                    | 1,58                                                     | MHE 2280            | 20,0                       | 315MB4         |
|                                                     | 71,0                                                   | 20659                                                    | 3,26                                                     | MHE 2360            | 12,7                       | 315LB6         |
|                                                     | 71,3                                                   | 20577                                                    | 2,23                                                     | MHE 2320            | 12,6                       | 315LB6         |
|                                                     | 83,3                                                   | 17610                                                    | 1,88                                                     | MHE 2280            | 16,8                       | 315MB4         |
|                                                     | 83,4                                                   | 17599                                                    | 1,42                                                     | MHE 2250            | 16,8                       | 315 MB4        |
|                                                     | 84,7                                                   | 17316                                                    | 2,60                                                     | MHE 2320            | 16,5                       | 315MB4         |
|                                                     | 88,2                                                   | 16632                                                    | 1,90                                                     | MHE 2280            | 10,2                       | 315LB6         |
|                                                     | 90,4                                                   | 16240                                                    | 1,59                                                     | MHE 2250            | 10,0                       | 315 LB6        |
|                                                     | 92,8                                                   | 15816                                                    | 4,22                                                     | MHE 2360            | 9,70                       | 315LB6         |
|                                                     | 93,2                                                   | 15751                                                    | 2,87                                                     | MHE 2320            | 9,66                       | 315LB6         |
|                                                     | 106                                                    | 13836                                                    | 2,19                                                     | MHE 2280            | 13,2                       | 315MB4         |
|                                                     | 109                                                    | 13480                                                    | 1,91                                                     | MHE 2250            | 12,9                       | 315 MB4        |
|                                                     | 111                                                    | 13175                                                    | 1,82                                                     | MHE 2250            | 8,08                       | 315 LB6        |
|                                                     | 111                                                    | 13228                                                    | 3,34                                                     | MHE 2320            | 12,6                       | 315MB4         |
|                                                     | 111                                                    | 13175                                                    | 2,01                                                     | MHE 2280            | 8,08                       | 315LB6         |
|                                                     | 114                                                    | 12914                                                    | 3,37                                                     | MHE 2320            | 7,92                       | 315LB6         |
|                                                     | 137                                                    | 10692                                                    | 2,85                                                     | MHE 2280            | 10,2                       | 315MB4         |
|                                                     | 140                                                    | 10468                                                    | 3,73                                                     | MHE 2320            | 6,42                       | 315LB6         |
|                                                     | 141                                                    | 10440                                                    | 2,38                                                     | MHE 2250            | 10,0                       | 315 MB4        |
|                                                     | 142                                                    | 10305                                                    | 2,54                                                     | MHE 2280            | 6,32                       | 315LB6         |
|                                                     | 143                                                    | 10289                                                    | 2,26                                                     | MHE 2250            | 6,31                       | 315 LB6        |
|                                                     | 173                                                    | 8470                                                     | 2,72                                                     | MHE 2250            | 8,08                       | 315 MB4        |
|                                                     | 173                                                    | 8470                                                     | 3,00                                                     | MHE 2280            | 8,08                       | 315MB4         |
|                                                     | 222                                                    | 6614                                                     | 3,38                                                     | MHE 2250            | 6,31                       | 315 MB4        |
| 185                                                 | 27,0                                                   | 61537                                                    | 1,15                                                     | MHE 3360            | 51,8                       | 315LA4         |
|                                                     | 35,3                                                   | 47130                                                    | 1,47                                                     | MHE 3360            | 39,7                       | 315LA4         |
|                                                     | 35,4                                                   | 46940                                                    | 1,03                                                     | MHE 3320            | 39,5                       | 315LA4         |
|                                                     | 47,0                                                   | 35383                                                    | 1,93                                                     | MHE 3360            | 29,8                       | 315LA4         |
|                                                     | 47,2                                                   | 35241                                                    | 1,35                                                     | MHE 3320            | 29,7                       | 315LA4         |
|                                                     | 55,9                                                   | 30360                                                    | 1,30                                                     | MHE 2320            | 25,1                       | 315LA4         |

| P <sub>1</sub><br>Giriş Gücü<br>Input Power<br>[kW] | n <sub>2</sub><br>Çıkış Devri<br>Output Speed<br>[rpm] | M <sub>2</sub><br>Çıkış Momenti<br>Output Torque<br>[Nm] | f <sub>s</sub><br>Servis<br>Faktörü<br>Service<br>Factor | Redüktör<br>Gearbox | i<br>Tahvil Oranı<br>Ratio | Motor<br>Motor |
|-----------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|---------------------|----------------------------|----------------|
| 185                                                 | 56,7                                                   | 29948                                                    | 1,99                                                     | MHE 2360            | 24,7                       | 315LA4         |
|                                                     | 66,0                                                   | 25694                                                    | 2,61                                                     | MHE 2360            | 21,2                       | 315LA4         |
|                                                     | 67,8                                                   | 25028                                                    | 1,74                                                     | MHE 2320            | 20,7                       | 315LA4         |
|                                                     | 70,0                                                   | 24240                                                    | 1,03                                                     | MHE 2250            | 20,0                       | 315 LA4        |
|                                                     | 70,0                                                   | 24240                                                    | 1,37                                                     | MHE 2280            | 20,0                       | 315LA4         |
|                                                     | 82,5                                                   | 20567                                                    | 3,11                                                     | MHE 2360            | 17,0                       | 315LA4         |
|                                                     | 83,3                                                   | 20361                                                    | 1,62                                                     | MHE 2280            | 16,8                       | 315LA4         |
|                                                     | 83,4                                                   | 20349                                                    | 1,23                                                     | MHE 2250            | 16,8                       | 315 LA4        |
|                                                     | 84,7                                                   | 20022                                                    | 2,25                                                     | MHE 2320            | 16,5                       | 315LA4         |
|                                                     | 106                                                    | 15998                                                    | 1,89                                                     | MHE 2280            | 13,2                       | 315LA4         |
|                                                     | 109                                                    | 15586                                                    | 1,65                                                     | MHE 2250            | 12,9                       | 315 LA4        |
|                                                     | 111                                                    | 15295                                                    | 2,89                                                     | MHE 2320            | 12,6                       | 315LA4         |
|                                                     | 137                                                    | 12362                                                    | 2,46                                                     | MHE 2280            | 10,2                       | 315LA4         |
|                                                     | 141                                                    | 12071                                                    | 2,06                                                     | MHE 2250            | 10,0                       | 315 LA4        |
|                                                     | 173                                                    | 9793                                                     | 2,35                                                     | MHE 2250            | 8,08                       | 315 LA4        |
|                                                     | 173                                                    | 9793                                                     | 2,60                                                     | MHE 2280            | 8,08                       | 315LA4         |
|                                                     | 222                                                    | 7648                                                     | 2,92                                                     | MHE 2250            | 6,31                       | 315 LA4        |
|                                                     | 222                                                    | 7660                                                     | 3,28                                                     | MHE 2280            | 6,32                       | 315LA4         |
|                                                     | 27,0                                                   | 66527                                                    | 1,06                                                     | MHE 3360            | 51,8                       | 315LB4         |
|                                                     | 35,3                                                   | 50951                                                    | 1,36                                                     | MHE 3360            | 39,7                       | 315LB4         |
| 200                                                 | 47,0                                                   | 38252                                                    | 1,78                                                     | MHE 3360            | 29,8                       | 315LB4         |
|                                                     | 47,2                                                   | 38098                                                    | 1,24                                                     | MHE 3320            | 29,7                       | 315LB4         |
|                                                     | 55,9                                                   | 32822                                                    | 1,21                                                     | MHE 2320            | 25,1                       | 315LB4         |
|                                                     | 56,7                                                   | 32377                                                    | 1,84                                                     | MHE 2360            | 24,7                       | 315LB4         |
|                                                     | 66,0                                                   | 27778                                                    | 2,42                                                     | MHE 2360            | 21,2                       | 315LB4         |
|                                                     | 67,8                                                   | 27057                                                    | 1,61                                                     | MHE 2320            | 20,7                       | 315LB4         |
|                                                     | 70,0                                                   | 26205                                                    | 0,95                                                     | MHE 2250            | 20,0                       | 315 LB4        |
|                                                     | 70,0                                                   | 26205                                                    | 1,26                                                     | MHE 2280            | 20,0                       | 315LB4         |
|                                                     | 82,5                                                   | 22235                                                    | 2,88                                                     | MHE 2360            | 17,0                       | 315LB4         |
|                                                     | 83,3                                                   | 22012                                                    | 1,50                                                     | MHE 2280            | 16,8                       | 315LB4         |
|                                                     | 83,4                                                   | 21999                                                    | 1,14                                                     | MHE 2250            | 16,8                       | 315 LB4        |
|                                                     | 84,7                                                   | 21645                                                    | 2,08                                                     | MHE 2320            | 16,5                       | 315LB4         |
|                                                     | 106                                                    | 17295                                                    | 1,75                                                     | MHE 2280            | 13,2                       | 315LB4         |
|                                                     | 109                                                    | 16850                                                    | 1,53                                                     | MHE 2250            | 12,9                       | 315 LB4        |
|                                                     | 110                                                    | 16601                                                    | 3,90                                                     | MHE 2360            | 12,7                       | 315LB4         |
|                                                     | 111                                                    | 16535                                                    | 2,67                                                     | MHE 2320            | 12,6                       | 315LB4         |
|                                                     | 137                                                    | 13365                                                    | 2,28                                                     | MHE 2280            | 10,2                       | 315LB4         |
|                                                     | 141                                                    | 13050                                                    | 1,90                                                     | MHE 2250            | 10,0                       | 315 LB4        |
|                                                     | 144                                                    | 12710                                                    | 5,05                                                     | MHE 2360            | 9,70                       | 315LB4         |
|                                                     | 145                                                    | 12657                                                    | 3,44                                                     | MHE 2320            | 9,66                       | 315LB4         |
|                                                     | 173                                                    | 10587                                                    | 2,17                                                     | MHE 2250            | 8,08                       | 315 LB4        |
|                                                     | 173                                                    | 10587                                                    | 2,40                                                     | MHE 2280            | 8,08                       | 315LB4         |
|                                                     | 177                                                    | 10377                                                    | 4,03                                                     | MHE 2320            | 7,92                       | 315LB4         |
|                                                     | 218                                                    | 8412                                                     | 4,46                                                     | MHE 2320            | 6,42                       | 315LB4         |
|                                                     | 222                                                    | 8268                                                     | 2,70                                                     | MHE 2250            | 6,31                       | 315 LB4        |
|                                                     | 222                                                    | 8281                                                     | 3,04                                                     | MHE 2280            | 6,32                       | 315LB4         |



## MHE IEC Bağlantı Kombinasyonları / IEC Combinations

Aşağıdaki tablolarda redüktörlerin 4 kutuplu 1400 d/d Elektrik motorları ile bağlanabilirlik durumları ve mümkün kombinasyonlar için redüktör servis faktörü değerleri listelenmiştir.

The connectivity of gearboxes with 1400 rpm and 4 poles motors and the service factor values for possible combinations listed in the following tables.

|                | 0,55 kW<br>80 A4 | 0,75 kW<br>80 B4 | 1,1 kW<br>90 S4 | 1,5 kW<br>90 L4 | 2,2 kW<br>100 LA4 | 3 kW<br>100 LB4 | 4 kW<br>112 M4 | 5,5 kW<br>132 S4 | 7,5 kW<br>132 MA4 | 11 kW<br>160 M4 | 15 kW<br>160 L4 | 18,5 kW<br>180 M4 | 22 kW<br>180 L4 | 30 kW<br>200 L4 | 37 kW<br>225 S4 | 45 kW<br>225 M4 | 55 kW<br>250 M4 |
|----------------|------------------|------------------|-----------------|-----------------|-------------------|-----------------|----------------|------------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| MHE 2063-6,41  |                  |                  |                 | 4,48            |                   |                 |                |                  |                   |                 |                 |                   |                 |                 |                 |                 |                 |
| MHE 2063-7,78  |                  |                  |                 | 3,77            |                   |                 |                |                  |                   |                 |                 |                   |                 |                 |                 |                 |                 |
| MHE 2063-10,1  |                  |                  | 4,31            | 3,16            |                   |                 |                |                  |                   |                 |                 |                   |                 |                 |                 |                 |                 |
| MHE 2063-13,3  |                  |                  | 3,29            | 2,41            |                   |                 |                |                  |                   |                 |                 |                   |                 |                 |                 |                 |                 |
| MHE 2063-16,9  |                  | 3,38             | 2,30            | 1,69            |                   |                 |                |                  |                   |                 |                 |                   |                 |                 |                 |                 |                 |
| MHE 2063-20,1  | 3,87             | 2,84             | 1,93            | 1,42            |                   |                 |                |                  |                   |                 |                 |                   |                 |                 |                 |                 |                 |
| MHE 2063-23,6  | 3,05             | 2,24             | 1,53            | 1,12            |                   |                 |                |                  |                   |                 |                 |                   |                 |                 |                 |                 |                 |
| MHE 2080-6,34  |                  |                  |                 |                 |                   |                 | 3,85           |                  |                   |                 |                 |                   |                 |                 |                 |                 |                 |
| MHE 2080-8,27  |                  |                  |                 |                 |                   | 4,06            | 3,05           |                  |                   |                 |                 |                   |                 |                 |                 |                 |                 |
| MHE 2080-9,86  |                  |                  |                 |                 |                   | 3,46            | 2,59           |                  |                   |                 |                 |                   |                 |                 |                 |                 |                 |
| MHE 2080-12,5  |                  |                  |                 |                 | 3,60              | 2,64            | 1,98           |                  |                   |                 |                 |                   |                 |                 |                 |                 |                 |
| MHE 2080-16,7  |                  |                  |                 | 3,66            | 2,50              | 1,83            | 1,37           |                  |                   |                 |                 |                   |                 |                 |                 |                 |                 |
| MHE 2080-19,6  |                  |                  |                 | 3,12            | 2,12              | 1,56            | 1,17           |                  |                   |                 |                 |                   |                 |                 |                 |                 |                 |
| MHE 2080-23,3  |                  |                  | 3,28            | 2,41            | 1,64              | 1,20            | 0,90           |                  |                   |                 |                 |                   |                 |                 |                 |                 |                 |
| MHE 2100-6,69  |                  |                  |                 |                 |                   |                 |                | 3,41             |                   |                 |                 |                   |                 |                 |                 |                 |                 |
| MHE 2100-7,97  |                  |                  |                 |                 |                   |                 |                | 3,19             |                   |                 |                 |                   |                 |                 |                 |                 |                 |
| MHE 2100-9,67  |                  |                  |                 |                 |                   |                 |                | 2,80             |                   |                 |                 |                   |                 |                 |                 |                 |                 |
| MHE 2100-12,9  |                  |                  |                 |                 |                   |                 | 3,85           | 2,80             | 2,05              |                 |                 |                   |                 |                 |                 |                 |                 |
| MHE 2100-16,0  |                  |                  |                 |                 |                   | 3,67            | 2,75           | 2,00             | 1,47              |                 |                 |                   |                 |                 |                 |                 |                 |
| MHE 2100-19,0  |                  |                  |                 |                 |                   | 3,09            | 2,32           | 1,69             | 1,24              |                 |                 |                   |                 |                 |                 |                 |                 |
| MHE 2100-23,9  |                  |                  |                 |                 | 3,05              | 2,24            | 1,68           | 1,22             | 0,90              |                 |                 |                   |                 |                 |                 |                 |                 |
| MHE 2125-6,42  |                  |                  |                 |                 |                   |                 |                |                  |                   |                 |                 | 2,89              | 2,43            |                 |                 |                 |                 |
| MHE 2125-7,79  |                  |                  |                 |                 |                   |                 |                |                  |                   |                 | 3,16            | 2,56              | 2,16            |                 |                 |                 |                 |
| MHE 2125-10,1  |                  |                  |                 |                 |                   |                 |                |                  |                   |                 | 2,62            | 2,12              | 1,79            |                 |                 |                 |                 |
| MHE 2125-12,6  |                  |                  |                 |                 |                   |                 |                |                  |                   | 2,87            | 2,11            | 1,71              | 1,44            |                 |                 |                 |                 |
| MHE 2125-16,2  |                  |                  |                 |                 |                   |                 |                | 3,03             | 2,07              | 1,52            | 1,23            | 1,03              |                 |                 |                 |                 |                 |
| MHE 2125-20,5  |                  |                  |                 |                 |                   |                 |                | 3,15             | 2,31              | 1,57            | 1,15            | 0,94              |                 |                 |                 |                 |                 |
| MHE 2125-23,4  |                  |                  |                 |                 |                   |                 |                | 2,53             | 1,85              | 1,26            | 0,93            |                   |                 |                 |                 |                 |                 |
| MHE 2140-9,70  |                  |                  |                 |                 |                   |                 |                |                  |                   |                 |                 | 2,96              | 2,49            |                 |                 |                 |                 |
| MHE 2140-12,0  |                  |                  |                 |                 |                   |                 |                |                  |                   |                 | 2,81            | 2,28              | 1,91            |                 |                 |                 |                 |
| MHE 2140-15,9  |                  |                  |                 |                 |                   |                 |                |                  |                   | 2,97            | 2,18            | 1,77              | 1,48            |                 |                 |                 |                 |
| MHE 2140-20,1  |                  |                  |                 |                 |                   |                 |                |                  | 3,15              | 2,15            | 1,58            | 1,28              | 1,08            |                 |                 |                 |                 |
| MHE 2140-24,6  |                  |                  |                 |                 |                   |                 |                |                  | 2,55              | 1,74            | 1,28            | 1,04              |                 |                 |                 |                 |                 |
| MHE 3140-25,5  |                  |                  |                 |                 |                   |                 |                |                  | 2,65              | 1,81            | 1,33            | 1,08              |                 |                 |                 |                 |                 |
| MHE 3140-30,9  |                  |                  |                 |                 |                   |                 |                | 3,03             | 2,22              | 1,52            | 1,11            | 0,90              |                 |                 |                 |                 |                 |
| MHE 3140-40,3  |                  |                  |                 |                 |                   |                 | 3,26           | 2,37             | 1,74              | 1,18            |                 |                   |                 |                 |                 |                 |                 |
| MHE 3140-50,0  |                  |                  |                 |                 |                   | 3,50            | 2,63           | 1,91             | 1,40              | 0,96            |                 |                   |                 |                 |                 |                 |                 |
| MHE 3140-66,2  |                  |                  |                 |                 | 3,50              | 2,56            | 1,92           | 1,40             | 1,03              |                 |                 |                   |                 |                 |                 |                 |                 |
| MHE 3140-78,5  |                  |                  |                 |                 | 2,95              | 2,16            | 1,62           | 1,18             |                   |                 |                 |                   |                 |                 |                 |                 |                 |
| MHE 3140-98,8  |                  |                  |                 |                 | 2,31              | 1,69            | 1,27           | 0,92             |                   |                 |                 |                   |                 |                 |                 |                 |                 |
| MHE 3140-109   |                  |                  |                 |                 | 2,10              | 1,54            | 1,15           |                  |                   |                 |                 |                   |                 |                 |                 |                 |                 |
| MHE 3140-133   |                  |                  |                 |                 | 1,71              | 1,25            | 0,94           |                  |                   |                 |                 |                   |                 |                 |                 |                 |                 |
| MHE 2160-6,35  |                  |                  |                 |                 |                   |                 |                |                  |                   |                 |                 |                   |                 |                 | 3,11            | 2,56            |                 |
| MHE 2160-8,27  |                  |                  |                 |                 |                   |                 |                |                  |                   |                 |                 |                   |                 | 3,21            | 2,60            | 2,14            |                 |
| MHE 2160-10,2  |                  |                  |                 |                 |                   |                 |                |                  |                   |                 |                 |                   |                 | 2,71            | 2,20            | 1,81            |                 |
| MHE 2160-13,2  |                  |                  |                 |                 |                   |                 |                |                  |                   |                 |                 | 3,45              | 2,90            | 2,13            | 1,73            | 1,42            |                 |
| MHE 2160-17,0  |                  |                  |                 |                 |                   |                 |                |                  |                   |                 |                 | 2,48              | 2,08            | 1,53            | 1,24            | 1,02            |                 |
| MHE 2160-19,4  |                  |                  |                 |                 |                   |                 |                |                  |                   |                 |                 | 2,16              | 1,82            | 1,33            | 1,08            |                 |                 |
| MHE 2160-23,8  |                  |                  |                 |                 |                   |                 |                |                  |                   | 2,76            | 2,02            | 1,64              | 1,38            | 1,01            |                 |                 |                 |
| MHE 3160-24,0  |                  |                  |                 |                 |                   |                 |                |                  |                   | 3,13            | 2,29            | 1,86              | 1,56            | 1,15            | 0,93            |                 |                 |
| MHE 3160-31,3  |                  |                  |                 |                 |                   |                 |                |                  |                   | 2,50            | 1,83            | 1,49              | 1,25            | 0,92            |                 |                 |                 |
| MHE 3160-36,6  |                  |                  |                 |                 |                   |                 |                |                  | 3,13              | 2,13            | 1,56            | 1,27              | 1,07            |                 |                 |                 |                 |
| MHE 3160-47,4  |                  |                  |                 |                 |                   |                 |                | 3,35             | 2,46              | 1,67            | 1,23            | 1,00              |                 |                 |                 |                 |                 |
| MHE 3160-61,1  |                  |                  |                 |                 |                   |                 |                | 2,48             | 1,82              | 1,24            | 0,91            |                   |                 |                 |                 |                 |                 |
| MHE 3160-82,2  |                  |                  |                 |                 |                   | 3,37            | 2,53           | 1,84             | 1,35              | 0,92            |                 |                   |                 |                 |                 |                 |                 |
| MHE 3160-94,0  |                  |                  |                 |                 |                   | 2,95            | 2,21           | 1,61             | 1,18              |                 |                 |                   |                 |                 |                 |                 |                 |
| MHE 3160-107   |                  |                  |                 |                 | 3,49              | 2,56            | 1,92           | 1,40             | 1,02              |                 |                 |                   |                 |                 |                 |                 |                 |
| MHE 3160-132   |                  |                  |                 |                 | 2,64              | 1,94            | 1,45           | 1,06             |                   |                 |                 |                   |                 |                 |                 |                 |                 |
| MHE 2180-9,87  |                  |                  |                 |                 |                   |                 |                |                  |                   |                 |                 |                   |                 | 3,63            | 2,94            | 2,42            | 1,98            |
| MHE 2180-12,8  |                  |                  |                 |                 |                   |                 |                |                  |                   |                 |                 |                   |                 | 2,84            | 2,30            | 1,89            | 1,55            |
| MHE 2180-17,0  |                  |                  |                 |                 |                   |                 |                |                  |                   |                 |                 |                   |                 | 2,17            | 1,76            | 1,45            | 1,18            |
| MHE 2180-19,4  |                  |                  |                 |                 |                   |                 |                |                  |                   |                 |                 | 3,08              | 2,59            | 1,90            | 1,54            | 1,27            | 1,04            |
| MHE 2180-23,3  |                  |                  |                 |                 |                   |                 |                |                  |                   |                 |                 | 2,63              | 2,21            | 1,62            | 1,32            | 1,08            |                 |
| MHE 3180-23,4  |                  |                  |                 |                 |                   |                 |                |                  |                   |                 |                 | 2,54              | 2,14            | 1,57            | 1,27            | 1,04            |                 |
| MHE 3180-30,3  |                  |                  |                 |                 |                   |                 |                |                  |                   | 3,43            | 2,52            | 2,04              | 1,72            | 1,26            | 1,02            |                 |                 |
| MHE 3180-35,5  |                  |                  |                 |                 |                   |                 |                |                  |                   | 2,93            | 2,15            | 1,74              | 1,46            | 1,07            |                 |                 |                 |
| MHE 3180-45,9  |                  |                  |                 |                 |                   |                 |                | 3,40             | 2,32              | 2,32            | 1,70            | 1,38              | 1,16            |                 |                 |                 |                 |
| MHE 3180-61,2  |                  |                  |                 |                 |                   |                 |                | 3,49             | 2,56              | 1,74            | 1,28            | 1,04              |                 |                 |                 |                 |                 |
| MHE 3180-82,4  |                  |                  |                 |                 |                   |                 |                | 2,59             | 1,90              | 1,29            | 0,95            |                   |                 |                 |                 |                 |                 |
| MHE 3180-94,2  |                  |                  |                 |                 |                   |                 |                | 2,22             | 1,63              | 1,11            |                 |                   |                 |                 |                 |                 |                 |
| MHE 3180-108   |                  |                  |                 |                 |                   |                 | 2,70           | 1,97             | 1,44              | 0,98            |                 |                   |                 |                 |                 |                 |                 |
| MHE 3180-129,5 |                  |                  |                 |                 |                   | 2,85            | 2,14           | 1,55             | 1,14              |                 |                 |                   |                 |                 |                 |                 |                 |

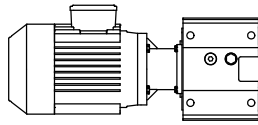
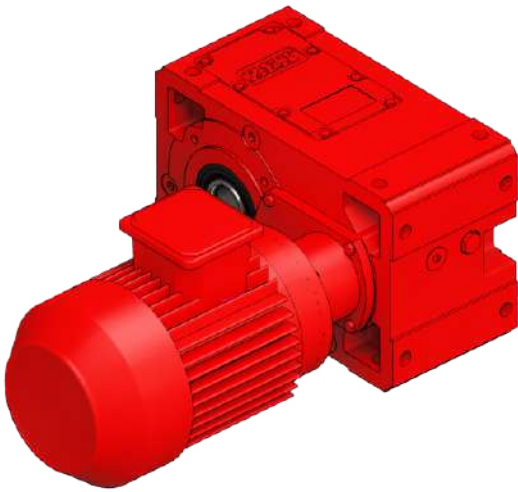
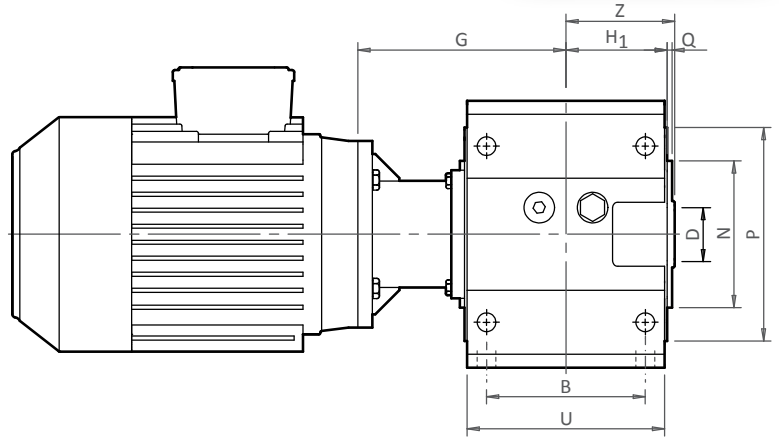
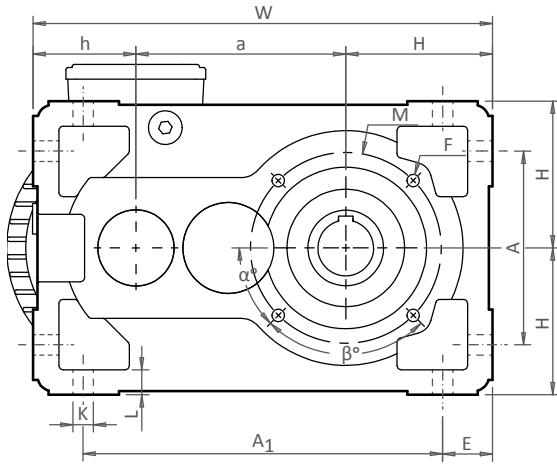


## MHE IEC Bağlantı Kombinasyonları / IEC Combinations

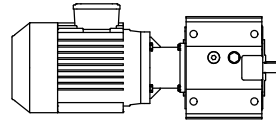
|                | 5,50 kW<br>132 S4 | 7,5 kW<br>132 M4 | 11 kW<br>160 M4 | 15 kW<br>160 L4 | 18,5 kW<br>180 M4 | 22 kW<br>180 L4 | 30 kW<br>200 L4 | 37 kW<br>225 S4 | 45 kW<br>225 M4 | 55kW<br>250 M4 | 75 kW<br>280 S4 | 90 kW<br>280 M4 | 110 kW<br>315 S4 | 132 kW<br>315 M4 | 160 kW<br>315 M4 | 185 kW<br>315 LA4 | 200 kW<br>315 LB4 |
|----------------|-------------------|------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-----------------|-----------------|----------------|-----------------|-----------------|------------------|------------------|------------------|-------------------|-------------------|
| MHE 2200-6,43  |                   |                  |                 |                 |                   |                 |                 |                 |                 |                | 3,17            | 2,64            |                  |                  |                  |                   |                   |
| MHE 2200-7,92  |                   |                  |                 |                 |                   |                 |                 |                 |                 |                | 2,83            | 2,36            |                  |                  |                  |                   |                   |
| MHE 2200-10,1  |                   |                  |                 |                 |                   |                 |                 |                 |                 | 3,15           | 2,31            | 1,93            |                  |                  |                  |                   |                   |
| MHE 2200-13,1  |                   |                  |                 |                 |                   |                 |                 |                 | 2,98            | 2,44           | 1,79            | 1,49            |                  |                  |                  |                   |                   |
| MHE 2200-16,9  |                   |                  |                 |                 |                   |                 |                 | 2,71            | 2,23            | 1,82           | 1,34            | 1,12            |                  |                  |                  |                   |                   |
| MHE 2200-19,6  |                   |                  |                 |                 |                   |                 | 2,72            | 2,21            | 1,81            | 1,48           | 1,09            |                 |                  |                  |                  |                   |                   |
| MHE 2200-23,4  |                   |                  |                 |                 |                   |                 | 2,12            | 1,72            | 1,41            | 1,16           |                 |                 |                  |                  |                  |                   |                   |
| MHE 3200-26,1  |                   |                  |                 |                 |                   | 3,11            | 2,28            | 1,85            | 1,52            | 1,25           | 0,91            |                 |                  |                  |                  |                   |                   |
| MHE 3200-32,2  |                   |                  |                 |                 | 3,14              | 2,64            | 1,94            | 1,57            | 1,29            | 1,06           |                 |                 |                  |                  |                  |                   |                   |
| MHE 3200-41,9  |                   |                  |                 | 2,98            | 2,41              | 2,03            | 1,49            | 1,21            | 0,99            |                |                 |                 |                  |                  |                  |                   |                   |
| MHE 3200-54,0  |                   |                  | 2,95            | 2,16            | 1,75              | 1,47            | 1,08            |                 |                 |                |                 |                 |                  |                  |                  |                   |                   |
| MHE 3200-69,8  |                   |                  | 2,33            | 1,71            | 1,39              | 1,17            |                 |                 |                 |                |                 |                 |                  |                  |                  |                   |                   |
| MHE 3200-85,6  |                   | 2,79             | 1,90            | 1,40            | 1,13              | 0,95            |                 |                 |                 |                |                 |                 |                  |                  |                  |                   |                   |
| MHE 3200-99,6  | 3,20              | 2,35             | 1,60            | 1,17            | 0,95              |                 |                 |                 |                 |                |                 |                 |                  |                  |                  |                   |                   |
| MHE 3200-104   | 2,91              | 2,13             | 1,45            | 1,07            |                   |                 |                 |                 |                 |                |                 |                 |                  |                  |                  |                   |                   |
| MHE 3200-125   | 2,28              | 1,67             | 1,14            |                 |                   |                 |                 |                 |                 |                |                 |                 |                  |                  |                  |                   |                   |
| MHE 2225-9,68  |                   |                  |                 |                 |                   |                 |                 |                 |                 |                | 3,41            | 2,84            |                  |                  |                  |                   |                   |
| MHE 2225-12,5  |                   |                  |                 |                 |                   |                 |                 |                 |                 |                | 2,61            | 2,17            |                  |                  |                  |                   |                   |
| MHE 2225-16,9  |                   |                  |                 |                 |                   |                 |                 |                 |                 | 2,48           | 1,82            | 1,52            |                  |                  |                  |                   |                   |
| MHE 2225-19,7  |                   |                  |                 |                 |                   |                 |                 | 3,14            | 2,58            | 2,11           | 1,55            | 1,29            |                  |                  |                  |                   |                   |
| MHE 2225-23,8  |                   |                  |                 |                 |                   |                 | 2,94            | 2,39            | 1,96            | 1,61           | 1,18            | 0,98            |                  |                  |                  |                   |                   |
| MHE 3225-25,0  |                   |                  |                 |                 |                   |                 | 3,10            | 2,51            | 2,06            | 1,69           | 1,24            | 1,03            |                  |                  |                  |                   |                   |
| MHE 3225-30,7  |                   |                  |                 |                 |                   |                 | 2,85            | 2,31            | 1,90            | 1,55           | 1,14            | 0,95            |                  |                  |                  |                   |                   |
| MHE 3225-40,0  |                   |                  |                 |                 |                   | 2,99            | 2,19            | 1,78            | 1,46            | 1,19           |                 |                 |                  |                  |                  |                   |                   |
| MHE 3225-51,6  |                   |                  |                 |                 | 2,58              | 2,17            | 1,59            | 1,29            | 1,06            |                |                 |                 |                  |                  |                  |                   |                   |
| MHE 3225-69,9  |                   |                  | 3,27            | 2,40            | 1,95              | 1,64            | 1,20            | 0,97            |                 |                |                 |                 |                  |                  |                  |                   |                   |
| MHE 3225-85,8  |                   |                  | 2,67            | 1,96            | 1,59              | 1,33            | 0,98            |                 |                 |                |                 |                 |                  |                  |                  |                   |                   |
| MHE 3225-99,8  |                   | 3,28             | 2,23            | 1,64            | 1,33              | 1,12            |                 |                 |                 |                |                 |                 |                  |                  |                  |                   |                   |
| MHE 3225-105   |                   | 3,12             | 2,12            | 1,56            | 1,26              | 1,06            |                 |                 |                 |                |                 |                 |                  |                  |                  |                   |                   |
| MHE 3225-127   | 3,00              | 2,20             | 1,50            | 1,10            | 0,89              |                 |                 |                 |                 |                |                 |                 |                  |                  |                  |                   |                   |
| MHE 2250-6,31  |                   |                  |                 |                 |                   |                 |                 |                 |                 |                |                 |                 |                  |                  | 3,38             | 2,92              | 2,70              |
| MHE 2250-8,08  |                   |                  |                 |                 |                   |                 |                 |                 |                 |                |                 |                 |                  | 3,29             | 2,72             | 2,35              | 2,17              |
| MHE 2250-9,96  |                   |                  |                 |                 |                   |                 |                 |                 |                 |                |                 |                 | 3,46             | 2,89             | 2,38             | 2,06              | 1,90              |
| MHE 2250-12,9  |                   |                  |                 |                 |                   |                 |                 |                 |                 |                | 4,07            | 3,39            | 2,77             | 2,31             | 1,91             | 1,65              | 1,53              |
| MHE 2250-16,8  |                   |                  |                 |                 |                   |                 |                 |                 |                 |                | 3,03            | 2,53            | 2,07             | 1,72             | 1,42             | 1,23              | 1,14              |
| MHE 2250-20,0  |                   |                  |                 |                 |                   |                 |                 |                 |                 | 3,46           | 2,54            | 2,12            | 1,73             | 1,44             | 1,19             | 1,03              | 0,95              |
| MHE 2250-25,0  |                   |                  |                 |                 |                   |                 | 3,82            | 3,10            | 2,55            | 2,08           | 1,53            | 1,27            | 1,04             |                  |                  |                   |                   |
| MHE 3250-30,6  |                   |                  |                 |                 |                   |                 | 4,40            | 3,57            | 2,93            | 2,40           | 1,76            | 1,47            | 1,20             |                  |                  |                   |                   |
| MHE 3250-40,6  |                   |                  |                 |                 |                   |                 | 3,30            | 2,67            | 2,20            | 1,80           | 1,32            | 1,10            |                  |                  |                  |                   |                   |
| MHE 3250-52,4  |                   |                  |                 |                 | 4,26              | 3,59            | 2,63            | 2,13            | 1,75            | 1,43           | 1,05            |                 |                  |                  |                  |                   |                   |
| MHE 3250-68,5  |                   |                  |                 | 3,66            | 2,97              | 2,50            | 1,83            | 1,49            | 1,22            | 1,00           |                 |                 |                  |                  |                  |                   |                   |
| MHE 3250-84,0  |                   |                  |                 | 3,07            | 2,49              | 2,09            | 1,53            | 1,24            | 1,02            |                |                 |                 |                  |                  |                  |                   |                   |
| MHE 3250-100   |                   |                  | 3,64            | 2,67            | 2,16              | 1,82            | 1,33            | 1,08            |                 |                |                 |                 |                  |                  |                  |                   |                   |
| MHE 3250-125   |                   | 3,21             | 2,19            | 1,60            | 1,30              | 1,09            |                 |                 |                 |                |                 |                 |                  |                  |                  |                   |                   |
| MHE 2280-6,32  |                   |                  |                 |                 |                   |                 |                 |                 |                 |                |                 |                 |                  |                  |                  | 3,28              | 3,04              |
| MHE 2280-8,08  |                   |                  |                 |                 |                   |                 |                 |                 |                 |                |                 |                 |                  |                  | 3,00             | 2,60              | 2,40              |
| MHE 2280-10,2  |                   |                  |                 |                 |                   |                 |                 |                 |                 |                |                 |                 |                  | 3,45             | 2,85             | 2,46              | 2,28              |
| MHE 2280-13,2  |                   |                  |                 |                 |                   |                 |                 |                 |                 |                |                 |                 | 3,18             | 2,65             | 2,19             | 1,89              | 1,75              |
| MHE 2280-16,8  |                   |                  |                 |                 |                   |                 |                 |                 |                 |                |                 | 3,34            | 2,73             | 2,27             | 1,88             | 1,62              | 1,50              |
| MHE 2280-20,0  |                   |                  |                 |                 |                   |                 |                 |                 |                 |                | 3,37            | 2,81            | 2,30             | 1,91             | 1,58             | 1,37              | 1,26              |
| MHE 2280-24,9  |                   |                  |                 |                 |                   |                 |                 |                 |                 | 3,13           | 2,30            | 1,92            | 1,57             | 1,31             | 1,08             |                   |                   |
| MHE 3280-31,4  |                   |                  |                 |                 |                   |                 |                 | 3,59            | 2,94            | 2,15           | 1,79            | 1,47            | 1,22             | 1,01             |                  |                   |                   |
| MHE 3280-41,6  |                   |                  |                 |                 |                   |                 |                 | 3,32            | 2,73            | 2,23           | 1,64            | 1,37            | 1,12             |                  |                  |                   |                   |
| MHE 3280-53,7  |                   |                  |                 |                 |                   |                 | 3,41            | 2,76            | 2,27            | 1,86           | 1,36            | 1,14            |                  |                  |                  |                   |                   |
| MHE 3280-68,5  |                   |                  |                 |                 |                   | 3,46            | 2,54            | 2,06            | 1,69            | 1,38           | 1,02            |                 |                  |                  |                  |                   |                   |
| MHE 3280-84,0  |                   |                  |                 |                 | 3,46              | 2,91            | 2,13            | 1,73            | 1,42            | 1,16           |                 |                 |                  |                  |                  |                   |                   |
| MHE 3280-100   |                   |                  |                 |                 | 2,88              | 2,42            | 1,78            | 1,44            | 1,18            |                |                 |                 |                  |                  |                  |                   |                   |
| MHE 3280-125   |                   |                  | 3,31            | 2,43            | 1,97              | 1,65            | 1,21            |                 |                 |                |                 |                 |                  |                  |                  |                   |                   |
| MHE 2320-6,42  |                   |                  |                 |                 |                   |                 |                 |                 |                 |                |                 |                 |                  |                  |                  |                   | 4,46              |
| MHE 2320-7,92  |                   |                  |                 |                 |                   |                 |                 |                 |                 |                |                 |                 |                  |                  |                  |                   | 4,03              |
| MHE 2320-9,66  |                   |                  |                 |                 |                   |                 |                 |                 |                 |                |                 |                 |                  |                  |                  |                   | 3,44              |
| MHE 2320-12,6  |                   |                  |                 |                 |                   |                 |                 |                 |                 |                |                 |                 |                  |                  | 3,34             | 2,89              | 2,67              |
| MHE 2320-16,5  |                   |                  |                 |                 |                   |                 |                 |                 |                 |                |                 |                 |                  | 3,16             | 2,60             | 2,25              | 2,08              |
| MHE 2320-20,7  |                   |                  |                 |                 |                   |                 |                 |                 |                 |                |                 |                 | 2,92             | 2,44             | 2,01             | 1,74              | 1,61              |
| MHE 2320-25,05 |                   |                  |                 |                 |                   |                 |                 |                 |                 |                | 3,22            | 2,68            | 2,19             | 1,83             | 1,51             | 1,30              | 1,21              |
| MHE 3320-29,7  |                   |                  |                 |                 |                   |                 |                 |                 |                 |                | 3,32            | 2,76            | 2,26             | 1,89             | 1,56             | 1,35              | 1,24              |
| MHE 3320-39,5  |                   |                  |                 |                 |                   |                 |                 |                 |                 | 3,47           | 2,54            | 2,12            | 1,73             | 1,45             | 1,19             | 1,03              |                   |
| MHE 3320-51,6  |                   |                  |                 |                 |                   |                 |                 | 3,25            | 2,66            | 1,95           | 1,62            | 1,33            | 1,11             |                  |                  |                   |                   |
| MHE 3320-67,6  |                   |                  |                 |                 |                   |                 |                 | 3,01            | 2,48            | 2,03           | 1,49            | 1,24            | 1,01             |                  |                  |                   |                   |
| MHE 3320-81,3  |                   |                  |                 |                 |                   |                 | 3,09            | 2,51            | 2,06            | 1,69           | 1,24            | 1,03            |                  |                  |                  |                   |                   |
| MHE 3320-101   |                   |                  |                 |                 |                   | 3,32            | 2,43            | 1,97            | 1,62            | 1,33           |                 |                 |                  |                  |                  |                   |                   |
| MHE 3320-123   |                   |                  | 3,49            | 2,83            |                   | 2,38            | 1,75            | 1,42            | 1,16            |                |                 |                 |                  |                  |                  |                   |                   |
| MHE 2360-9,70  |                   |                  |                 |                 |                   |                 |                 |                 |                 |                |                 |                 |                  |                  |                  |                   | 5,05              |
| MHE 2360-12,8  |                   |                  |                 |                 |                   |                 |                 |                 |                 |                |                 |                 |                  |                  |                  |                   | 3,90              |
| MHE 2360-17,0  |                   |                  |                 |                 |                   |                 |                 |                 |                 |                |                 |                 |                  |                  |                  | 3,11              | 2,88              |
| MHE 2360-21,2  |                   |                  |                 |                 |                   |                 |                 |                 |                 |                |                 |                 |                  |                  | 3,02             | 2,61              | 2,42              |
| MHE 2360-24,7  |                   |                  |                 |                 |                   |                 |                 |                 |                 |                |                 |                 | 3,34             | 2,78             | 2,30             | 1,99              | 1,84              |
| MHE 3360-29,8  |                   |                  |                 |                 |                   |                 |                 |                 |                 |                |                 |                 | 3,24             | 2,70             | 2,23             | 1,93              | 1,78              |
| MHE 3360-39,7  |                   |                  |                 |                 |                   |                 |                 |                 |                 |                |                 | 3,03            | 2,48             | 2,07             | 1,70             | 1,47              | 1,36              |
| MHE 3360-51,8  |                   |                  |                 |                 |                   |                 |                 |                 |                 |                | 2,83            | 2,36            | 1,93             | 1,61             | 1,33             | 1,15              | 1,06              |
| MHE 3360-69,4  |                   |                  |                 |                 |                   |                 |                 |                 |                 | 2,90           | 2,12            | 1,77            | 1,45             | 1,21             | 1,00             |                   |                   |
| MHE 3360-83,5  |                   |                  |                 |                 |                   |                 |                 |                 | 2,94            | 2,40           | 1,76            | 1,47            | 1,20             | 1,00             |                  |                   |                   |
| MHE 3360-104   |                   |                  |                 |                 |                   |                 | 3,48            | 2,82            | 2,32            | 1,90           | 1,39            | 1,16            |                  |                  |                  |                   |                   |
| MHE 3360-122   |                   |                  |                 |                 |                   |                 | 2,57            | 2,09            | 1,71            | 1,40           | 1,03            |                 |                  |                  |                  |                   |                   |



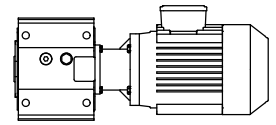
## MHE 2063 - 2100 Ölçü Tabloları / Dimension Tables



A



D



L

| Gövde Büyüklüğü<br>Size | a   | A   | A <sub>1</sub> | B   | D<br>[H7] | E  | F        | H<br>[h10] | H <sub>1</sub><br>[H11] | h<br>[h10] | K  | L  | M   | N<br>[h6] | P   |
|-------------------------|-----|-----|----------------|-----|-----------|----|----------|------------|-------------------------|------------|----|----|-----|-----------|-----|
| 2063                    | 113 | 102 | 197            | 100 | 30        | 29 | 4xM8↓16  | 80         | 64                      | 62         | 12 | 14 | 100 | 80        | 120 |
| 2080                    | 143 | 132 | 245            | 119 | 38        | 34 | 4xM10↓18 | 100        | 76                      | 70         | 14 | 17 | 130 | 110       | 160 |
| 2100                    | 180 | 172 | 307            | 144 | 48        | 39 | 4xM12↓24 | 125        | 91                      | 80         | 18 | 20 | 165 | 130       | 200 |

| Gövde<br>Büyüklüğü<br>Size | Q | U   | α° | β° | W<br>[h10] | Z  | G      |        |        |        |             |        |         |        | Ağırlık<br>Weight<br>[kg] |
|----------------------------|---|-----|----|----|------------|----|--------|--------|--------|--------|-------------|--------|---------|--------|---------------------------|
|                            |   |     |    |    |            |    | 80 B14 |        | 90 B14 |        | 100/112 B14 |        | 132 B14 |        |                           |
|                            |   |     |    |    |            |    | i < 11 | i > 11 | i < 11 | i > 11 | i < 11      | i > 11 | i < 11  | i > 11 |                           |
| 2063                       | 3 | 124 | 45 | 90 | 255        | 68 | -      | 145    | 165    | 155    | -           | -      | -       | -      | 20                        |
| 2080                       | 4 | 148 | 45 | 90 | 313        | 82 | -      | -      | -      | 178    | 198         | 188    | -       | -      | 35                        |
| 2100                       | 4 | 178 | 45 | 90 | 385        | 97 | -      | -      | -      | -      | 223         | 213    | 243     | 233    | 67                        |

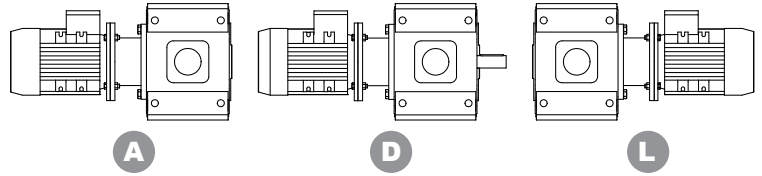
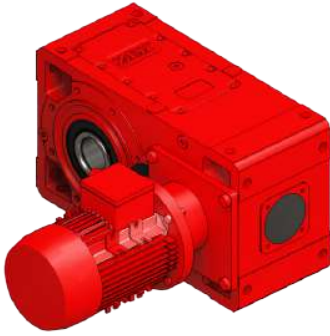
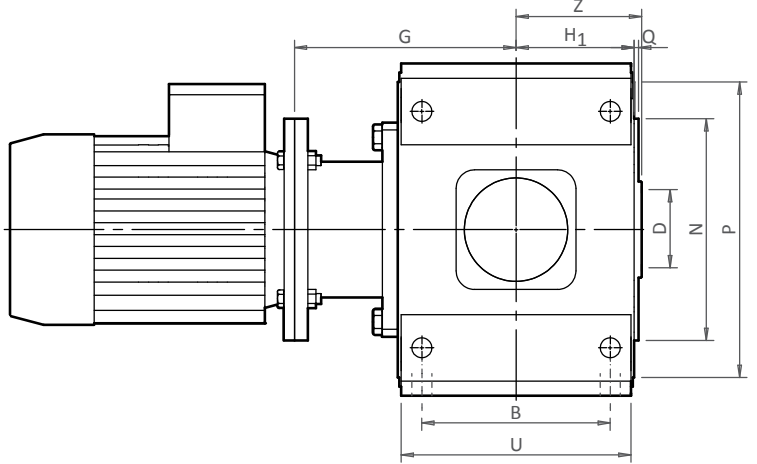
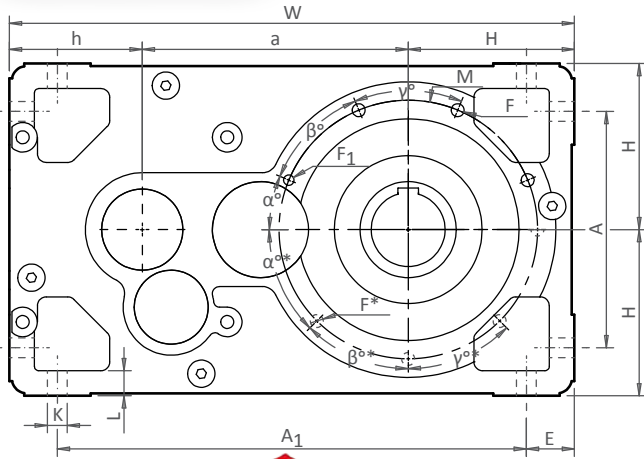
## Montaj Pozisyonları ve Yağlama Miktarı [l] / Mounting Position and Lubrication [l]

| Gövde Büyüklüğü<br>Size | M3                                                                                  | M4                                                                                  | M5                                                                                  | M6                                                                                   | M7                                                                                    | M8                                                                                    |
|-------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 2063                    |  |  |  |  |  |  |
| 2063                    | 1                                                                                   | 1                                                                                   | 1,3                                                                                 | 1,5                                                                                  | 1,3                                                                                   | 1,3                                                                                   |
| 2080                    | 1,7                                                                                 | 1,7                                                                                 | 2,6                                                                                 | 3                                                                                    | 2,6                                                                                   | 2,6                                                                                   |
| 2100                    | 3,2                                                                                 | 3,2                                                                                 | 4,9                                                                                 | 5,8                                                                                  | 4,9                                                                                   | 4,9                                                                                   |





**MHE 2125 - 2360 Ölçü Tabloları / Dimension Tables**



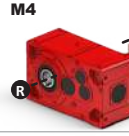
| Gövde<br>Büyüküğü<br>Size | a   | A   | A <sub>1</sub> | B   | D<br>[H7] | E   | F         | F <sub>1</sub> | H<br>[h10] | H <sub>1</sub><br>[H11] | h<br>[h10] | K  | L  | M   | N<br>[h6] | P   | Q  | U   | α°   | β°   | γ°  | W<br>[h10] |
|---------------------------|-----|-----|----------------|-----|-----------|-----|-----------|----------------|------------|-------------------------|------------|----|----|-----|-----------|-----|----|-----|------|------|-----|------------|
| 2125                      | 225 | 212 | 387            | 168 | 60        | 44  | 7xM12↓24* | -              | 150        | 107                     | 100        | 18 | 23 | 215 | 180       | 250 | 4  | 207 | 45°  | 45°  | 45° | 475        |
| 2140                      | 240 | 212 | 427            | 168 | 70        | 44  | 6xM14↓30  | 2xM12↓30       | 150        | 107                     | 125        | 18 | 23 | 265 | 230       | 300 | 4  | 205 | 23,5 | 44   | 45  | 515        |
| 2160                      | 285 | 252 | 507            | 220 | 80        | 54  | 6xM16↓32  | 2xM12↓32       | 180        | 136                     | 150        | 22 | 28 | 265 | 230       | 300 | 5  | 264 | 25   | 42,5 | 45  | 615        |
| 2180                      | 305 | 252 | 527            | 220 | 90        | 54  | 8xM16↓32  | -              | 180        | 136                     | 150        | 22 | 28 | 300 | 250       | 350 | 10 | 264 | 22,5 | 45   | 45  | 635        |
| 2200                      | 360 | 320 | 635            | 255 | 100       | 65  | 6xM20↓40  | 2xM16↓40       | 225        | 160                     | 180        | 27 | 34 | 350 | 300       | 400 | 6  | 311 | 22,5 | 45   | 45  | 765        |
| 2225                      | 385 | 320 | 660            | 255 | 110       | 65  | 6xM20↓42  | 2xM16↓42       | 225        | 160                     | 180        | 27 | 34 | 400 | 350       | 450 | 6  | 311 | 22,5 | 45   | 45  | 790        |
| 2250                      | 450 | 396 | 791            | 310 | 125       | 82  | 6xM24↓60  | 2xM20↓60       | 280        | 195                     | 225        | 33 | 42 | 500 | 450       | 550 | 22 | 380 | 25,5 | 42   | 45  | 955        |
| 2280                      | 480 | 396 | 821            | 330 | 140       | 82  | 6xM24↓60  | 2xM18↓60       | 280        | 205                     | 225        | 33 | 42 | 500 | 450       | 550 | 22 | 400 | 22,5 | 45   | 45  | 985        |
| 2320                      | 570 | 510 | 1005           | 406 | 160       | 100 | 8xM30↓60  | -              | 355        | 251                     | 280        | 39 | 52 | 600 | 550       | 660 | 20 | 490 | 30   | 37,5 | 45  | 1205       |
| 2360                      | 610 | 510 | 1045           | 421 | 180       | 100 | 8xM30↓60  | -              | 355        | 261                     | 280        | 39 | 52 | 600 | 550       | 660 | 20 | 505 | 30   | 37,5 | 45  | 1245       |

| Gövde<br>Büyüklüğü<br>Size | Z   | G      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | Ağırlık<br>Weight<br>[kg] |
|----------------------------|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------------------|
|                            |     | 132 B5 |        | 160 B5 |        | 180 B5 |        | 200 B5 |        | 225 B5 |        | 250 B5 |        | 280 B5 |        | 315 B5 |        |                           |
|                            |     | i < 11 | i > 11 | i < 11 | i > 11 | i < 11 | i > 11 | i < 11 | i > 11 | i < 11 | i > 11 | i < 11 | i > 11 | i < 11 | i > 11 | i < 11 | i > 11 |                           |
| 2125                       | 113 | -      | 271    | 326    | 306    | 326    | 306    | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | 114                       |
| 2140                       | 114 | -      | 271    | -      | 307    | 327    | 307    | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | 145                       |
| 2160                       | 145 | -      | -      | -      | 355    | -      | 355    | 391    | 361    | 421    | 391    | -      | -      | -      | -      | -      | -      | 250                       |
| 2180                       | 150 | -      | -      | -      | -      | -      | 355    | 391    | 361    | 421    | 391    | 417    | 387    | -      | -      | -      | -      | 255                       |
| 2200                       | 170 | -      | -      | -      | -      | -      | -      | -      | 409    | -      | 439    | 443    | 443    | 443    | 443    | -      | -      | 410                       |
| 2225                       | 170 | -      | -      | -      | -      | -      | -      | -      | 409    | -      | 439    | -      | 443    | 443    | 443    | -      | -      | 445                       |
| 2250                       | 222 | -      | -      | -      | -      | -      | -      | -      | 490    | -      | 520    | -      | 495    | -      | 495    | 526    | 526    | 761                       |
| 2280                       | 232 | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | 495    | -      | 495    | 526    | 526    | 845                       |
| 2320                       | 276 | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | 538    | 639    | 571    | 1450                      |
| 2360                       | 286 | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | 547    | 579    | 579    | 1640                      |

\* 125 gövde flanş geometrisidir.

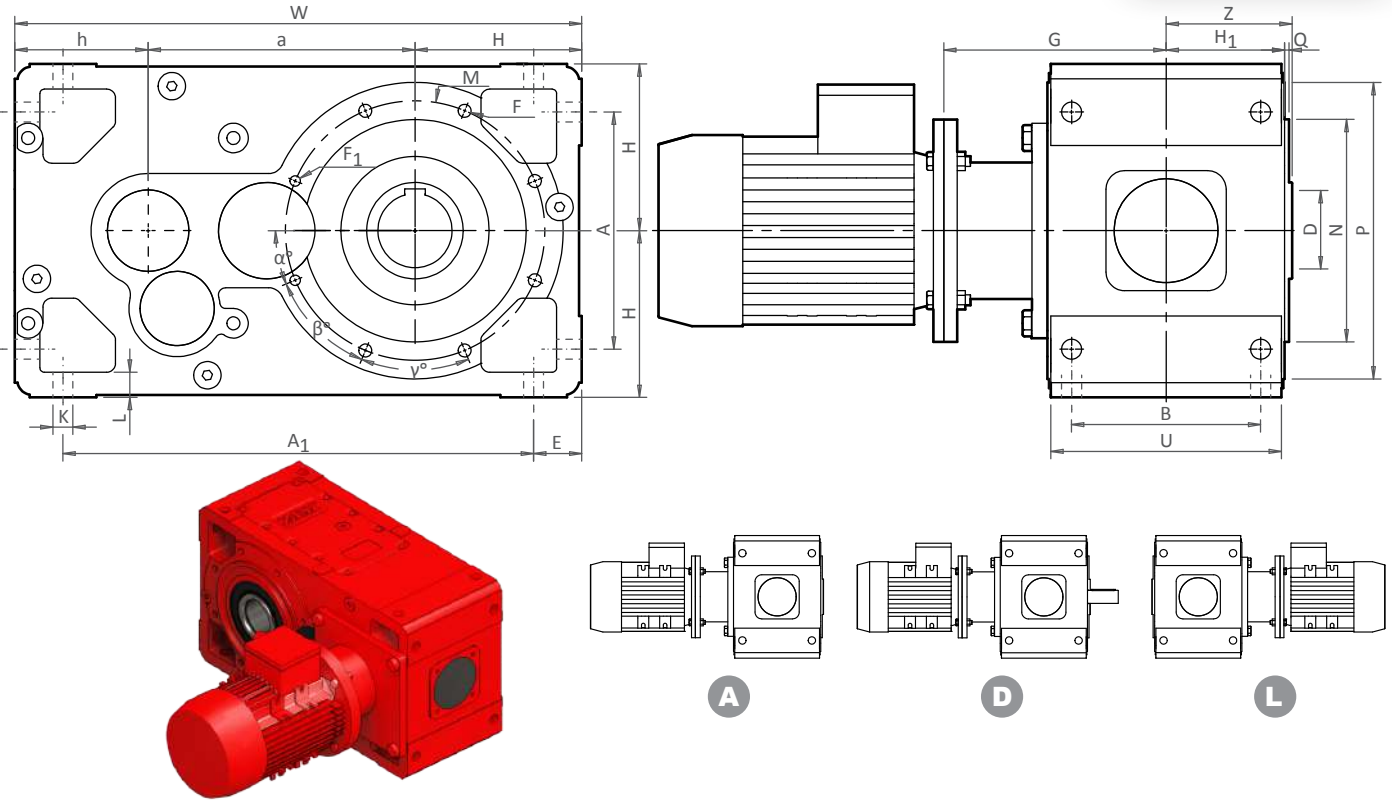
\* Flange geometry of size 125

**Montaj Pozisyonları ve Yağlama Miktarı [l] / Mounting Position and Lubrication [l]**

| Gövde<br>Büyüküğü<br>Size | M3                                                                                  | M4                                                                                  | M5                                                                                  | M6                                                                                   | M7                                                                                    | M8                                                                                    |
|---------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 2125                      |  |  |  |  |  |  |
| 2140                      | 5,8                                                                                 | 5,8                                                                                 | 8,3                                                                                 | 9,8                                                                                  | 8,3                                                                                   | 8,3                                                                                   |
| 2160                      | 6,2                                                                                 | 6,2                                                                                 | 9,7                                                                                 | 11                                                                                   | 9,7                                                                                   | 9,7                                                                                   |
| 2180                      | 10,7                                                                                | 10,7                                                                                | 17                                                                                  | 19,1                                                                                 | 17                                                                                    | 17                                                                                    |
| 2200                      | 11,4                                                                                | 11,4                                                                                | 18,2                                                                                | 20,2                                                                                 | 18,2                                                                                  | 18,2                                                                                  |
| 2225                      | 19,3                                                                                | 19,3                                                                                | 30,4                                                                                | 34,5                                                                                 | 30,4                                                                                  | 30,4                                                                                  |
| 2250                      | 20,3                                                                                | 20,3                                                                                | 32,5                                                                                | 36,5                                                                                 | 32,5                                                                                  | 32,5                                                                                  |
| 2280                      | 36                                                                                  | 36                                                                                  | 56                                                                                  | 63                                                                                   | 56                                                                                    | 56                                                                                    |
| 2320                      | 40                                                                                  | 40                                                                                  | 64                                                                                  | 71                                                                                   | 64                                                                                    | 64                                                                                    |
| 2360                      | 70                                                                                  | 70                                                                                  | 111                                                                                 | 124                                                                                  | 111                                                                                   | 111                                                                                   |
| 2360                      | 77                                                                                  | 77                                                                                  | 121                                                                                 | 136                                                                                  | 121                                                                                   | 121                                                                                   |



## MHE 3140 - 3360 Ölçü Tabloları / Dimension Tables



| Gövde<br>Büyüküğü<br>Size | a   | A   | A <sub>1</sub> | B   | D<br>[H7] | E   | F        | F <sub>1</sub> | H<br>[h10] | H <sub>1</sub><br>[H11] | h<br>[h10] | K  | L  | M   | N<br>[h6] | P   | Q  | U   | α°   | β°   | γ° | W<br>[h10] |
|---------------------------|-----|-----|----------------|-----|-----------|-----|----------|----------------|------------|-------------------------|------------|----|----|-----|-----------|-----|----|-----|------|------|----|------------|
| 3140                      | 240 | 212 | 427            | 168 | 70        | 44  | 6xM14↓30 | 2xM12↓30       | 150        | 107                     | 125        | 18 | 23 | 265 | 230       | 300 | 4  | 205 | 23,5 | 44   | 45 | 515        |
| 3160                      | 285 | 252 | 507            | 220 | 80        | 54  | 6xM16↓32 | 2xM12↓32       | 180        | 136                     | 150        | 22 | 28 | 265 | 230       | 300 | 5  | 264 | 25   | 42,5 | 45 | 615        |
| 3180                      | 305 | 252 | 527            | 220 | 90        | 54  | 8xM16↓32 | -              | 180        | 136                     | 150        | 22 | 28 | 300 | 250       | 350 | 10 | 264 | 22,5 | 45   | 45 | 635        |
| 3200                      | 360 | 320 | 635            | 255 | 100       | 65  | 6xM20↓40 | 2xM16↓40       | 225        | 160                     | 180        | 27 | 34 | 350 | 300       | 400 | 6  | 311 | 22,5 | 45   | 45 | 765        |
| 3225                      | 385 | 320 | 660            | 255 | 110       | 65  | 6xM20↓42 | 2xM16↓42       | 225        | 160                     | 180        | 27 | 34 | 400 | 350       | 450 | 6  | 311 | 22,5 | 45   | 45 | 790        |
| 3250                      | 450 | 396 | 791            | 310 | 125       | 82  | 6xM24↓60 | 2xM20↓60       | 280        | 195                     | 225        | 33 | 42 | 500 | 450       | 550 | 22 | 380 | 25,5 | 42   | 45 | 955        |
| 3280                      | 480 | 396 | 821            | 330 | 140       | 82  | 6xM24↓60 | 2xM18↓60       | 280        | 205                     | 225        | 33 | 42 | 500 | 450       | 550 | 22 | 400 | 22,5 | 45   | 45 | 985        |
| 3320                      | 570 | 510 | 1005           | 406 | 160       | 100 | 8xM30↓60 | -              | 355        | 251                     | 280        | 39 | 52 | 600 | 550       | 660 | 20 | 490 | 30   | 37,5 | 45 | 1205       |
| 3360                      | 610 | 510 | 1045           | 421 | 180       | 100 | 8xM30↓60 | -              | 355        | 261                     | 280        | 39 | 52 | 600 | 550       | 660 | 20 | 505 | 30   | 37,5 | 45 | 1245       |

| Gövde<br>Büyüklüğü<br>Size | Z   | G          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | Ağırlık<br>Weight<br>[kg] |
|----------------------------|-----|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------------------|
|                            |     | 100/112 B5 |        | 132 B5 |        | 160 B5 |        | 180 B5 |        | 200 B5 |        | 225 B5 |        | 250 B5 |        | 280 B5 |        | 315 B5 |        |                           |
|                            |     | i < 70     | i > 70 | i < 70 | i > 70 | i < 70 | i > 70 | i < 70 | i > 70 | i < 70 | i > 70 | i < 70 | i > 70 | i < 70 | i > 70 | i < 70 | i > 70 | i < 70 | i > 70 |                           |
| 3140                       | 114 | 238        | 228    | 261    | 252    | 297    | -      | 299    | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      | 130                       |
| 3160                       | 145 | -          | 267    | 299    | 289    | 335    | 326    | 335    | -      | 337    | -      | 370    | -      | -      | -      | -      | -      | -      | -      | 230                       |
| 3180                       | 150 | -          | 267    | 299    | 289    | 335    | 325    | 335    | -      | 337    | -      | 370    | -      | -      | -      | -      | -      | -      | -      | 250                       |
| 3200                       | 170 | -          | -      | -      | 343    | 409    | 379    | 409    | 379    | 409    | -      | 439    | -      | 442    | -      | 442    | -      | -      | -      | 400                       |
| 3225                       | 170 | -          | -      | -      | 343    | 409    | 379    | 409    | 379    | 409    | 382    | 439    | -      | 443    | -      | 447    | -      | -      | -      | 430                       |
| 3250                       | 222 |            |        |        | 430    | 460    | 460    | 460    | 460    | 460    | 490    | 490    | 465    |        |        | 465    |        | 494    |        | 758                       |
| 3280                       | 232 | -          | -      | -      | -      | -      | 435    | 435    | 435    | 431    | 431    | 463    | 463    | 463    | 463    | 463    | -      | 494    | -      | 850                       |
| 3320                       | 276 | -          | -      | -      | -      | -      | 478    | -      | 478    | -      | 478    | 538    | 508    | 538    | 508    | 538    | 508    | 571    | -      | 1470                      |
| 3360                       | 286 | -          | -      | -      | -      | -      | -      | -      | -      | -      | 487    | -      | 517    | 547    | 517    | 547    | 517    | 579    | 579    | 1650                      |

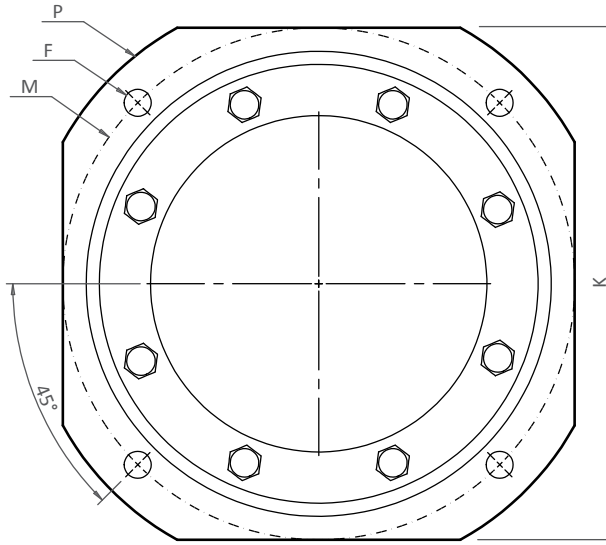
## Montaj Pozisyonları ve Yağlama Miktarı [l] / Mounting Position and Lubrication [l]

| Gövde<br>Büyüküğü<br>Size | M3   | M4   | M5   | M6   | M7   | M8   |
|---------------------------|------|------|------|------|------|------|
| 3140                      |      |      |      |      |      |      |
| 3160                      | 6,2  | 9,7  | 9,7  | 9,7  | 9,7  | 9,7  |
| 3180                      | 11   | 17   | 17   | 17   | 17   | 17   |
| 3200                      | 11,3 | 18,2 | 18,2 | 18,2 | 18,2 | 18,2 |
| 3225                      | 19,3 | 31   | 31   | 31   | 31   | 31   |
| 3250                      | 20,3 | 33   | 33   | 33   | 33   | 33   |
| 3280                      | 36   | 56   | 56   | 56   | 56   | 56   |
| 3320                      | 40   | 64   | 64   | 64   | 64   | 64   |
| 3360                      | 70   | 111  | 111  | 111  | 111  | 111  |
| 3360                      | 77   | 121  | 121  | 121  | 121  | 121  |

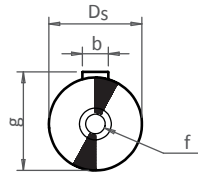


**063-140 Çıkış Mili Opsiyonu / Output Shaft Configuration**

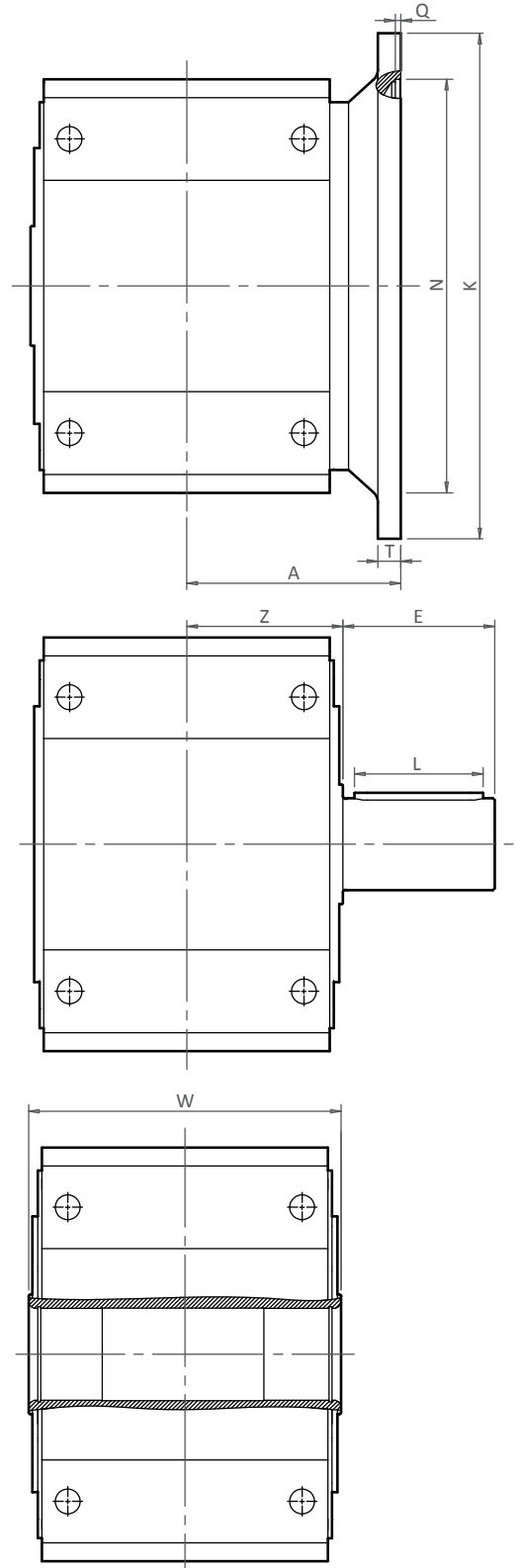
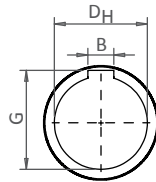
**FR  
FL  
FD**



**DR  
DL  
DD**



**HS**



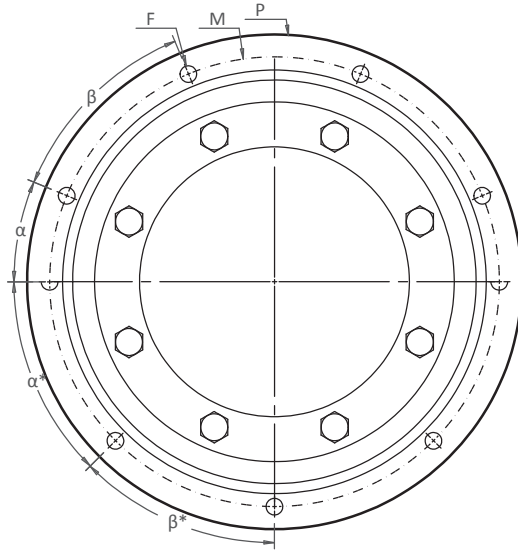
| Gövde<br>Büyüküğü<br>Size | A   | B<br>[JS9] | b<br>[h9] | D <sub>H</sub><br>[H7] | D <sub>S</sub> | E   | F    | f      | G     | g    | K   | L  | M   | N<br>[H7] | P   | Q   | T  | W     | Z     |
|---------------------------|-----|------------|-----------|------------------------|----------------|-----|------|--------|-------|------|-----|----|-----|-----------|-----|-----|----|-------|-------|
| 63                        | 105 | 8          | 8         | 30                     | 30 [h7]        | 58  | 12   | M10X25 | 32,7* | 33   | 152 | 45 | 165 | 130       | 200 | 4,5 | 14 | 135,5 | 67,8  |
| 80                        | 119 | 10         | 10        | 38                     | 38 [h7]        | 58  | 14,5 | M12X30 | 40,7* | 41   | 196 | 50 | 215 | 180       | 250 | 5   | 16 | 163   | 81,5  |
| 100                       | 139 | 14         | 14        | 48                     | 48 [h7]        | 82  | 14,5 | M16X38 | 51,8  | 51,5 | 248 | 70 | 265 | 230       | 300 | 5   | 18 | 193   | 96,5  |
| 125                       | 157 | 18         | 18        | 60                     | 60 [h7]        | 105 | 18,5 | M20X44 | 64,4  | 64   | 290 | 90 | 300 | 250       | 350 | 5   | 20 | 226   | 113   |
| 140                       | 168 | 20         | 20        | 70                     | 70 [j6]        | 105 | 18,5 | M20X44 | 74,9  | 74,5 | 350 | 90 | 350 | 300       | 400 | 5   | 22 | 227   | 113,5 |

\* Ölçü standart değildir. \ \* Values are not standard

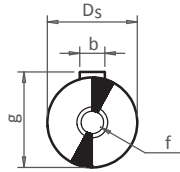


## 160-360 Çıkış Mili Opsiyonu / Output Shaft Configuration

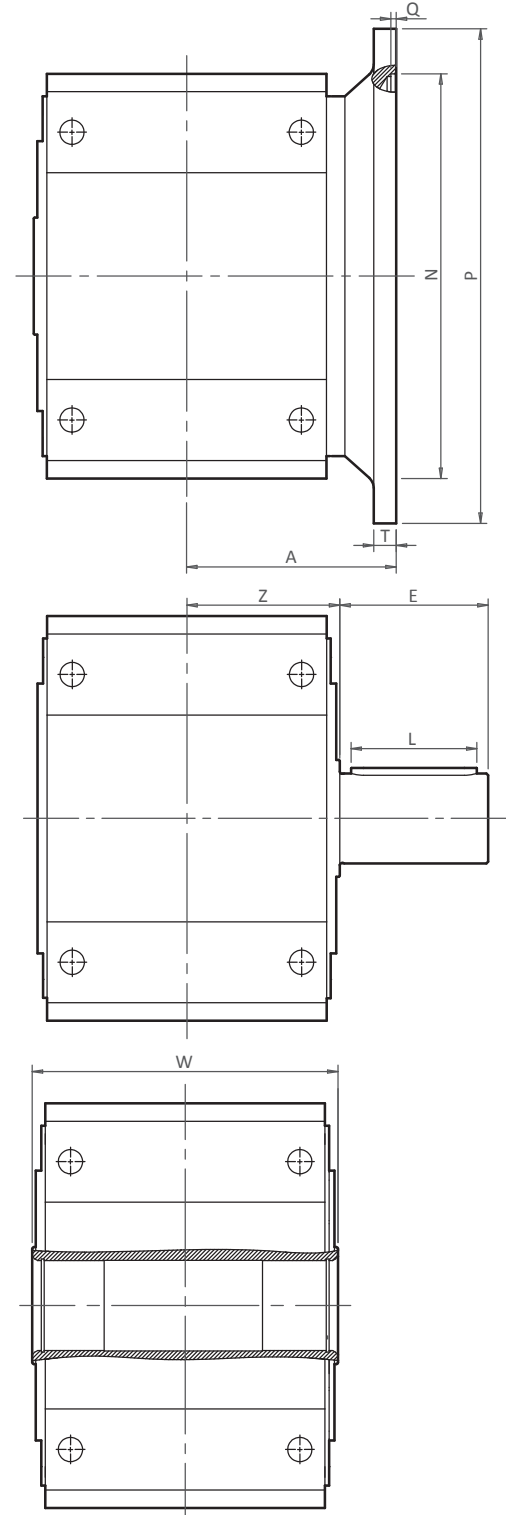
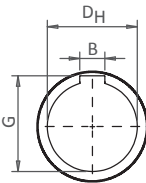
FR  
FL  
FD



DR  
DL  
DD



HS



| Gövde<br>Büyüklüğü<br>Size | A   | B<br>[JS9] | b<br>[h9] | D <sub>H</sub><br>[H7] | D <sub>S</sub><br>[j6] | E   | F    | f      | G     | g   | L   | M   | N<br>[H7] | P   | Q | T  | α°   | β°  | W   | Z   |
|----------------------------|-----|------------|-----------|------------------------|------------------------|-----|------|--------|-------|-----|-----|-----|-----------|-----|---|----|------|-----|-----|-----|
| 160                        | 199 | 22         | 22        | 80                     | 80                     | 130 | 18,5 | M20x44 | 85,4  | 85  | 110 | 400 | 350       | 450 | 5 | 22 | 22,5 | 45  | 290 | 145 |
| 180                        | 199 | 25         | 25        | 90                     | 90                     | 130 | 18,5 | M24x52 | 95,4  | 95  | 110 | 400 | 350       | 450 | 6 | 22 | 22,5 | 45  | 300 | 150 |
| 200                        | 233 | 28         | 28        | 100                    | 100                    | 165 | 18,5 | M24x52 | 106,4 | 106 | 140 | 500 | 450       | 550 | 6 | 25 | 22,5 | 45  | 340 | 170 |
| 225                        | 233 | 28         | 28        | 110                    | 110                    | 165 | 18,5 | M24x52 | 116,4 | 116 | 140 | 500 | 450       | 550 | 6 | 25 | 22,5 | 45  | 340 | 170 |
| 250                        | 280 | 32         | 32        | 125                    | 125                    | 200 | 27   | M24x52 | 132,4 | 132 | 180 | 600 | 550       | 660 | 7 | 30 | 45*  | 45* | 444 | 222 |
| 280                        | 290 | 36         | 36        | 140                    | 140                    | 200 | 27   | M30x60 | 148,4 | 148 | 180 | 600 | 550       | 660 | 7 | 30 | 45*  | 45* | 464 | 232 |
| 320                        | 355 | 40         | 40        | 160                    | 160                    | 240 | 33   | M30x60 | 169,4 | 169 | 220 | 740 | 680       | 800 | 7 | 37 | 22,5 | 45  | 552 | 276 |
| 360                        | 365 | 45         | 45        | 180                    | 180                    | 240 | 33   | M3xX60 | 190,4 | 190 | 220 | 740 | 680       | 800 | 7 | 37 | 22,5 | 45  | 571 | 286 |

\* 250-280 gövde flanş geometrisidir. \ \* Flange geometry of size 250 & 280

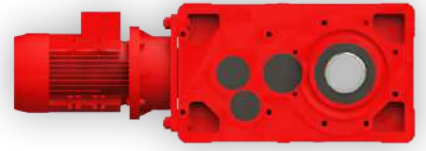


**MKH Performans Tabloları / Performance Tables**

| P <sub>1</sub><br>Giriş Gücü<br>Input Power<br>[kW] | n <sub>2</sub><br>Çıkış Devri<br>Output Speed<br>[rpm] | M <sub>2</sub><br>Çıkış Momenti<br>Output Torque<br>[Nm] | f <sub>s</sub><br>Servis<br>Faktörü<br>Service<br>Factor | Redüktör<br>Gearbox | i<br>Tahvil Oranı<br>Ratio | Motor<br>Motor |
|-----------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|---------------------|----------------------------|----------------|
| <b>0,37</b>                                         | 37,5                                                   | 90                                                       | 2,62                                                     | MKH 2063            | 24,0                       | 80A6           |
|                                                     | 44,1                                                   | 77                                                       | 3,17                                                     | MKH 2063            | 20,4                       | 80A6           |
| <b>0,55</b>                                         | 37,5                                                   | 135                                                      | 1,76                                                     | MKH 2063            | 24,0                       | 80B6           |
|                                                     | 44,1                                                   | 114                                                      | 2,13                                                     | MKH 2063            | 20,4                       | 80B6           |
|                                                     | 58,3                                                   | 86                                                       | 2,64                                                     | MKH 2063            | 24,0                       | 80A4           |
|                                                     | 60,3                                                   | 84                                                       | 3,15                                                     | MKH 2063            | 14,9                       | 80B6           |
|                                                     | 68,6                                                   | 74                                                       | 3,20                                                     | MKH 2063            | 20,4                       | 80A4           |
|                                                     |                                                        |                                                          |                                                          |                     |                            |                |
| <b>0,75</b>                                         | 37,5                                                   | 183                                                      | 1,29                                                     | MKH 2063            | 24,0                       | 90S6           |
|                                                     | 38,2                                                   | 180                                                      | 3,19                                                     | MKH 2080            | 23,6                       | 90S6           |
|                                                     | 44,1                                                   | 156                                                      | 1,56                                                     | MKH 2063            | 20,4                       | 90S6           |
|                                                     | 45,4                                                   | 152                                                      | 3,40                                                     | MKH 2080            | 19,8                       | 90S6           |
|                                                     | 58,3                                                   | 118                                                      | 1,93                                                     | MKH 2063            | 24,0                       | 80B4           |
|                                                     | 60,3                                                   | 114                                                      | 2,31                                                     | MKH 2063            | 14,9                       | 90S6           |
|                                                     | 68,6                                                   | 100                                                      | 2,34                                                     | MKH 2063            | 20,4                       | 80B4           |
|                                                     | 70,9                                                   | 97                                                       | 3,27                                                     | MKH 2063            | 12,7                       | 90S6           |
|                                                     | 91,9                                                   | 75                                                       | 3,81                                                     | MKH 2063            | 9,79                       | 90S6           |
|                                                     | 93,8                                                   | 73                                                       | 3,46                                                     | MKH 2063            | 14,9                       | 80B4           |
|                                                     |                                                        |                                                          |                                                          |                     |                            |                |
|                                                     |                                                        |                                                          |                                                          |                     |                            |                |
| <b>1,1</b>                                          | 37,5                                                   | 269                                                      | 0,88                                                     | MKH 2063            | 24,0                       | 90L6           |
|                                                     | 38,2                                                   | 264                                                      | 2,17                                                     | MKH 2080            | 23,6                       | 90L6           |
|                                                     | 44,1                                                   | 229                                                      | 1,07                                                     | MKH 2063            | 20,4                       | 90L6           |
|                                                     | 45,4                                                   | 222                                                      | 2,32                                                     | MKH 2080            | 19,8                       | 90L6           |
|                                                     | 58,3                                                   | 173                                                      | 1,32                                                     | MKH 2063            | 24,0                       | 90S4           |
|                                                     | 59,4                                                   | 170                                                      | 3,25                                                     | MKH 2080            | 23,6                       | 90S4           |
|                                                     | 59,8                                                   | 169                                                      | 3,43                                                     | MKH 2080            | 15,0                       | 90L6           |
|                                                     | 60,3                                                   | 167                                                      | 1,58                                                     | MKH 2063            | 14,9                       | 90L6           |
|                                                     | 68,6                                                   | 147                                                      | 1,60                                                     | MKH 2063            | 20,4                       | 90S4           |
|                                                     | 70,6                                                   | 143                                                      | 3,47                                                     | MKH 2080            | 19,8                       | 90S4           |
|                                                     | 70,9                                                   | 142                                                      | 2,23                                                     | MKH 2063            | 12,7                       | 90L6           |
|                                                     | 91,9                                                   | 110                                                      | 2,60                                                     | MKH 2063            | 9,79                       | 90L6           |
|                                                     | 93,8                                                   | 108                                                      | 2,36                                                     | MKH 2063            | 14,9                       | 90S4           |
|                                                     | 110                                                    | 91                                                       | 3,34                                                     | MKH 2063            | 12,7                       | 90S4           |
|                                                     | 117                                                    | 86                                                       | 3,53                                                     | MKH 2063            | 7,70                       | 90L6           |
|                                                     | 143                                                    | 71                                                       | 3,88                                                     | MKH 2063            | 9,79                       | 90S4           |
|                                                     | 152                                                    | 66                                                       | 3,81                                                     | MKH 2063            | 5,93                       | 90L6           |
|                                                     |                                                        |                                                          |                                                          |                     |                            |                |
| <b>1,5</b>                                          | 7,48                                                   | 1802                                                     | 1,70                                                     | MKH 3140            | 120                        | 100LA6         |
|                                                     | 7,58                                                   | 1779                                                     | 2,85                                                     | MKH 3160            | 119                        | 100LA6         |
|                                                     | 9,17                                                   | 1470                                                     | 2,12                                                     | MKH 3140            | 98,2                       | 100LA6         |
|                                                     | 11,5                                                   | 1172                                                     | 2,64                                                     | MKH 3140            | 78,2                       | 100LA6         |
|                                                     | 14,1                                                   | 956                                                      | 3,26                                                     | MKH 3140            | 63,8                       | 100LA6         |
|                                                     | 37,4                                                   | 368                                                      | 2,59                                                     | MKH 2100            | 24,1                       | 100LA6         |
|                                                     | 38,2                                                   | 360                                                      | 1,59                                                     | MKH 2080            | 23,6                       | 100LA6         |
|                                                     | 45,4                                                   | 303                                                      | 1,70                                                     | MKH 2080            | 19,8                       | 100LA6         |
|                                                     | 47,1                                                   | 292                                                      | 3,27                                                     | MKH 2100            | 19,1                       | 100LA6         |
|                                                     | 58,3                                                   | 236                                                      | 0,97                                                     | MKH 2063            | 24,0                       | 90L4           |
|                                                     | 59,4                                                   | 232                                                      | 2,38                                                     | MKH 2080            | 23,6                       | 90L4           |
|                                                     | 59,8                                                   | 230                                                      | 2,51                                                     | MKH 2080            | 15,0                       | 100LA6         |
|                                                     | 68,6                                                   | 200                                                      | 1,17                                                     | MKH 2063            | 20,4                       | 90L4           |
|                                                     | 70,6                                                   | 195                                                      | 2,55                                                     | MKH 2080            | 19,8                       | 90L4           |
|                                                     | 71,1                                                   | 193                                                      | 3,40                                                     | MKH 2080            | 12,7                       | 100LA6         |
|                                                     |                                                        |                                                          |                                                          |                     |                            |                |

| P <sub>1</sub><br>Giriş Gücü<br>Input Power<br>[kW] | n <sub>2</sub><br>Çıkış Devri<br>Output Speed<br>[rpm] | M <sub>2</sub><br>Çıkış Momenti<br>Output Torque<br>[Nm] | f <sub>s</sub><br>Servis<br>Faktörü<br>Service<br>Factor | Redüktör<br>Gearbox | i<br>Tahvil Oranı<br>Ratio | Motor<br>Motor |
|-----------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|---------------------|----------------------------|----------------|
| <b>1,5</b>                                          | 93,1                                                   | 148                                                      | 3,76                                                     | MKH 2080            | 15,0                       | 90L4           |
|                                                     | 93,8                                                   | 147                                                      | 1,73                                                     | MKH 2063            | 14,9                       | 90L4           |
|                                                     | 110                                                    | 125                                                      | 2,45                                                     | MKH 2063            | 12,7                       | 90L4           |
|                                                     | 143                                                    | 96                                                       | 2,85                                                     | MKH 2063            | 9,79                       | 90L4           |
|                                                     | 182                                                    | 76                                                       | 3,87                                                     | MKH 2063            | 7,70                       | 90L4           |
|                                                     | 236                                                    | 58                                                       | 4,17                                                     | MKH 2063            | 5,93                       | 90L4           |
|                                                     |                                                        |                                                          |                                                          |                     |                            |                |
| <b>2,2</b>                                          | 7,48                                                   | 2643                                                     | 1,16                                                     | MKH 3140            | 120                        | 112M6          |
|                                                     | 7,58                                                   | 2609                                                     | 1,94                                                     | MKH 3160            | 119                        | 112M6          |
|                                                     | 7,70                                                   | 2567                                                     | 2,96                                                     | MKH 3180            | 117                        | 112M6          |
|                                                     | 9,17                                                   | 2157                                                     | 1,45                                                     | MKH 3140            | 98,2                       | 112M6          |
|                                                     | 9,26                                                   | 2134                                                     | 3,56                                                     | MKH 3180            | 97,1                       | 112M6          |
|                                                     | 9,29                                                   | 2129                                                     | 2,65                                                     | MKH 3160            | 96,9                       | 112M6          |
|                                                     | 10,6                                                   | 1860                                                     | 3,08                                                     | MKH 3160            | 84,7                       | 112M6          |
|                                                     | 11,5                                                   | 1719                                                     | 1,80                                                     | MKH 3140            | 78,2                       | 112M6          |
|                                                     | 11,6                                                   | 1699                                                     | 1,73                                                     | MKH 3140            | 120                        | 100LA4         |
|                                                     | 11,8                                                   | 1677                                                     | 2,92                                                     | MKH 3160            | 119                        | 100LA4         |
|                                                     | 11,9                                                   | 1660                                                     | 3,12                                                     | MKH 3160            | 75,5                       | 112M6          |
|                                                     | 14,1                                                   | 1402                                                     | 2,22                                                     | MKH 3140            | 63,8                       | 112M6          |
|                                                     | 14,3                                                   | 1386                                                     | 2,17                                                     | MKH 3140            | 98,2                       | 100LA4         |
|                                                     | 17,7                                                   | 1115                                                     | 2,84                                                     | MKH 3140            | 50,7                       | 112M6          |
|                                                     | 17,9                                                   | 1105                                                     | 2,69                                                     | MKH 3140            | 78,2                       | 100LA4         |
|                                                     | 21,9                                                   | 902                                                      | 3,33                                                     | MKH 3140            | 63,8                       | 100LA4         |
|                                                     | 37,4                                                   | 539                                                      | 1,76                                                     | MKH 2100            | 24,1                       | 112M6          |
|                                                     | 38,2                                                   | 528                                                      | 1,09                                                     | MKH 2080            | 23,6                       | 112M6          |
|                                                     | 45,4                                                   | 445                                                      | 1,16                                                     | MKH 2080            | 19,8                       | 112M6          |
|                                                     | 47,1                                                   | 429                                                      | 2,23                                                     | MKH 2100            | 19,1                       | 112M6          |
|                                                     | 57,5                                                   | 351                                                      | 3,34                                                     | MKH 2100            | 15,7                       | 112M6          |
|                                                     | 58,2                                                   | 347                                                      | 2,64                                                     | MKH 2100            | 24,1                       | 100LA4         |
|                                                     | 59,4                                                   | 340                                                      | 1,62                                                     | MKH 2080            | 23,6                       | 100LA4         |
|                                                     | 59,8                                                   | 337                                                      | 1,71                                                     | MKH 2080            | 15,0                       | 112M6          |
|                                                     | 70,6                                                   | 286                                                      | 1,74                                                     | MKH 2080            | 19,8                       | 100LA4         |
|                                                     | 71,1                                                   | 284                                                      | 2,32                                                     | MKH 2080            | 12,7                       | 112M6          |
|                                                     | 73,2                                                   | 276                                                      | 3,33                                                     | MKH 2100            | 19,1                       | 100LA4         |
|                                                     | 91,2                                                   | 221                                                      | 2,83                                                     | MKH 2080            | 9,87                       | 112M6          |
|                                                     | 93,1                                                   | 217                                                      | 2,56                                                     | MKH 2080            | 15,0                       | 100LA4         |
|                                                     | 111                                                    | 182                                                      | 3,47                                                     | MKH 2080            | 12,7                       | 100LA4         |
|                                                     | 121                                                    | 167                                                      | 3,71                                                     | MKH 2080            | 7,43                       | 112M6          |
|                                                     | 145                                                    | 139                                                      | 3,71                                                     | MKH 2080            | 6,22                       | 112M6          |
|                                                     |                                                        |                                                          |                                                          |                     |                            |                |
| <b>3</b>                                            | 7,58                                                   | 3558                                                     | 1,42                                                     | MKH 3160            | 119                        | 132S6          |
|                                                     | 7,70                                                   | 3501                                                     | 2,17                                                     | MKH 3180            | 117                        | 132S6          |
|                                                     | 7,70                                                   | 3501                                                     | 3,05                                                     | MKH 3200            | 117                        | 132S6          |
|                                                     | 9,26                                                   | 2910                                                     | 2,61                                                     | MKH 3180            | 97,1                       | 132S6          |
|                                                     | 9,29                                                   | 2903                                                     | 1,94                                                     | MKH 3160            | 96,9                       | 132S6          |
|                                                     | 10,6                                                   | 2543                                                     | 2,99                                                     | MKH 3180            | 84,9                       | 132S6          |
|                                                     | 10,6                                                   | 2537                                                     | 2,26                                                     | MKH 3160            | 84,7                       | 132S6          |
|                                                     | 11,5                                                   | 2344                                                     | 1,32                                                     | MKH 3140            | 78,2                       | 132S6          |
|                                                     | 11,6                                                   | 2317                                                     | 1,27                                                     | MKH 3140            | 120                        | 100LB4         |
|                                                     | 11,8                                                   | 2287                                                     | 2,14                                                     | MKH 3160            | 119                        | 100LB4         |
|                                                     | 11,9                                                   | 2263                                                     | 2,29                                                     | MKH 3160            | 75,5                       | 132S6          |
|                                                     |                                                        |                                                          |                                                          |                     |                            |                |
|                                                     |                                                        |                                                          |                                                          |                     |                            |                |
|                                                     |                                                        |                                                          |                                                          |                     |                            |                |





## MKH Performans Tabloları / Performance Tables

| P <sub>1</sub><br>Giriş Gücü<br>Input Power<br>[kW] | n <sub>2</sub><br>Çıkış Devri<br>Output Speed<br>[rpm] | M <sub>2</sub><br>Çıkış Momenti<br>Output Torque<br>[Nm] | f <sub>s</sub><br>Servis<br>Faktörü<br>Service<br>Factor | Redüktör<br>Gearbox | Tahvil Oranı<br>Ratio | Motor<br>Motor |
|-----------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|---------------------|-----------------------|----------------|
| 3                                                   | 12,0                                                   | 2251                                                     | 3,24                                                     | MKH 3180            | 117                   | 100LB4         |
|                                                     | 12,1                                                   | 2227                                                     | 3,42                                                     | MKH 3180            | 74,3                  | 132S6          |
|                                                     | 14,1                                                   | 1912                                                     | 1,63                                                     | MKH 3140            | 63,8                  | 132S6          |
|                                                     | 14,3                                                   | 1891                                                     | 1,59                                                     | MKH 3140            | 98,2                  | 100LB4         |
|                                                     | 14,4                                                   | 1866                                                     | 2,91                                                     | MKH 3160            | 96,9                  | 100LB4         |
|                                                     | 14,6                                                   | 1847                                                     | 3,12                                                     | MKH 3160            | 61,6                  | 132S6          |
|                                                     | 16,5                                                   | 1631                                                     | 3,37                                                     | MKH 3160            | 84,7                  | 100LB4         |
|                                                     | 17,7                                                   | 1520                                                     | 2,08                                                     | MKH 3140            | 50,7                  | 132S6          |
|                                                     | 17,9                                                   | 1507                                                     | 1,97                                                     | MKH 3140            | 78,2                  | 100LB4         |
|                                                     | 18,5                                                   | 1455                                                     | 3,43                                                     | MKH 3160            | 75,5                  | 100LB4         |
|                                                     | 21,9                                                   | 1229                                                     | 2,44                                                     | MKH 3140            | 63,8                  | 100LB4         |
|                                                     | 22,0                                                   | 1225                                                     | 2,74                                                     | MKH 3140            | 40,9                  | 132S6          |
|                                                     | 27,6                                                   | 977                                                      | 3,12                                                     | MKH 3140            | 50,7                  | 100LB4         |
|                                                     | 36,0                                                   | 764                                                      | 3,40                                                     | MKH 2140            | 25,0                  | 132S6          |
|                                                     | 37,4                                                   | 736                                                      | 1,29                                                     | MKH 2100            | 24,1                  | 132S6          |
|                                                     | 37,9                                                   | 726                                                      | 2,89                                                     | MKH 2125            | 23,8                  | 132S6          |
|                                                     | 43,4                                                   | 634                                                      | 3,40                                                     | MKH 2125            | 20,8                  | 132S6          |
|                                                     | 47,1                                                   | 585                                                      | 1,63                                                     | MKH 2100            | 19,1                  | 132S6          |
|                                                     | 57,5                                                   | 478                                                      | 2,45                                                     | MKH 2100            | 15,7                  | 132S6          |
|                                                     | 58,2                                                   | 473                                                      | 1,93                                                     | MKH 2100            | 24,1                  | 100LB4         |
|                                                     | 59,4                                                   | 463                                                      | 1,19                                                     | MKH 2080            | 23,6                  | 100LB4         |
|                                                     | 70,6                                                   | 390                                                      | 1,27                                                     | MKH 2080            | 19,8                  | 100LB4         |
|                                                     | 72,4                                                   | 380                                                      | 3,13                                                     | MKH 2100            | 12,4                  | 132S6          |
|                                                     | 73,2                                                   | 376                                                      | 2,44                                                     | MKH 2100            | 19,1                  | 100LB4         |
|                                                     | 89,5                                                   | 308                                                      | 3,66                                                     | MKH 2100            | 15,7                  | 100LB4         |
|                                                     | 93,1                                                   | 296                                                      | 1,88                                                     | MKH 2080            | 15,0                  | 100LB4         |
|                                                     | 111                                                    | 249                                                      | 2,54                                                     | MKH 2080            | 12,7                  | 100LB4         |
|                                                     | 142                                                    | 194                                                      | 3,10                                                     | MKH 2080            | 9,87                  | 100LB4         |
|                                                     | 188                                                    | 146                                                      | 4,07                                                     | MKH 2080            | 7,43                  | 100LB4         |
|                                                     | 225                                                    | 122                                                      | 4,07                                                     | MKH 2080            | 6,22                  | 100LB4         |
| 4                                                   | 7,20                                                   | 4992                                                     | 4,04                                                     | MKH 3250            | 125                   | 132 MA6        |
|                                                     | 7,58                                                   | 4744                                                     | 1,07                                                     | MKH 3160            | 119                   | 132MA6         |
|                                                     | 7,58                                                   | 4744                                                     | 3,25                                                     | MKH 3225            | 119                   | 132MA6         |
|                                                     | 7,70                                                   | 4668                                                     | 1,63                                                     | MKH 3180            | 117                   | 132MA6         |
|                                                     | 7,70                                                   | 4668                                                     | 2,29                                                     | MKH 3200            | 117                   | 132MA6         |
|                                                     | 9,18                                                   | 3919                                                     | 2,86                                                     | MKH 3200            | 98,1                  | 132MA6         |
|                                                     | 9,26                                                   | 3881                                                     | 1,96                                                     | MKH 3180            | 97,1                  | 132MA6         |
|                                                     | 9,29                                                   | 3871                                                     | 1,46                                                     | MKH 3160            | 96,9                  | 132MA6         |
|                                                     | 10,6                                                   | 3390                                                     | 2,24                                                     | MKH 3180            | 84,9                  | 132MA6         |
|                                                     | 10,6                                                   | 3382                                                     | 1,69                                                     | MKH 3160            | 84,7                  | 132MA6         |
|                                                     | 10,7                                                   | 3366                                                     | 3,38                                                     | MKH 3200            | 84,3                  | 132MA6         |
|                                                     | 11,5                                                   | 3125                                                     | 0,99                                                     | MKH 3140            | 78,2                  | 132MA6         |
|                                                     | 11,6                                                   | 3089                                                     | 0,95                                                     | MKH 3140            | 120                   | 112M4          |
|                                                     | 11,8                                                   | 3050                                                     | 1,61                                                     | MKH 3160            | 119                   | 112M4          |
|                                                     | 11,9                                                   | 3017                                                     | 1,72                                                     | MKH 3160            | 75,5                  | 132MA6         |
|                                                     | 12,0                                                   | 3001                                                     | 2,43                                                     | MKH 3180            | 117                   | 112M4          |
|                                                     | 12,1                                                   | 2969                                                     | 2,56                                                     | MKH 3180            | 74,3                  | 132MA6         |
|                                                     | 14,1                                                   | 2550                                                     | 1,22                                                     | MKH 3140            | 63,8                  | 132MA6         |
|                                                     | 14,3                                                   | 2521                                                     | 1,19                                                     | MKH 3140            | 98,2                  | 112M4          |

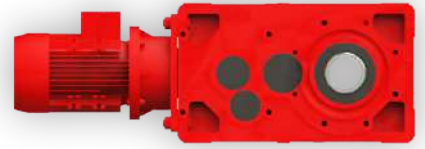
| P <sub>1</sub><br>Giriş Gücü<br>Input Power<br>[kW] | n <sub>2</sub><br>Çıkış Devri<br>Output Speed<br>[rpm] | M <sub>2</sub><br>Çıkış Momenti<br>Output Torque<br>[Nm] | f <sub>s</sub><br>Servis<br>Faktörü<br>Service<br>Factor | Redüktör<br>Gearbox | Tahvil Oranı<br>Ratio | Motor<br>Motor |
|-----------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|---------------------|-----------------------|----------------|
| 4                                                   | 14,4                                                   | 2495                                                     | 2,93                                                     | MKH 3180            | 97,1                  | 112M4          |
|                                                     | 14,4                                                   | 2488                                                     | 2,18                                                     | MKH 3160            | 96,9                  | 112M4          |
|                                                     | 14,6                                                   | 2468                                                     | 3,09                                                     | MKH 3180            | 61,8                  | 132MA6         |
|                                                     | 14,6                                                   | 2462                                                     | 2,34                                                     | MKH 3160            | 61,6                  | 132MA6         |
|                                                     | 16,5                                                   | 2180                                                     | 3,36                                                     | MKH 3180            | 84,9                  | 112M4          |
|                                                     | 16,5                                                   | 2174                                                     | 2,53                                                     | MKH 3160            | 84,7                  | 112M4          |
|                                                     | 16,7                                                   | 2151                                                     | 2,71                                                     | MKH 3160            | 53,8                  | 132MA6         |
|                                                     | 17,7                                                   | 2027                                                     | 1,56                                                     | MKH 3140            | 50,7                  | 132MA6         |
|                                                     | 17,9                                                   | 2009                                                     | 1,48                                                     | MKH 3140            | 78,2                  | 112M4          |
|                                                     | 18,5                                                   | 1940                                                     | 2,57                                                     | MKH 3160            | 75,5                  | 112M4          |
|                                                     | 21,6                                                   | 1664                                                     | 3,49                                                     | MKH 3160            | 41,7                  | 132MA6         |
|                                                     | 21,9                                                   | 1639                                                     | 1,83                                                     | MKH 3140            | 63,8                  | 112M4          |
|                                                     | 22,0                                                   | 1633                                                     | 2,06                                                     | MKH 3140            | 40,9                  | 132MA6         |
|                                                     | 22,7                                                   | 1583                                                     | 3,50                                                     | MKH 3160            | 61,6                  | 112M4          |
|                                                     | 27,6                                                   | 1303                                                     | 2,34                                                     | MKH 3140            | 50,7                  | 112M4          |
|                                                     | 28,8                                                   | 1248                                                     | 2,68                                                     | MKH 3140            | 31,2                  | 132MA6         |
|                                                     | 34,3                                                   | 1050                                                     | 3,08                                                     | MKH 3140            | 40,9                  | 112M4          |
|                                                     | 34,9                                                   | 1030                                                     | 3,25                                                     | MKH 3140            | 25,8                  | 132MA6         |
|                                                     | 36,0                                                   | 1019                                                     | 2,55                                                     | MKH 2140            | 25,0                  | 132MA6         |
|                                                     | 37,4                                                   | 981                                                      | 0,97                                                     | MKH 2100            | 24,1                  | 132MA6         |
|                                                     | 37,9                                                   | 968                                                      | 2,17                                                     | MKH 2125            | 23,8                  | 132MA6         |
|                                                     | 43,4                                                   | 846                                                      | 2,55                                                     | MKH 2125            | 20,8                  | 132MA6         |
|                                                     | 44,1                                                   | 832                                                      | 2,81                                                     | MKH 2140            | 20,4                  | 132MA6         |
|                                                     | 47,1                                                   | 779                                                      | 1,23                                                     | MKH 2100            | 19,1                  | 132MA6         |
|                                                     | 57,5                                                   | 638                                                      | 1,84                                                     | MKH 2100            | 15,7                  | 132MA6         |
|                                                     | 58,2                                                   | 630                                                      | 1,45                                                     | MKH 2100            | 24,1                  | 112M4          |
|                                                     | 59,4                                                   | 618                                                      | 0,89                                                     | MKH 2080            | 23,6                  | 112M4          |
|                                                     | 70,6                                                   | 520                                                      | 0,95                                                     | MKH 2080            | 19,8                  | 112M4          |
|                                                     | 72,4                                                   | 507                                                      | 2,35                                                     | MKH 2100            | 12,4                  | 132MA6         |
|                                                     | 73,2                                                   | 501                                                      | 1,83                                                     | MKH 2100            | 19,1                  | 112M4          |
|                                                     | 89,5                                                   | 410                                                      | 2,75                                                     | MKH 2100            | 15,7                  | 112M4          |
|                                                     | 93,1                                                   | 394                                                      | 1,41                                                     | MKH 2080            | 15,0                  | 112M4          |
|                                                     | 94,7                                                   | 387                                                      | 3,06                                                     | MKH 2100            | 9,50                  | 132MA6         |
|                                                     | 111                                                    | 331                                                      | 1,91                                                     | MKH 2080            | 12,7                  | 112M4          |
|                                                     | 113                                                    | 326                                                      | 3,51                                                     | MKH 2100            | 12,4                  | 112M4          |
|                                                     | 118                                                    | 312                                                      | 3,95                                                     | MKH 2100            | 7,65                  | 132MA6         |
|                                                     | 142                                                    | 259                                                      | 2,33                                                     | MKH 2080            | 9,87                  | 112M4          |
|                                                     | 142                                                    | 258                                                      | 3,95                                                     | MKH 2100            | 6,32                  | 132MA6         |
|                                                     | 188                                                    | 195                                                      | 3,05                                                     | MKH 2080            | 7,43                  | 112M4          |
|                                                     | 225                                                    | 163                                                      | 3,06                                                     | MKH 2080            | 6,22                  | 112M4          |
| 5,5                                                 | 7,20                                                   | 6864                                                     | 2,94                                                     | MKH 3250            | 125                   | 132 MB6        |
|                                                     | 7,58                                                   | 6523                                                     | 2,37                                                     | MKH 3225            | 119                   | 132MB6         |
|                                                     | 7,70                                                   | 6418                                                     | 1,18                                                     | MKH 3180            | 117                   | 132MB6         |
|                                                     | 7,70                                                   | 6418                                                     | 1,67                                                     | MKH 3200            | 117                   | 132MB6         |
|                                                     | 9,15                                                   | 5401                                                     | 2,84                                                     | MKH 3225            | 98,3                  | 132MB6         |
|                                                     | 9,18                                                   | 5388                                                     | 2,08                                                     | MKH 3200            | 98,1                  | 132MB6         |
|                                                     | 9,26                                                   | 5336                                                     | 1,42                                                     | MKH 3180            | 97,1                  | 132MB6         |
|                                                     | 9,29                                                   | 5323                                                     | 1,06                                                     | MKH 3160            | 96,9                  | 132MB6         |
|                                                     | 10,6                                                   | 4662                                                     | 1,63                                                     | MKH 3180            | 84,9                  | 132MB6         |



**MKH Performans Tabloları / Performance Tables**

| P <sub>1</sub><br>Giriş Gücü<br>Input Power<br>[kW] | n <sub>2</sub><br>Çıkış Devri<br>Output Speed<br>[rpm] | M <sub>2</sub><br>Çıkış Momenti<br>Output Torque<br>[Nm] | f <sub>s</sub><br>Servis<br>Faktörü<br>Service<br>Factor | Redüktör<br>Gearbox | İ<br>Tahvil Oranı<br>Ratio | Motor<br>Motor |
|-----------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|---------------------|----------------------------|----------------|
| 5,5                                                 | 10,6                                                   | 4650                                                     | 1,23                                                     | MKH 3160            | 84,7                       | 132MB6         |
|                                                     | 10,7                                                   | 4628                                                     | 2,46                                                     | MKH 3200            | 84,3                       | 132MB6         |
|                                                     | 11,8                                                   | 4193                                                     | 1,17                                                     | MKH 3160            | 119                        | 132S4          |
|                                                     | 11,8                                                   | 4193                                                     | 3,54                                                     | MKH 3225            | 119                        | 132S4          |
|                                                     | 11,9                                                   | 4149                                                     | 1,25                                                     | MKH 3160            | 75,5                       | 132MB6         |
|                                                     | 12,0                                                   | 4126                                                     | 1,77                                                     | MKH 3180            | 117                        | 132S4          |
|                                                     | 12,0                                                   | 4126                                                     | 2,49                                                     | MKH 3200            | 117                        | 132S4          |
|                                                     | 12,1                                                   | 4082                                                     | 1,86                                                     | MKH 3180            | 74,3                       | 132MB6         |
|                                                     | 12,2                                                   | 4044                                                     | 2,65                                                     | MKH 3200            | 73,6                       | 132MB6         |
|                                                     | 14,3                                                   | 3464                                                     | 3,12                                                     | MKH 3200            | 98,1                       | 132S4          |
|                                                     | 14,4                                                   | 3430                                                     | 2,13                                                     | MKH 3180            | 97,1                       | 132S4          |
|                                                     | 14,4                                                   | 3422                                                     | 1,59                                                     | MKH 3160            | 96,9                       | 132S4          |
|                                                     | 14,6                                                   | 3394                                                     | 2,24                                                     | MKH 3180            | 61,8                       | 132MB6         |
|                                                     | 14,6                                                   | 3385                                                     | 1,70                                                     | MKH 3160            | 61,6                       | 132MB6         |
|                                                     | 16,5                                                   | 2997                                                     | 2,44                                                     | MKH 3180            | 84,9                       | 132S4          |
|                                                     | 16,5                                                   | 2989                                                     | 1,84                                                     | MKH 3160            | 84,7                       | 132S4          |
|                                                     | 16,7                                                   | 2965                                                     | 2,57                                                     | MKH 3180            | 54,0                       | 132MB6         |
|                                                     | 16,7                                                   | 2957                                                     | 1,97                                                     | MKH 3160            | 53,8                       | 132MB6         |
|                                                     | 17,7                                                   | 2787                                                     | 1,14                                                     | MKH 3140            | 50,7                       | 132MB6         |
|                                                     | 17,9                                                   | 2762                                                     | 1,08                                                     | MKH 3140            | 78,2                       | 132S4          |
|                                                     | 18,5                                                   | 2667                                                     | 1,87                                                     | MKH 3160            | 75,5                       | 132S4          |
|                                                     | 18,8                                                   | 2624                                                     | 2,79                                                     | MKH 3180            | 74,3                       | 132S4          |
|                                                     | 21,6                                                   | 2288                                                     | 2,54                                                     | MKH 3160            | 41,7                       | 132MB6         |
|                                                     | 21,9                                                   | 2254                                                     | 1,33                                                     | MKH 3140            | 63,8                       | 132S4          |
|                                                     | 22,0                                                   | 2245                                                     | 1,50                                                     | MKH 3140            | 40,9                       | 132MB6         |
|                                                     | 22,7                                                   | 2182                                                     | 3,36                                                     | MKH 3180            | 61,8                       | 132S4          |
|                                                     | 22,7                                                   | 2176                                                     | 2,55                                                     | MKH 3160            | 61,6                       | 132S4          |
|                                                     | 26,0                                                   | 1901                                                     | 2,95                                                     | MKH 3160            | 53,8                       | 132S4          |
|                                                     | 27,6                                                   | 1791                                                     | 1,70                                                     | MKH 3140            | 50,7                       | 132S4          |
|                                                     | 28,8                                                   | 1715                                                     | 1,95                                                     | MKH 3140            | 31,2                       | 132MB6         |
|                                                     | 34,3                                                   | 1443                                                     | 2,24                                                     | MKH 3140            | 40,9                       | 132S4          |
|                                                     | 34,9                                                   | 1416                                                     | 2,37                                                     | MKH 3140            | 25,8                       | 132MB6         |
|                                                     | 36,0                                                   | 1401                                                     | 1,86                                                     | MKH 2140            | 25,0                       | 132MB6         |
|                                                     | 36,0                                                   | 1401                                                     | 2,97                                                     | MKH 2160            | 25,0                       | 132MB6         |
|                                                     | 37,9                                                   | 1331                                                     | 1,58                                                     | MKH 2125            | 23,8                       | 132MB6         |
|                                                     | 43,4                                                   | 1163                                                     | 1,86                                                     | MKH 2125            | 20,8                       | 132MB6         |
|                                                     | 44,1                                                   | 1143                                                     | 2,04                                                     | MKH 2140            | 20,4                       | 132MB6         |
|                                                     | 44,8                                                   | 1103                                                     | 2,92                                                     | MKH 3140            | 31,2                       | 132S4          |
|                                                     | 47,1                                                   | 1072                                                     | 0,89                                                     | MKH 2100            | 19,1                       | 132MB6         |
|                                                     | 54,3                                                   | 910                                                      | 3,54                                                     | MKH 3140            | 25,8                       | 132S4          |
|                                                     | 56,0                                                   | 901                                                      | 2,78                                                     | MKH 2140            | 25,0                       | 132S4          |
|                                                     | 57,5                                                   | 877                                                      | 1,33                                                     | MKH 2100            | 15,7                       | 132MB6         |
|                                                     | 58,2                                                   | 867                                                      | 1,05                                                     | MKH 2100            | 24,1                       | 132S4          |
|                                                     | 58,9                                                   | 856                                                      | 2,36                                                     | MKH 2125            | 23,8                       | 132S4          |
|                                                     | 59,6                                                   | 847                                                      | 2,60                                                     | MKH 2125            | 15,1                       | 132MB6         |
|                                                     | 67,5                                                   | 748                                                      | 2,78                                                     | MKH 2125            | 20,8                       | 132S4          |
|                                                     | 68,6                                                   | 735                                                      | 3,05                                                     | MKH 2140            | 20,4                       | 132S4          |
|                                                     | 72,4                                                   | 697                                                      | 1,71                                                     | MKH 2100            | 12,4                       | 132MB6         |
|                                                     | 73,2                                                   | 689                                                      | 1,33                                                     | MKH 2100            | 19,1                       | 132S4          |

| P <sub>1</sub><br>Giriş Gücü<br>Input Power<br>[kW] | n <sub>2</sub><br>Çıkış Devri<br>Output Speed<br>[rpm] | M <sub>2</sub><br>Çıkış Momenti<br>Output Torque<br>[Nm] | f <sub>s</sub><br>Servis<br>Faktörü<br>Service<br>Factor | Redüktör<br>Gearbox | İ<br>Tahvil Oranı<br>Ratio | Motor<br>Motor |
|-----------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|---------------------|----------------------------|----------------|
| 5,5                                                 | 89,5                                                   | 564                                                      | 2,00                                                     | MKH 2100            | 15,7                       | 132S4          |
|                                                     | 94,7                                                   | 532                                                      | 2,23                                                     | MKH 2100            | 9,50                       | 132MB6         |
|                                                     | 113                                                    | 448                                                      | 2,55                                                     | MKH 2100            | 12,4                       | 132S4          |
|                                                     | 118                                                    | 429                                                      | 2,88                                                     | MKH 2100            | 7,65                       | 132MB6         |
|                                                     | 142                                                    | 354                                                      | 2,87                                                     | MKH 2100            | 6,32                       | 132MB6         |
|                                                     | 147                                                    | 342                                                      | 3,33                                                     | MKH 2100            | 9,50                       | 132S4          |
|                                                     | 147                                                    | 342                                                      | 3,33                                                     | MKH 2100            | 9,50                       | 132S4          |
| 7,5                                                 | 7,20                                                   | 9361                                                     | 2,16                                                     | MKH 3250            | 125                        | 160 M6         |
|                                                     | 7,23                                                   | 9325                                                     | 3,18                                                     | MKH 3280            | 125                        | 160M6          |
|                                                     | 7,58                                                   | 8895                                                     | 1,74                                                     | MKH 3225            | 119                        | 160M6          |
|                                                     | 7,70                                                   | 8752                                                     | 1,22                                                     | MKH 3200            | 117                        | 160M6          |
|                                                     | 9,00                                                   | 7490                                                     | 3,39                                                     | MKH 3250            | 100                        | 160 M6         |
|                                                     | 9,15                                                   | 7365                                                     | 2,08                                                     | MKH 3225            | 98,3                       | 160M6          |
|                                                     | 9,18                                                   | 7347                                                     | 1,53                                                     | MKH 3200            | 98,1                       | 160M6          |
|                                                     | 9,26                                                   | 7276                                                     | 1,04                                                     | MKH 3180            | 97,1                       | 160M6          |
|                                                     | 10,6                                                   | 6357                                                     | 1,20                                                     | MKH 3180            | 84,9                       | 160M6          |
|                                                     | 10,7                                                   | 6326                                                     | 2,50                                                     | MKH 3225            | 84,5                       | 160M6          |
|                                                     | 10,7                                                   | 6311                                                     | 1,81                                                     | MKH 3200            | 84,3                       | 160M6          |
|                                                     | 10,7                                                   | 6289                                                     | 3,38                                                     | MKH 3250            | 84,0                       | 160 M6         |
|                                                     | 11,2                                                   | 6018                                                     | 3,23                                                     | MKH 3250            | 125                        | 132 MA4        |
|                                                     | 11,3                                                   | 5991                                                     | 3,16                                                     | MKH 3250            | 80,0                       | 160 M6         |
|                                                     | 11,8                                                   | 5718                                                     | 2,60                                                     | MKH 3225            | 119                        | 132MA4         |
|                                                     | 11,9                                                   | 5657                                                     | 0,92                                                     | MKH 3160            | 75,5                       | 160M6          |
|                                                     | 12,0                                                   | 5627                                                     | 1,30                                                     | MKH 3180            | 117                        | 132MA4         |
|                                                     | 12,0                                                   | 5627                                                     | 1,83                                                     | MKH 3200            | 117                        | 132MA4         |
|                                                     | 12,0                                                   | 5604                                                     | 2,78                                                     | MKH 3225            | 74,8                       | 160M6          |
|                                                     | 12,1                                                   | 5567                                                     | 1,37                                                     | MKH 3180            | 74,3                       | 160M6          |
|                                                     | 12,2                                                   | 5514                                                     | 1,94                                                     | MKH 3200            | 73,6                       | 160M6          |
|                                                     | 14,1                                                   | 4794                                                     | 5,23                                                     | MKH 3250            | 64,0                       | 160 M6         |
|                                                     | 14,2                                                   | 4735                                                     | 3,12                                                     | MKH 3225            | 98,3                       | 132MA4         |
|                                                     | 14,3                                                   | 4723                                                     | 2,28                                                     | MKH 3200            | 98,1                       | 132MA4         |
|                                                     | 14,4                                                   | 4677                                                     | 1,56                                                     | MKH 3180            | 97,1                       | 132MA4         |
|                                                     | 14,4                                                   | 4666                                                     | 1,16                                                     | MKH 3160            | 96,9                       | 132MA4         |
|                                                     | 14,5                                                   | 4640                                                     | 3,33                                                     | MKH 3225            | 61,9                       | 160M6          |
|                                                     | 14,6                                                   | 4629                                                     | 2,43                                                     | MKH 3200            | 61,8                       | 160M6          |
|                                                     | 14,6                                                   | 4628                                                     | 1,65                                                     | MKH 3180            | 61,8                       | 160M6          |
|                                                     | 14,6                                                   | 4616                                                     | 1,25                                                     | MKH 3160            | 61,6                       | 160M6          |
|                                                     | 16,5                                                   | 4087                                                     | 1,79                                                     | MKH 3180            | 84,9                       | 132MA4         |
|                                                     | 16,5                                                   | 4077                                                     | 1,35                                                     | MKH 3160            | 84,7                       | 132MA4         |
|                                                     | 16,6                                                   | 4057                                                     | 2,70                                                     | MKH 3200            | 84,3                       | 132MA4         |
|                                                     | 16,7                                                   | 4043                                                     | 1,89                                                     | MKH 3180            | 54,0                       | 160M6          |
|                                                     | 16,7                                                   | 4033                                                     | 1,44                                                     | MKH 3160            | 53,8                       | 160M6          |
|                                                     | 17,0                                                   | 3976                                                     | 2,85                                                     | MKH 3200            | 53,1                       | 160M6          |
|                                                     | 18,5                                                   | 3637                                                     | 1,37                                                     | MKH 3160            | 75,5                       | 132MA4         |
|                                                     | 18,8                                                   | 3579                                                     | 2,05                                                     | MKH 3180            | 74,3                       | 132MA4         |
|                                                     | 19,0                                                   | 3545                                                     | 2,91                                                     | MKH 3200            | 73,6                       | 132MA4         |
|                                                     | 21,6                                                   | 3127                                                     | 2,44                                                     | MKH 3180            | 41,8                       | 160M6          |
|                                                     | 21,6                                                   | 3120                                                     | 1,86                                                     | MKH 3160            | 41,7                       | 160M6          |
|                                                     | 21,9                                                   | 3074                                                     | 0,98                                                     | MKH 3140            | 63,8                       | 132MA4         |
|                                                     | 22,0                                                   | 3061                                                     | 1,10                                                     | MKH 3140            | 40,9                       | 160M6          |



## MKH Performans Tabloları / Performance Tables

| P <sub>1</sub><br>Giriş Gücü<br>Input Power<br>[kW] | n <sub>2</sub><br>Çıkış Devri<br>Output Speed<br>[rpm] | M <sub>2</sub><br>Çıkış Momenti<br>Output Torque<br>[Nm] | f <sub>s</sub><br>Servis<br>Faktörü<br>Service<br>Factor | Redüktör<br>Gearbox | i<br>Tahvil Oranı<br>Ratio | Motor<br>Motor |
|-----------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|---------------------|----------------------------|----------------|
| 7,5                                                 | 22,7                                                   | 2975                                                     | 2,46                                                     | MKH 3180            | 61,8                       | 132MA4         |
|                                                     | 22,7                                                   | 2968                                                     | 1,87                                                     | MKH 3160            | 61,6                       | 132MA4         |
|                                                     | 25,9                                                   | 2599                                                     | 2,82                                                     | MKH 3180            | 54,0                       | 132MA4         |
|                                                     | 26,0                                                   | 2593                                                     | 2,16                                                     | MKH 3160            | 53,8                       | 132MA4         |
|                                                     | 27,6                                                   | 2443                                                     | 1,25                                                     | MKH 3140            | 50,7                       | 132MA4         |
|                                                     | 28,3                                                   | 2380                                                     | 3,21                                                     | MKH 3180            | 31,8                       | 160M6          |
|                                                     | 28,4                                                   | 2374                                                     | 2,43                                                     | MKH 3160            | 31,7                       | 160M6          |
|                                                     | 28,8                                                   | 2339                                                     | 1,43                                                     | MKH 3140            | 31,2                       | 160M6          |
|                                                     | 33,6                                                   | 2006                                                     | 2,78                                                     | MKH 3160            | 41,7                       | 132MA4         |
|                                                     | 34,3                                                   | 1968                                                     | 1,64                                                     | MKH 3140            | 40,9                       | 132MA4         |
|                                                     | 34,9                                                   | 1931                                                     | 1,74                                                     | MKH 3140            | 25,8                       | 160M6          |
|                                                     | 36,0                                                   | 1911                                                     | 1,36                                                     | MKH 2140            | 25,0                       | 160M6          |
|                                                     | 36,0                                                   | 1911                                                     | 2,18                                                     | MKH 2160            | 25,0                       | 160M6          |
|                                                     | 36,6                                                   | 1880                                                     | 2,99                                                     | MKH 2180            | 24,6                       | 160M6          |
|                                                     | 36,9                                                   | 1827                                                     | 3,12                                                     | MKH 3160            | 24,4                       | 160M6          |
|                                                     | 37,9                                                   | 1815                                                     | 1,16                                                     | MKH 2125            | 23,8                       | 160M6          |
|                                                     | 43,4                                                   | 1586                                                     | 1,36                                                     | MKH 2125            | 20,8                       | 160M6          |
|                                                     | 44,1                                                   | 1559                                                     | 1,50                                                     | MKH 2140            | 20,4                       | 160M6          |
|                                                     | 44,1                                                   | 1559                                                     | 2,72                                                     | MKH 2160            | 20,4                       | 160M6          |
|                                                     | 44,2                                                   | 1526                                                     | 3,63                                                     | MKH 3160            | 31,7                       | 132MA4         |
|                                                     | 44,8                                                   | 1504                                                     | 2,14                                                     | MKH 3140            | 31,2                       | 132MA4         |
|                                                     | 54,3                                                   | 1241                                                     | 2,60                                                     | MKH 3140            | 25,8                       | 132MA4         |
|                                                     | 56,0                                                   | 1228                                                     | 2,04                                                     | MKH 2140            | 25,0                       | 132MA4         |
|                                                     | 56,0                                                   | 1228                                                     | 3,26                                                     | MKH 2160            | 25,0                       | 132MA4         |
|                                                     | 56,6                                                   | 1215                                                     | 2,52                                                     | MKH 2140            | 15,9                       | 160M6          |
|                                                     | 58,9                                                   | 1167                                                     | 1,73                                                     | MKH 2125            | 23,8                       | 132MA4         |
|                                                     | 59,6                                                   | 1155                                                     | 1,90                                                     | MKH 2125            | 15,1                       | 160M6          |
|                                                     | 67,5                                                   | 1020                                                     | 2,04                                                     | MKH 2125            | 20,8                       | 132MA4         |
|                                                     | 68,2                                                   | 1009                                                     | 2,52                                                     | MKH 2125            | 13,2                       | 160M6          |
|                                                     | 68,6                                                   | 1002                                                     | 2,24                                                     | MKH 2140            | 20,4                       | 132MA4         |
|                                                     | 69,4                                                   | 991                                                      | 2,59                                                     | MKH 2140            | 13,0                       | 160M6          |
|                                                     | 73,2                                                   | 939                                                      | 0,98                                                     | MKH 2100            | 19,1                       | 132MA4         |
|                                                     | 89,5                                                   | 769                                                      | 1,46                                                     | MKH 2100            | 15,7                       | 132MA4         |
|                                                     | 89,6                                                   | 767                                                      | 3,27                                                     | MKH 2125            | 10,0                       | 160M6          |
|                                                     | 92,7                                                   | 742                                                      | 2,85                                                     | MKH 2125            | 15,1                       | 132MA4         |
|                                                     | 113                                                    | 611                                                      | 1,87                                                     | MKH 2100            | 12,4                       | 132MA4         |
|                                                     | 147                                                    | 467                                                      | 2,44                                                     | MKH 2100            | 9,50                       | 132MA4         |
|                                                     | 183                                                    | 376                                                      | 3,16                                                     | MKH 2100            | 7,65                       | 132MA4         |
|                                                     | 222                                                    | 311                                                      | 3,15                                                     | MKH 2100            | 6,32                       | 132MA4         |
| 11                                                  | 7,03                                                   | 14062                                                    | 3,22                                                     | MKH 3320            | 128                        | 160L6          |
|                                                     | 7,20                                                   | 13729                                                    | 1,47                                                     | MKH 3250            | 125                        | 160 L6         |
|                                                     | 7,23                                                   | 13677                                                    | 2,17                                                     | MKH 3280            | 125                        | 160L6          |
|                                                     | 7,58                                                   | 13046                                                    | 1,18                                                     | MKH 3225            | 119                        | 160L6          |
|                                                     | 8,92                                                   | 11080                                                    | 3,05                                                     | MKH 3280            | 101                        | 160L6          |
|                                                     | 9,00                                                   | 10986                                                    | 2,31                                                     | MKH 3250            | 100                        | 160 L6         |
|                                                     | 9,15                                                   | 10802                                                    | 1,42                                                     | MKH 3225            | 98,3                       | 160L6          |
|                                                     | 9,18                                                   | 10776                                                    | 1,04                                                     | MKH 3200            | 98,1                       | 160L6          |
|                                                     | 10,7                                                   | 9279                                                     | 1,70                                                     | MKH 3225            | 84,5                       | 160L6          |
|                                                     | 10,7                                                   | 9256                                                     | 1,23                                                     | MKH 3200            | 84,3                       | 160L6          |

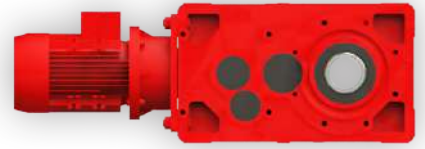
| P <sub>1</sub><br>Giriş Gücü<br>Input Power<br>[kW] | n <sub>2</sub><br>Çıkış Devri<br>Output Speed<br>[rpm] | M <sub>2</sub><br>Çıkış Momenti<br>Output Torque<br>[Nm] | f <sub>s</sub><br>Servis<br>Faktörü<br>Service<br>Factor | Redüktör<br>Gearbox | i<br>Tahvil Oranı<br>Ratio | Motor<br>Motor |
|-----------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|---------------------|----------------------------|----------------|
| 11                                                  | 10,7                                                   | 9224                                                     | 2,30                                                     | MKH 3250            | 84,0                       | 160 L6         |
|                                                     | 11,2                                                   | 8826                                                     | 2,20                                                     | MKH 3250            | 125                        | 160 M4         |
|                                                     | 11,2                                                   | 8793                                                     | 3,24                                                     | MKH 3280            | 125                        | 160M4          |
|                                                     | 11,3                                                   | 8786                                                     | 2,16                                                     | MKH 3250            | 80,0                       | 160 L6         |
|                                                     | 11,8                                                   | 8386                                                     | 1,77                                                     | MKH 3225            | 119                        | 160M4          |
|                                                     | 12,0                                                   | 8252                                                     | 1,25                                                     | MKH 3200            | 117                        | 160M4          |
|                                                     | 12,0                                                   | 8218                                                     | 1,89                                                     | MKH 3225            | 74,8                       | 160L6          |
|                                                     | 12,1                                                   | 8165                                                     | 0,93                                                     | MKH 3180            | 74,3                       | 160L6          |
|                                                     | 12,2                                                   | 8088                                                     | 1,33                                                     | MKH 3200            | 73,6                       | 160L6          |
|                                                     | 14,0                                                   | 7062                                                     | 3,45                                                     | MKH 3250            | 100                        | 160 M4         |
|                                                     | 14,1                                                   | 7031                                                     | 3,56                                                     | MKH 3250            | 64,0                       | 160 L6         |
|                                                     | 14,2                                                   | 6944                                                     | 2,12                                                     | MKH 3225            | 98,3                       | 160M4          |
|                                                     | 14,3                                                   | 6927                                                     | 1,56                                                     | MKH 3200            | 98,1                       | 160M4          |
|                                                     | 14,4                                                   | 6860                                                     | 1,06                                                     | MKH 3180            | 97,1                       | 160M4          |
|                                                     | 14,5                                                   | 6805                                                     | 2,27                                                     | MKH 3225            | 61,9                       | 160L6          |
|                                                     | 14,6                                                   | 6789                                                     | 1,66                                                     | MKH 3200            | 61,8                       | 160L6          |
|                                                     | 14,6                                                   | 6787                                                     | 1,12                                                     | MKH 3180            | 61,8                       | 160L6          |
|                                                     | 16,5                                                   | 5994                                                     | 1,22                                                     | MKH 3180            | 84,9                       | 160M4          |
|                                                     | 16,5                                                   | 5979                                                     | 0,92                                                     | MKH 3160            | 84,7                       | 160M4          |
|                                                     | 16,6                                                   | 5965                                                     | 2,55                                                     | MKH 3225            | 84,5                       | 160M4          |
|                                                     | 16,6                                                   | 5950                                                     | 1,84                                                     | MKH 3200            | 84,3                       | 160M4          |
|                                                     | 16,7                                                   | 5930                                                     | 1,29                                                     | MKH 3180            | 54,0                       | 160L6          |
|                                                     | 16,7                                                   | 5915                                                     | 0,98                                                     | MKH 3160            | 53,8                       | 160L6          |
|                                                     | 16,7                                                   | 5930                                                     | 3,45                                                     | MKH 3250            | 84,0                       | 160 M4         |
|                                                     | 16,9                                                   | 5846                                                     | 2,75                                                     | MKH 3225            | 53,2                       | 160L6          |
|                                                     | 17,0                                                   | 5831                                                     | 1,94                                                     | MKH 3200            | 53,1                       | 160L6          |
|                                                     | 17,5                                                   | 5648                                                     | 3,23                                                     | MKH 3250            | 80,0                       | 160 M4         |
|                                                     | 18,5                                                   | 5334                                                     | 0,93                                                     | MKH 3160            | 75,5                       | 160M4          |
|                                                     | 18,7                                                   | 5283                                                     | 2,83                                                     | MKH 3225            | 74,8                       | 160M4          |
|                                                     | 18,8                                                   | 5249                                                     | 1,39                                                     | MKH 3180            | 74,3                       | 160M4          |
|                                                     | 19,0                                                   | 5199                                                     | 1,98                                                     | MKH 3200            | 73,6                       | 160M4          |
|                                                     | 21,6                                                   | 4587                                                     | 1,67                                                     | MKH 3180            | 41,8                       | 160L6          |
|                                                     | 21,6                                                   | 4576                                                     | 1,27                                                     | MKH 3160            | 41,7                       | 160L6          |
|                                                     | 21,8                                                   | 4531                                                     | 2,51                                                     | MKH 3200            | 41,2                       | 160L6          |
|                                                     | 22,6                                                   | 4374                                                     | 3,40                                                     | MKH 3225            | 61,9                       | 160M4          |
|                                                     | 22,7                                                   | 4365                                                     | 2,48                                                     | MKH 3200            | 61,8                       | 160M4          |
|                                                     | 22,7                                                   | 4363                                                     | 1,68                                                     | MKH 3180            | 61,8                       | 160M4          |
|                                                     | 22,7                                                   | 4352                                                     | 1,27                                                     | MKH 3160            | 61,6                       | 160M4          |
|                                                     | 25,9                                                   | 3812                                                     | 1,93                                                     | MKH 3180            | 54,0                       | 160M4          |
|                                                     | 26,0                                                   | 3802                                                     | 1,47                                                     | MKH 3160            | 53,8                       | 160M4          |
|                                                     | 26,4                                                   | 3749                                                     | 2,90                                                     | MKH 3200            | 53,1                       | 160M4          |
|                                                     | 27,5                                                   | 3596                                                     | 3,12                                                     | MKH 3200            | 32,7                       | 160L6          |
|                                                     | 28,3                                                   | 3490                                                     | 2,19                                                     | MKH 3180            | 31,8                       | 160L6          |
|                                                     | 28,4                                                   | 3481                                                     | 1,66                                                     | MKH 3160            | 31,7                       | 160L6          |
|                                                     | 28,8                                                   | 3431                                                     | 0,98                                                     | MKH 3140            | 31,2                       | 160L6          |
|                                                     | 33,5                                                   | 2949                                                     | 2,49                                                     | MKH 3180            | 41,8                       | 160M4          |
|                                                     | 33,6                                                   | 2941                                                     | 1,90                                                     | MKH 3160            | 41,7                       | 160M4          |
|                                                     | 34,3                                                   | 2886                                                     | 1,12                                                     | MKH 3140            | 40,9                       | 160M4          |
|                                                     | 34,9                                                   | 2832                                                     | 1,18                                                     | MKH 3140            | 25,8                       | 160L6          |



| P <sub>1</sub><br>Giriş Gücü<br>Input Power<br>[kW] | n <sub>2</sub><br>Çıkış Devri<br>Output Speed<br>[rpm] | M <sub>2</sub><br>Çıkış Momenti<br>Output Torque<br>[Nm] | f <sub>s</sub><br>Servis<br>Faktörü<br>Service<br>Factor | Redüktör<br>Gearbox | i<br>Tahvil Oranı<br>Ratio | Motor<br>Motor |
|-----------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|---------------------|----------------------------|----------------|
| 11                                                  | 36,0                                                   | 2803                                                     | 0,93                                                     | MKH 2140            | 25,0                       | 160L6          |
|                                                     | 36,0                                                   | 2803                                                     | 1,48                                                     | MKH 2160            | 25,0                       | 160L6          |
|                                                     | 36,6                                                   | 2758                                                     | 2,04                                                     | MKH 2180            | 24,6                       | 160L6          |
|                                                     | 36,8                                                   | 2686                                                     | 2,84                                                     | MKH 3180            | 24,5                       | 160L6          |
|                                                     | 36,9                                                   | 2679                                                     | 2,13                                                     | MKH 3160            | 24,4                       | 160L6          |
|                                                     | 43,4                                                   | 2326                                                     | 0,93                                                     | MKH 2125            | 20,8                       | 160L6          |
|                                                     | 44,0                                                   | 2292                                                     | 2,41                                                     | MKH 2180            | 20,5                       | 160L6          |
|                                                     | 44,1                                                   | 2244                                                     | 3,27                                                     | MKH 3180            | 31,8                       | 160M4          |
|                                                     | 44,1                                                   | 2287                                                     | 1,02                                                     | MKH 2140            | 20,4                       | 160L6          |
|                                                     | 44,1                                                   | 2287                                                     | 1,86                                                     | MKH 2160            | 20,4                       | 160L6          |
|                                                     | 44,2                                                   | 2238                                                     | 2,48                                                     | MKH 3160            | 31,7                       | 160M4          |
|                                                     | 44,8                                                   | 2206                                                     | 1,46                                                     | MKH 3140            | 31,2                       | 160M4          |
|                                                     | 54,3                                                   | 1821                                                     | 1,77                                                     | MKH 3140            | 25,8                       | 160M4          |
|                                                     | 56,0                                                   | 1802                                                     | 1,39                                                     | MKH 2140            | 25,0                       | 160M4          |
|                                                     | 56,0                                                   | 1802                                                     | 2,22                                                     | MKH 2160            | 25,0                       | 160M4          |
|                                                     | 56,6                                                   | 1782                                                     | 1,72                                                     | MKH 2140            | 15,9                       | 160L6          |
|                                                     | 56,9                                                   | 1773                                                     | 3,05                                                     | MKH 2180            | 24,6                       | 160M4          |
|                                                     | 57,1                                                   | 1766                                                     | 2,60                                                     | MKH 2160            | 15,8                       | 160L6          |
|                                                     | 57,4                                                   | 1722                                                     | 3,19                                                     | MKH 3160            | 24,4                       | 160M4          |
|                                                     | 58,9                                                   | 1712                                                     | 1,18                                                     | MKH 2125            | 23,8                       | 160M4          |
|                                                     | 59,6                                                   | 1694                                                     | 1,30                                                     | MKH 2125            | 15,1                       | 160L6          |
|                                                     | 67,5                                                   | 1495                                                     | 1,39                                                     | MKH 2125            | 20,8                       | 160M4          |
|                                                     | 68,2                                                   | 1480                                                     | 1,72                                                     | MKH 2125            | 13,2                       | 160L6          |
|                                                     | 68,6                                                   | 1470                                                     | 1,53                                                     | MKH 2140            | 20,4                       | 160M4          |
|                                                     | 68,6                                                   | 1470                                                     | 2,78                                                     | MKH 2160            | 20,4                       | 160M4          |
|                                                     | 69,4                                                   | 1454                                                     | 1,76                                                     | MKH 2140            | 13,0                       | 160L6          |
|                                                     | 88,1                                                   | 1146                                                     | 2,57                                                     | MKH 2140            | 15,9                       | 160M4          |
|                                                     | 89,6                                                   | 1125                                                     | 2,23                                                     | MKH 2125            | 10,0                       | 160L6          |
|                                                     | 91,2                                                   | 1106                                                     | 2,88                                                     | MKH 2140            | 9,87                       | 160L6          |
|                                                     | 92,7                                                   | 1089                                                     | 1,94                                                     | MKH 2125            | 15,1                       | 160M4          |
|                                                     | 106                                                    | 951                                                      | 2,57                                                     | MKH 2125            | 13,2                       | 160M4          |
|                                                     | 108                                                    | 935                                                      | 2,64                                                     | MKH 2140            | 13,0                       | 160M4          |
|                                                     | 116                                                    | 871                                                      | 2,78                                                     | MKH 2125            | 7,77                       | 160L6          |
|                                                     | 121                                                    | 835                                                      | 3,16                                                     | MKH 2140            | 7,45                       | 160L6          |
|                                                     | 139                                                    | 724                                                      | 3,33                                                     | MKH 2125            | 10,0                       | 160M4          |
|                                                     | 151                                                    | 670                                                      | 3,15                                                     | MKH 2125            | 5,98                       | 160L6          |
| 15                                                  | 7,03                                                   | 19175                                                    | 2,36                                                     | MKH 3320            | 128                        | 180L6          |
|                                                     | 7,20                                                   | 18721                                                    | 1,08                                                     | MKH 3250            | 125                        | 180 L6         |
|                                                     | 7,23                                                   | 18651                                                    | 1,59                                                     | MKH 3280            | 125                        | 180L6          |
|                                                     | 8,53                                                   | 15805                                                    | 3,29                                                     | MKH 3320            | 106                        | 180L6          |
|                                                     | 8,92                                                   | 15109                                                    | 2,24                                                     | MKH 3280            | 101                        | 180L6          |
|                                                     | 9,00                                                   | 14981                                                    | 1,69                                                     | MKH 3250            | 100                        | 180 L6         |
|                                                     | 9,15                                                   | 14730                                                    | 1,04                                                     | MKH 3225            | 98,3                       | 180L6          |
|                                                     | 10,7                                                   | 12653                                                    | 1,25                                                     | MKH 3225            | 84,5                       | 180L6          |
|                                                     | 10,7                                                   | 12621                                                    | 0,90                                                     | MKH 3200            | 84,3                       | 180L6          |
|                                                     | 10,7                                                   | 12578                                                    | 1,69                                                     | MKH 3250            | 84,0                       | 180 L6         |
|                                                     | 10,7                                                   | 12584                                                    | 2,44                                                     | MKH 3280            | 84,0                       | 180L6          |
|                                                     | 10,9                                                   | 12327                                                    | 3,53                                                     | MKH 3320            | 128                        | 160L4          |
|                                                     | 11,2                                                   | 12035                                                    | 1,61                                                     | MKH 3250            | 125                        | 160 L4         |

| P <sub>1</sub><br>Giriş Gücü<br>Input Power<br>[kW] | n <sub>2</sub><br>Çıkış Devri<br>Output Speed<br>[rpm] | M <sub>2</sub><br>Çıkış Momenti<br>Output Torque<br>[Nm] | f <sub>s</sub><br>Servis<br>Faktörü<br>Service<br>Factor | Redüktör<br>Gearbox | i<br>Tahvil Oranı<br>Ratio | Motor<br>Motor |
|-----------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|---------------------|----------------------------|----------------|
| 15                                                  | 11,2                                                   | 11990                                                    | 2,38                                                     | MKH 3280            | 125                        | 160L4          |
|                                                     | 11,3                                                   | 11982                                                    | 1,58                                                     | MKH 3250            | 80,0                       | 180 L6         |
|                                                     | 11,3                                                   | 11940                                                    | 3,01                                                     | MKH 3280            | 79,7                       | 180L6          |
|                                                     | 11,8                                                   | 11436                                                    | 1,30                                                     | MKH 3225            | 119                        | 160L4          |
|                                                     | 12,0                                                   | 11253                                                    | 0,91                                                     | MKH 3200            | 117                        | 160L4          |
|                                                     | 12,0                                                   | 11207                                                    | 1,39                                                     | MKH 3225            | 74,8                       | 180L6          |
|                                                     | 12,2                                                   | 11029                                                    | 0,97                                                     | MKH 3200            | 73,6                       | 180L6          |
|                                                     | 13,9                                                   | 9713                                                     | 3,35                                                     | MKH 3280            | 101                        | 160L4          |
|                                                     | 14,0                                                   | 9630                                                     | 2,53                                                     | MKH 3250            | 100                        | 160 L4         |
|                                                     | 14,1                                                   | 9588                                                     | 2,61                                                     | MKH 3250            | 64,0                       | 180 L6         |
|                                                     | 14,2                                                   | 9470                                                     | 1,56                                                     | MKH 3225            | 98,3                       | 160L4          |
|                                                     | 14,3                                                   | 9446                                                     | 1,14                                                     | MKH 3200            | 98,1                       | 160L4          |
|                                                     | 14,5                                                   | 9279                                                     | 1,67                                                     | MKH 3225            | 61,9                       | 180L6          |
|                                                     | 14,6                                                   | 9258                                                     | 1,21                                                     | MKH 3200            | 61,8                       | 180L6          |
|                                                     | 16,5                                                   | 8173                                                     | 0,90                                                     | MKH 3180            | 84,9                       | 160L4          |
|                                                     | 16,6                                                   | 8134                                                     | 1,87                                                     | MKH 3225            | 84,5                       | 160L4          |
|                                                     | 16,6                                                   | 8114                                                     | 1,35                                                     | MKH 3200            | 84,3                       | 160L4          |
|                                                     | 16,7                                                   | 8087                                                     | 0,94                                                     | MKH 3180            | 54,0                       | 180L6          |
|                                                     | 16,7                                                   | 8086                                                     | 2,53                                                     | MKH 3250            | 84,0                       | 160 L4         |
|                                                     | 16,8                                                   | 8049                                                     | 3,17                                                     | MKH 3250            | 53,7                       | 180 L6         |
|                                                     | 16,9                                                   | 7971                                                     | 2,01                                                     | MKH 3225            | 53,2                       | 180L6          |
|                                                     | 17,0                                                   | 7952                                                     | 1,42                                                     | MKH 3200            | 53,1                       | 180L6          |
|                                                     | 17,5                                                   | 7702                                                     | 2,37                                                     | MKH 3250            | 80,0                       | 160 L4         |
|                                                     | 18,7                                                   | 7205                                                     | 2,08                                                     | MKH 3225            | 74,8                       | 160L4          |
|                                                     | 18,8                                                   | 7157                                                     | 1,02                                                     | MKH 3180            | 74,3                       | 160L4          |
|                                                     | 19,0                                                   | 7090                                                     | 1,45                                                     | MKH 3200            | 73,6                       | 160L4          |
|                                                     | 21,6                                                   | 6254                                                     | 1,22                                                     | MKH 3180            | 41,8                       | 180L6          |
|                                                     | 21,6                                                   | 6239                                                     | 0,93                                                     | MKH 3160            | 41,7                       | 180L6          |
|                                                     | 21,6                                                   | 6232                                                     | 3,87                                                     | MKH 3250            | 41,6                       | 180 L6         |
|                                                     | 21,8                                                   | 6193                                                     | 2,60                                                     | MKH 3225            | 41,3                       | 180L6          |
|                                                     | 21,8                                                   | 6178                                                     | 1,84                                                     | MKH 3200            | 41,2                       | 180L6          |
|                                                     | 21,9                                                   | 6163                                                     | 3,91                                                     | MKH 3250            | 64,0                       | 160 L4         |
|                                                     | 22,6                                                   | 5965                                                     | 2,49                                                     | MKH 3225            | 61,9                       | 160L4          |
|                                                     | 22,7                                                   | 5952                                                     | 1,82                                                     | MKH 3200            | 61,8                       | 160L4          |
|                                                     | 22,7                                                   | 5950                                                     | 1,23                                                     | MKH 3180            | 61,8                       | 160L4          |
|                                                     | 22,7                                                   | 5935                                                     | 0,93                                                     | MKH 3160            | 61,6                       | 160L4          |
|                                                     | 25,9                                                   | 5198                                                     | 1,41                                                     | MKH 3180            | 54,0                       | 160L4          |
|                                                     | 26,0                                                   | 5185                                                     | 1,08                                                     | MKH 3160            | 53,8                       | 160L4          |
|                                                     | 26,3                                                   | 5124                                                     | 3,01                                                     | MKH 3225            | 53,2                       | 160L4          |
|                                                     | 26,4                                                   | 5112                                                     | 2,13                                                     | MKH 3200            | 53,1                       | 160L4          |
|                                                     | 27,4                                                   | 4915                                                     | 2,99                                                     | MKH 3225            | 32,8                       | 180L6          |
|                                                     | 27,5                                                   | 4903                                                     | 2,29                                                     | MKH 3200            | 32,7                       | 180L6          |
|                                                     | 28,3                                                   | 4759                                                     | 1,60                                                     | MKH 3180            | 31,8                       | 180L6          |
|                                                     | 28,4                                                   | 4747                                                     | 1,21                                                     | MKH 3160            | 31,7                       | 180L6          |
|                                                     | 33,5                                                   | 4021                                                     | 1,83                                                     | MKH 3180            | 41,8                       | 160L4          |
|                                                     | 33,6                                                   | 4011                                                     | 1,39                                                     | MKH 3160            | 41,7                       | 160L4          |
|                                                     | 33,9                                                   | 3976                                                     | 2,85                                                     | MKH 3200            | 26,5                       | 180L6          |
|                                                     | 33,9                                                   | 3972                                                     | 2,75                                                     | MKH 3200            | 41,2                       | 160L4          |
|                                                     | 36,0                                                   | 3822                                                     | 1,09                                                     | MKH 2160            | 25,0                       | 180L6          |





## MKH Performans Tabloları / Performance Tables

| P <sub>1</sub><br>Giriş Gücü<br>Input Power<br>[kW] | n <sub>2</sub><br>Çıkış Devri<br>Output Speed<br>[rpm] | M <sub>2</sub><br>Çıkış Momenti<br>Output Torque<br>[Nm] | f <sub>s</sub><br>Servis<br>Faktörü<br>Service<br>Factor | Redüktör<br>Gearbox | i<br>Tahvil Oranı<br>Ratio | Motor<br>Motor |
|-----------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|---------------------|----------------------------|----------------|
| 15                                                  | 36,6                                                   | 3760                                                     | 1,50                                                     | MKH 2180            | 24,6                       | 180L6          |
|                                                     | 36,6                                                   | 3760                                                     | 2,04                                                     | MKH 2200            | 24,6                       | 180L6          |
|                                                     | 36,8                                                   | 3663                                                     | 2,08                                                     | MKH 3180            | 24,5                       | 180L6          |
|                                                     | 36,9                                                   | 3654                                                     | 1,56                                                     | MKH 3160            | 24,4                       | 180L6          |
|                                                     | 42,8                                                   | 3152                                                     | 3,43                                                     | MKH 3200            | 32,7                       | 160L4          |
|                                                     | 43,6                                                   | 3157                                                     | 2,38                                                     | MKH 2200            | 20,7                       | 180L6          |
|                                                     | 44,0                                                   | 3126                                                     | 1,77                                                     | MKH 2180            | 20,5                       | 180L6          |
|                                                     | 44,1                                                   | 3060                                                     | 2,40                                                     | MKH 3180            | 31,8                       | 160L4          |
|                                                     | 44,1                                                   | 3118                                                     | 1,36                                                     | MKH 2160            | 20,4                       | 180L6          |
|                                                     | 44,2                                                   | 3052                                                     | 1,82                                                     | MKH 3160            | 31,7                       | 160L4          |
|                                                     | 44,8                                                   | 3008                                                     | 1,07                                                     | MKH 3140            | 31,2                       | 160L4          |
|                                                     | 54,3                                                   | 2483                                                     | 1,30                                                     | MKH 3140            | 25,8                       | 160L4          |
|                                                     | 56,0                                                   | 2457                                                     | 1,02                                                     | MKH 2140            | 25,0                       | 160L4          |
|                                                     | 56,0                                                   | 2457                                                     | 1,63                                                     | MKH 2160            | 25,0                       | 160L4          |
|                                                     | 56,6                                                   | 2431                                                     | 1,26                                                     | MKH 2140            | 15,9                       | 180L6          |
|                                                     | 56,9                                                   | 2417                                                     | 2,24                                                     | MKH 2180            | 24,6                       | 160L4          |
|                                                     | 57,1                                                   | 2408                                                     | 1,90                                                     | MKH 2160            | 15,8                       | 180L6          |
|                                                     | 57,3                                                   | 2355                                                     | 3,11                                                     | MKH 3180            | 24,5                       | 160L4          |
|                                                     | 57,4                                                   | 2349                                                     | 2,34                                                     | MKH 3160            | 24,4                       | 160L4          |
|                                                     | 58,1                                                   | 2369                                                     | 2,38                                                     | MKH 2180            | 15,5                       | 180L6          |
|                                                     | 59,6                                                   | 2310                                                     | 0,95                                                     | MKH 2125            | 15,1                       | 180L6          |
|                                                     | 67,5                                                   | 2039                                                     | 1,02                                                     | MKH 2125            | 20,8                       | 160L4          |
|                                                     | 68,2                                                   | 2018                                                     | 1,26                                                     | MKH 2125            | 13,2                       | 180L6          |
|                                                     | 68,5                                                   | 2010                                                     | 2,65                                                     | MKH 2180            | 20,5                       | 160L4          |
|                                                     | 68,6                                                   | 2005                                                     | 1,12                                                     | MKH 2140            | 20,4                       | 160L4          |
|                                                     | 68,6                                                   | 2005                                                     | 2,04                                                     | MKH 2160            | 20,4                       | 160L4          |
|                                                     | 69,4                                                   | 1983                                                     | 1,29                                                     | MKH 2140            | 13,0                       | 180L6          |
|                                                     | 69,9                                                   | 1969                                                     | 2,86                                                     | MKH 2180            | 12,9                       | 180L6          |
|                                                     | 70,0                                                   | 1964                                                     | 2,38                                                     | MKH 2160            | 12,9                       | 180L6          |
|                                                     | 88,1                                                   | 1562                                                     | 1,88                                                     | MKH 2140            | 15,9                       | 160L4          |
|                                                     | 88,2                                                   | 1559                                                     | 3,06                                                     | MKH 2160            | 10,2                       | 180L6          |
|                                                     | 88,9                                                   | 1548                                                     | 2,85                                                     | MKH 2160            | 15,8                       | 160L4          |
|                                                     | 89,6                                                   | 1535                                                     | 1,63                                                     | MKH 2125            | 10,0                       | 180L6          |
|                                                     | 91,2                                                   | 1509                                                     | 2,11                                                     | MKH 2140            | 9,87                       | 180L6          |
|                                                     | 92,7                                                   | 1485                                                     | 1,42                                                     | MKH 2125            | 15,1                       | 160L4          |
|                                                     | 106                                                    | 1297                                                     | 1,88                                                     | MKH 2125            | 13,2                       | 160L4          |
|                                                     | 108                                                    | 1275                                                     | 1,93                                                     | MKH 2140            | 13,0                       | 160L4          |
|                                                     | 109                                                    | 1263                                                     | 3,56                                                     | MKH 2160            | 12,9                       | 160L4          |
|                                                     | 116                                                    | 1188                                                     | 2,04                                                     | MKH 2125            | 7,77                       | 180L6          |
|                                                     | 121                                                    | 1139                                                     | 2,31                                                     | MKH 2140            | 7,45                       | 180L6          |
|                                                     | 139                                                    | 987                                                      | 2,44                                                     | MKH 2125            | 10,0                       | 160L4          |
|                                                     | 142                                                    | 970                                                      | 3,16                                                     | MKH 2140            | 9,87                       | 160L4          |
|                                                     | 151                                                    | 914                                                      | 2,31                                                     | MKH 2125            | 5,98                       | 180L6          |
|                                                     | 180                                                    | 764                                                      | 3,05                                                     | MKH 2125            | 7,77                       | 160L4          |
|                                                     | 188                                                    | 732                                                      | 3,46                                                     | MKH 2140            | 7,45                       | 160L4          |
|                                                     | 234                                                    | 588                                                      | 3,46                                                     | MKH 2125            | 5,98                       | 160L4          |
| 18,5                                                | 7,03                                                   | 23649                                                    | 1,91                                                     | MKH 3320            | 128                        | 200LA6         |
|                                                     | 7,13                                                   | 23335                                                    | 2,72                                                     | MKH 3360            | 126                        | 200LA6         |
|                                                     | 7,23                                                   | 23003                                                    | 1,29                                                     | MKH 3280            | 125                        | 200LA6         |
|                                                     |                                                        |                                                          |                                                          |                     |                            |                |

| P <sub>1</sub><br>Giriş Gücü<br>Input Power<br>[kW] | n <sub>2</sub><br>Çıkış Devri<br>Output Speed<br>[rpm] | M <sub>2</sub><br>Çıkış Momenti<br>Output Torque<br>[Nm] | f <sub>s</sub><br>Servis<br>Faktörü<br>Service<br>Factor | Redüktör<br>Gearbox | i<br>Tahvil Oranı<br>Ratio | Motor<br>Motor |
|-----------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|---------------------|----------------------------|----------------|
| 18,5                                                | 8,30                                                   | 20028                                                    | 3,53                                                     | MKH 3360            | 108                        | 200LA6         |
|                                                     | 8,53                                                   | 19492                                                    | 2,67                                                     | MKH 3320            | 106                        | 200LA6         |
|                                                     | 8,92                                                   | 18635                                                    | 1,81                                                     | MKH 3280            | 101                        | 200LA6         |
|                                                     | 9,00                                                   | 18476                                                    | 1,37                                                     | MKH 3250            | 100                        | 200 LA6        |
|                                                     | 10,7                                                   | 15605                                                    | 1,01                                                     | MKH 3225            | 84,5                       | 200LA6         |
|                                                     | 10,7                                                   | 15601                                                    | 3,33                                                     | MKH 3320            | 84,4                       | 200LA6         |
|                                                     | 10,7                                                   | 15513                                                    | 1,37                                                     | MKH 3250            | 84,0                       | 200 LA6        |
|                                                     | 10,7                                                   | 15520                                                    | 1,98                                                     | MKH 3280            | 84,0                       | 200LA6         |
|                                                     | 10,9                                                   | 15203                                                    | 2,86                                                     | MKH 3320            | 128                        | 180M4          |
|                                                     | 11,2                                                   | 14843                                                    | 1,31                                                     | MKH 3250            | 125                        | 180 M4         |
|                                                     | 11,2                                                   | 14787                                                    | 1,93                                                     | MKH 3280            | 125                        | 180M4          |
|                                                     | 11,3                                                   | 14777                                                    | 1,28                                                     | MKH 3250            | 80,0                       | 200 LA6        |
|                                                     | 11,3                                                   | 14725                                                    | 2,44                                                     | MKH 3280            | 79,7                       | 200LA6         |
|                                                     | 11,3                                                   | 14724                                                    | 3,07                                                     | MKH 3320            | 79,7                       | 200LA6         |
|                                                     | 11,8                                                   | 14105                                                    | 1,05                                                     | MKH 3225            | 119                        | 180M4          |
|                                                     | 12,0                                                   | 13822                                                    | 1,13                                                     | MKH 3225            | 74,8                       | 200LA6         |
|                                                     | 13,9                                                   | 11980                                                    | 2,71                                                     | MKH 3280            | 101                        | 180M4          |
|                                                     | 14,0                                                   | 11878                                                    | 2,05                                                     | MKH 3250            | 100                        | 180 M4         |
|                                                     | 14,0                                                   | 11917                                                    | 2,97                                                     | MKH 3280            | 64,5                       | 200LA6         |
|                                                     | 14,1                                                   | 11825                                                    | 2,12                                                     | MKH 3250            | 64,0                       | 200 LA6        |
|                                                     | 14,2                                                   | 11679                                                    | 1,26                                                     | MKH 3225            | 98,3                       | 180M4          |
|                                                     | 14,3                                                   | 11651                                                    | 0,93                                                     | MKH 3200            | 98,1                       | 180M4          |
|                                                     | 14,5                                                   | 11444                                                    | 1,35                                                     | MKH 3225            | 61,9                       | 200LA6         |
|                                                     | 14,6                                                   | 11418                                                    | 0,99                                                     | MKH 3200            | 61,8                       | 200LA6         |
|                                                     | 16,6                                                   | 10032                                                    | 1,52                                                     | MKH 3225            | 84,5                       | 180M4          |
|                                                     | 16,6                                                   | 10014                                                    | 3,53                                                     | MKH 3280            | 54,2                       | 200LA6         |
|                                                     | 16,6                                                   | 10007                                                    | 1,09                                                     | MKH 3200            | 84,3                       | 180M4          |
|                                                     | 16,7                                                   | 9972                                                     | 2,05                                                     | MKH 3250            | 84,0                       | 180 M4         |
|                                                     | 16,7                                                   | 9977                                                     | 2,96                                                     | MKH 3280            | 84,0                       | 180M4          |
|                                                     | 16,8                                                   | 9927                                                     | 2,57                                                     | MKH 3250            | 53,7                       | 200 LA6        |
|                                                     | 16,9                                                   | 9831                                                     | 1,63                                                     | MKH 3225            | 53,2                       | 200LA6         |
|                                                     | 17,0                                                   | 9807                                                     | 1,15                                                     | MKH 3200            | 53,1                       | 200LA6         |
|                                                     | 17,5                                                   | 9500                                                     | 1,92                                                     | MKH 3250            | 80,0                       | 180 M4         |
|                                                     | 18,7                                                   | 8886                                                     | 1,68                                                     | MKH 3225            | 74,8                       | 180M4          |
|                                                     | 19,0                                                   | 8744                                                     | 1,18                                                     | MKH 3200            | 73,6                       | 180M4          |
|                                                     | 21,6                                                   | 7714                                                     | 0,99                                                     | MKH 3180            | 41,8                       | 200LA6         |
|                                                     | 21,6                                                   | 7686                                                     | 3,14                                                     | MKH 3250            | 41,6                       | 200 LA6        |
|                                                     | 21,8                                                   | 7638                                                     | 2,11                                                     | MKH 3225            | 41,3                       | 200LA6         |
|                                                     | 21,8                                                   | 7620                                                     | 1,49                                                     | MKH 3200            | 41,2                       | 200LA6         |
|                                                     | 21,9                                                   | 7602                                                     | 3,17                                                     | MKH 3250            | 64,0                       | 180 M4         |
|                                                     | 22,6                                                   | 7357                                                     | 2,02                                                     | MKH 3225            | 61,9                       | 180M4          |
|                                                     | 22,7                                                   | 7340                                                     | 1,47                                                     | MKH 3200            | 61,8                       | 180M4          |
|                                                     | 22,7                                                   | 7338                                                     | 1,00                                                     | MKH 3180            | 61,8                       | 180M4          |
|                                                     | 25,9                                                   | 6411                                                     | 1,14                                                     | MKH 3180            | 54,0                       | 180M4          |
|                                                     | 26,1                                                   | 6382                                                     | 3,84                                                     | MKH 3250            | 53,7                       | 180 M4         |
|                                                     | 26,3                                                   | 6320                                                     | 2,44                                                     | MKH 3225            | 53,2                       | 180M4          |
|                                                     | 26,4                                                   | 6305                                                     | 1,73                                                     | MKH 3200            | 53,1                       | 180M4          |
|                                                     | 26,8                                                   | 6204                                                     | 4,13                                                     | MKH 3250            | 33,6                       | 200 LA6        |
|                                                     | 27,4                                                   | 6062                                                     | 2,42                                                     | MKH 3225            | 32,8                       | 200LA6         |

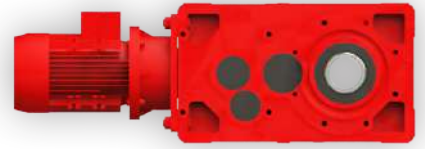




**MKH Performans Tabloları / Performance Tables**

| P <sub>1</sub><br>Giriş Gücü<br>Input Power<br>[kW] | n <sub>2</sub><br>Çıkış Devri<br>Output Speed<br>[rpm] | M <sub>2</sub><br>Çıkış Momenti<br>Output Torque<br>[Nm] | f <sub>s</sub><br>Servis<br>Faktörü<br>Service<br>Factor | Redüktör<br>Gearbox | i<br>Tahvil Oranı<br>Ratio | Motor<br>Motor |
|-----------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|---------------------|----------------------------|----------------|
| 18,5                                                | 27,5                                                   | 6047                                                     | 1,86                                                     | MKH 3200            | 32,7                       | 200LA6         |
|                                                     | 28,3                                                   | 5870                                                     | 1,30                                                     | MKH 3180            | 31,8                       | 200LA6         |
|                                                     | 28,4                                                   | 5855                                                     | 0,99                                                     | MKH 3160            | 31,7                       | 200LA6         |
|                                                     | 33,5                                                   | 4959                                                     | 1,48                                                     | MKH 3180            | 41,8                       | 180M4          |
|                                                     | 33,6                                                   | 4947                                                     | 1,13                                                     | MKH 3160            | 41,7                       | 180M4          |
|                                                     | 33,8                                                   | 4915                                                     | 2,98                                                     | MKH 3225            | 26,6                       | 200LA6         |
|                                                     | 33,9                                                   | 4910                                                     | 3,16                                                     | MKH 3225            | 41,3                       | 180M4          |
|                                                     | 33,9                                                   | 4904                                                     | 2,31                                                     | MKH 3200            | 26,5                       | 200LA6         |
|                                                     | 33,9                                                   | 4898                                                     | 2,23                                                     | MKH 3200            | 41,2                       | 180M4          |
|                                                     | 34,3                                                   | 4848                                                     | 5,35                                                     | MKH 3250            | 26,2                       | 200 LA6        |
|                                                     | 36,2                                                   | 4691                                                     | 4,13                                                     | MKH 2250            | 24,9                       | 200 LA6        |
|                                                     | 36,6                                                   | 4638                                                     | 1,21                                                     | MKH 2180            | 24,6                       | 200LA6         |
|                                                     | 36,6                                                   | 4638                                                     | 1,65                                                     | MKH 2200            | 24,6                       | 200LA6         |
|                                                     | 36,8                                                   | 4517                                                     | 1,69                                                     | MKH 3180            | 24,5                       | 200LA6         |
|                                                     | 36,9                                                   | 4506                                                     | 1,27                                                     | MKH 3160            | 24,4                       | 200LA6         |
|                                                     | 42,8                                                   | 3888                                                     | 2,78                                                     | MKH 3200            | 32,7                       | 180M4          |
|                                                     | 43,6                                                   | 3893                                                     | 1,93                                                     | MKH 2200            | 20,7                       | 200LA6         |
|                                                     | 44,0                                                   | 3855                                                     | 1,43                                                     | MKH 2180            | 20,5                       | 200LA6         |
|                                                     | 44,1                                                   | 3773                                                     | 1,94                                                     | MKH 3180            | 31,8                       | 180M4          |
|                                                     | 44,1                                                   | 3846                                                     | 1,10                                                     | MKH 2160            | 20,4                       | 200LA6         |
|                                                     | 44,2                                                   | 3764                                                     | 1,47                                                     | MKH 3160            | 31,7                       | 180M4          |
|                                                     | 52,8                                                   | 3152                                                     | 3,45                                                     | MKH 3200            | 26,5                       | 180M4          |
|                                                     | 56,0                                                   | 3030                                                     | 1,32                                                     | MKH 2160            | 25,0                       | 180M4          |
|                                                     | 56,6                                                   | 2998                                                     | 1,02                                                     | MKH 2140            | 15,9                       | 200LA6         |
|                                                     | 56,9                                                   | 2981                                                     | 1,82                                                     | MKH 2180            | 24,6                       | 180M4          |
|                                                     | 56,9                                                   | 2981                                                     | 2,48                                                     | MKH 2200            | 24,6                       | 180M4          |
|                                                     | 57,1                                                   | 2969                                                     | 1,54                                                     | MKH 2160            | 15,8                       | 200LA6         |
|                                                     | 57,2                                                   | 2967                                                     | 3,42                                                     | MKH 2200            | 15,7                       | 200LA6         |
|                                                     | 57,3                                                   | 2904                                                     | 2,53                                                     | MKH 3180            | 24,5                       | 180M4          |
|                                                     | 57,4                                                   | 2897                                                     | 1,89                                                     | MKH 3160            | 24,4                       | 180M4          |
|                                                     | 58,1                                                   | 2922                                                     | 1,93                                                     | MKH 2180            | 15,5                       | 200LA6         |
|                                                     | 67,8                                                   | 2503                                                     | 2,89                                                     | MKH 2200            | 20,7                       | 180M4          |
|                                                     | 68,5                                                   | 2479                                                     | 2,15                                                     | MKH 2180            | 20,5                       | 180M4          |
|                                                     | 68,6                                                   | 2472                                                     | 0,91                                                     | MKH 2140            | 20,4                       | 180M4          |
|                                                     | 68,6                                                   | 2472                                                     | 1,65                                                     | MKH 2160            | 20,4                       | 180M4          |
|                                                     | 69,4                                                   | 2445                                                     | 1,05                                                     | MKH 2140            | 13,0                       | 200LA6         |
|                                                     | 69,9                                                   | 2428                                                     | 2,32                                                     | MKH 2180            | 12,9                       | 200LA6         |
|                                                     | 70,0                                                   | 2423                                                     | 1,93                                                     | MKH 2160            | 12,9                       | 200LA6         |
|                                                     | 88,0                                                   | 1929                                                     | 2,98                                                     | MKH 2180            | 10,2                       | 200LA6         |
|                                                     | 88,1                                                   | 1927                                                     | 1,53                                                     | MKH 2140            | 15,9                       | 180M4          |
|                                                     | 88,2                                                   | 1923                                                     | 2,48                                                     | MKH 2160            | 10,2                       | 200LA6         |
|                                                     | 88,9                                                   | 1909                                                     | 2,31                                                     | MKH 2160            | 15,8                       | 180M4          |
|                                                     | 90,3                                                   | 1879                                                     | 2,89                                                     | MKH 2180            | 15,5                       | 180M4          |
|                                                     | 91,2                                                   | 1861                                                     | 1,71                                                     | MKH 2140            | 9,87                       | 200LA6         |
|                                                     | 92,7                                                   | 1831                                                     | 1,15                                                     | MKH 2125            | 15,1                       | 180M4          |
|                                                     | 106                                                    | 1600                                                     | 1,53                                                     | MKH 2125            | 13,2                       | 180M4          |
|                                                     | 108                                                    | 1572                                                     | 1,57                                                     | MKH 2140            | 13,0                       | 180M4          |
|                                                     | 109                                                    | 1561                                                     | 3,47                                                     | MKH 2180            | 12,9                       | 180M4          |
|                                                     | 109                                                    | 1557                                                     | 2,89                                                     | MKH 2160            | 12,9                       | 180M4          |

| P <sub>1</sub><br>Giriş Gücü<br>Input Power<br>[kW] | n <sub>2</sub><br>Çıkış Devri<br>Output Speed<br>[rpm] | M <sub>2</sub><br>Çıkış Momenti<br>Output Torque<br>[Nm] | f <sub>s</sub><br>Servis<br>Faktörü<br>Service<br>Factor | Redüktör<br>Gearbox | i<br>Tahvil Oranı<br>Ratio | Motor<br>Motor |
|-----------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|---------------------|----------------------------|----------------|
| 18,5                                                | 113                                                    | 1495                                                     | 2,92                                                     | MKH 2160            | 7,93                       | 200LA6         |
|                                                     | 121                                                    | 1405                                                     | 1,88                                                     | MKH 2140            | 7,45                       | 200LA6         |
|                                                     | 139                                                    | 1217                                                     | 1,98                                                     | MKH 2125            | 10,0                       | 180M4          |
|                                                     | 140                                                    | 1212                                                     | 3,03                                                     | MKH 2160            | 6,43                       | 200LA6         |
|                                                     | 142                                                    | 1196                                                     | 2,56                                                     | MKH 2140            | 9,87                       | 180M4          |
|                                                     | 180                                                    | 942                                                      | 2,47                                                     | MKH 2125            | 7,77                       | 180M4          |
|                                                     | 188                                                    | 903                                                      | 2,81                                                     | MKH 2140            | 7,45                       | 180M4          |
|                                                     | 234                                                    | 725                                                      | 2,80                                                     | MKH 2125            | 5,98                       | 180M4          |
|                                                     | 7,03                                                   | 28124                                                    | 1,61                                                     | MKH 3320            | 128                        | 200LB6         |
|                                                     | 7,13                                                   | 27750                                                    | 2,29                                                     | MKH 3360            | 126                        | 200LB6         |
| 22                                                  | 7,23                                                   | 27355                                                    | 1,08                                                     | MKH 3280            | 125                        | 200LB6         |
|                                                     | 8,30                                                   | 23817                                                    | 2,97                                                     | MKH 3360            | 108                        | 200LB6         |
|                                                     | 8,53                                                   | 23180                                                    | 2,24                                                     | MKH 3320            | 106                        | 200LB6         |
|                                                     | 8,92                                                   | 22161                                                    | 1,53                                                     | MKH 3280            | 101                        | 200LB6         |
|                                                     | 9,00                                                   | 21972                                                    | 1,15                                                     | MKH 3250            | 100                        | 200 LB6        |
|                                                     | 10,7                                                   | 18553                                                    | 2,80                                                     | MKH 3320            | 84,4                       | 200LB6         |
|                                                     | 10,7                                                   | 18447                                                    | 1,15                                                     | MKH 3250            | 84,0                       | 200 LB6        |
|                                                     | 10,7                                                   | 18456                                                    | 1,66                                                     | MKH 3280            | 84,0                       | 200LB6         |
|                                                     | 10,9                                                   | 18079                                                    | 2,41                                                     | MKH 3320            | 128                        | 180L4          |
|                                                     | 11,2                                                   | 17652                                                    | 1,10                                                     | MKH 3250            | 125                        | 180 L4         |
|                                                     | 11,2                                                   | 17585                                                    | 1,62                                                     | MKH 3280            | 125                        | 180L4          |
|                                                     | 11,3                                                   | 17573                                                    | 1,08                                                     | MKH 3250            | 80,0                       | 200 LB6        |
|                                                     | 11,3                                                   | 17511                                                    | 2,05                                                     | MKH 3280            | 79,7                       | 200LB6         |
|                                                     | 11,3                                                   | 17509                                                    | 2,58                                                     | MKH 3320            | 79,7                       | 200LB6         |
|                                                     | 12,0                                                   | 16437                                                    | 0,95                                                     | MKH 3225            | 74,8                       | 200LB6         |
|                                                     | 13,3                                                   | 14901                                                    | 3,36                                                     | MKH 3320            | 106                        | 180L4          |
|                                                     | 13,9                                                   | 14246                                                    | 2,28                                                     | MKH 3280            | 101                        | 180L4          |
|                                                     | 14,0                                                   | 14125                                                    | 1,73                                                     | MKH 3250            | 100                        | 180 L4         |
|                                                     | 14,0                                                   | 14172                                                    | 2,50                                                     | MKH 3280            | 64,5                       | 200LB6         |
|                                                     | 14,1                                                   | 14062                                                    | 1,78                                                     | MKH 3250            | 64,0                       | 200 LB6        |
|                                                     | 14,2                                                   | 13889                                                    | 1,06                                                     | MKH 3225            | 98,3                       | 180L4          |
|                                                     | 14,5                                                   | 13609                                                    | 1,14                                                     | MKH 3225            | 61,9                       | 200LB6         |
|                                                     | 16,6                                                   | 11930                                                    | 1,27                                                     | MKH 3225            | 84,5                       | 180L4          |
|                                                     | 16,6                                                   | 11909                                                    | 2,97                                                     | MKH 3280            | 54,2                       | 200LB6         |
|                                                     | 16,6                                                   | 11900                                                    | 0,92                                                     | MKH 3200            | 84,3                       | 180L4          |
|                                                     | 16,7                                                   | 11859                                                    | 1,72                                                     | MKH 3250            | 84,0                       | 180 L4         |
|                                                     | 16,7                                                   | 11865                                                    | 2,49                                                     | MKH 3280            | 84,0                       | 180L4          |
|                                                     | 16,8                                                   | 11805                                                    | 2,16                                                     | MKH 3250            | 53,7                       | 200 LB6        |
|                                                     | 16,9                                                   | 11691                                                    | 1,37                                                     | MKH 3225            | 53,2                       | 200LB6         |
|                                                     | 17,0                                                   | 11663                                                    | 0,97                                                     | MKH 3200            | 53,1                       | 200LB6         |
|                                                     | 17,5                                                   | 11297                                                    | 1,61                                                     | MKH 3250            | 80,0                       | 180 L4         |
|                                                     | 17,6                                                   | 11257                                                    | 3,06                                                     | MKH 3280            | 79,7                       | 180L4          |
|                                                     | 18,7                                                   | 10567                                                    | 1,42                                                     | MKH 3225            | 74,8                       | 180L4          |
|                                                     | 19,0                                                   | 10399                                                    | 0,99                                                     | MKH 3200            | 73,6                       | 180L4          |
|                                                     | 21,6                                                   | 9140                                                     | 2,64                                                     | MKH 3250            | 41,6                       | 200 LB6        |
|                                                     | 21,8                                                   | 9083                                                     | 1,77                                                     | MKH 3225            | 41,3                       | 200LB6         |
|                                                     | 21,8                                                   | 9061                                                     | 1,25                                                     | MKH 3200            | 41,2                       | 200LB6         |
|                                                     | 21,9                                                   | 9040                                                     | 2,67                                                     | MKH 3250            | 64,0                       | 180 L4         |
|                                                     | 22,6                                                   | 8749                                                     | 1,70                                                     | MKH 3225            | 61,9                       | 180L4          |



## MKH Performans Tabloları / Performance Tables

| P <sub>1</sub><br>Giriş Gücü<br>Input Power<br>[kW] | n <sub>2</sub><br>Çıkış Devri<br>Output Speed<br>[rpm] | M <sub>2</sub><br>Çıkış Momenti<br>Output Torque<br>[Nm] | f <sub>s</sub><br>Servis<br>Faktörü<br>Service<br>Factor | Redüktör<br>Gearbox | i<br>Tahvil Oranı<br>Ratio | Motor<br>Motor |
|-----------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|---------------------|----------------------------|----------------|
| 22                                                  | 22,7                                                   | 8729                                                     | 1,24                                                     | MKH 3200            | 61,8                       | 180L4          |
|                                                     | 25,9                                                   | 7624                                                     | 0,96                                                     | MKH 3180            | 54,0                       | 180L4          |
|                                                     | 26,1                                                   | 7589                                                     | 3,23                                                     | MKH 3250            | 53,7                       | 180 L4         |
|                                                     | 26,3                                                   | 7516                                                     | 2,05                                                     | MKH 3225            | 53,2                       | 180L4          |
|                                                     | 26,4                                                   | 7497                                                     | 1,45                                                     | MKH 3200            | 53,1                       | 180L4          |
|                                                     | 26,8                                                   | 7378                                                     | 3,48                                                     | MKH 3250            | 33,6                       | 200 LB6        |
|                                                     | 27,4                                                   | 7209                                                     | 2,04                                                     | MKH 3225            | 32,8                       | 200LB6         |
|                                                     | 27,5                                                   | 7191                                                     | 1,56                                                     | MKH 3200            | 32,7                       | 200LB6         |
|                                                     | 28,3                                                   | 6980                                                     | 1,09                                                     | MKH 3180            | 31,8                       | 200LB6         |
|                                                     | 33,5                                                   | 5897                                                     | 1,25                                                     | MKH 3180            | 41,8                       | 180L4          |
|                                                     | 33,6                                                   | 5883                                                     | 0,95                                                     | MKH 3160            | 41,7                       | 180L4          |
|                                                     | 33,7                                                   | 5876                                                     | 3,94                                                     | MKH 3250            | 41,6                       | 180 L4         |
|                                                     | 33,8                                                   | 5844                                                     | 2,51                                                     | MKH 3225            | 26,6                       | 200LB6         |
|                                                     | 33,9                                                   | 5839                                                     | 2,65                                                     | MKH 3225            | 41,3                       | 180L4          |
|                                                     | 33,9                                                   | 5831                                                     | 1,94                                                     | MKH 3200            | 26,5                       | 200LB6         |
|                                                     | 33,9                                                   | 5825                                                     | 1,88                                                     | MKH 3200            | 41,2                       | 180L4          |
|                                                     | 34,3                                                   | 5765                                                     | 4,50                                                     | MKH 3250            | 26,2                       | 200 LB6        |
|                                                     | 36,2                                                   | 5578                                                     | 3,48                                                     | MKH 2250            | 24,9                       | 200 LB6        |
|                                                     | 36,6                                                   | 5515                                                     | 1,02                                                     | MKH 2180            | 24,6                       | 200LB6         |
|                                                     | 36,6                                                   | 5515                                                     | 1,39                                                     | MKH 2200            | 24,6                       | 200LB6         |
|                                                     | 36,8                                                   | 5372                                                     | 1,42                                                     | MKH 3180            | 24,5                       | 200LB6         |
|                                                     | 36,9                                                   | 5359                                                     | 1,06                                                     | MKH 3160            | 24,4                       | 200LB6         |
|                                                     | 42,7                                                   | 4634                                                     | 3,04                                                     | MKH 3225            | 32,8                       | 180L4          |
|                                                     | 42,8                                                   | 4623                                                     | 2,34                                                     | MKH 3200            | 32,7                       | 180L4          |
|                                                     | 43,6                                                   | 4630                                                     | 1,62                                                     | MKH 2200            | 20,7                       | 200LB6         |
|                                                     | 44,0                                                   | 4585                                                     | 1,21                                                     | MKH 2180            | 20,5                       | 200LB6         |
|                                                     | 44,1                                                   | 4487                                                     | 1,64                                                     | MKH 3180            | 31,8                       | 180L4          |
|                                                     | 44,1                                                   | 4574                                                     | 0,93                                                     | MKH 2160            | 20,4                       | 200LB6         |
|                                                     | 44,2                                                   | 4476                                                     | 1,24                                                     | MKH 3160            | 31,7                       | 180L4          |
|                                                     | 52,8                                                   | 3749                                                     | 2,90                                                     | MKH 3200            | 26,5                       | 180L4          |
|                                                     | 56,0                                                   | 3603                                                     | 1,11                                                     | MKH 2160            | 25,0                       | 180L4          |
|                                                     | 56,9                                                   | 3546                                                     | 1,53                                                     | MKH 2180            | 24,6                       | 180L4          |
|                                                     | 56,9                                                   | 3546                                                     | 2,08                                                     | MKH 2200            | 24,6                       | 180L4          |
|                                                     | 57,1                                                   | 3531                                                     | 1,30                                                     | MKH 2160            | 15,8                       | 200LB6         |
|                                                     | 57,2                                                   | 3529                                                     | 2,88                                                     | MKH 2200            | 15,7                       | 200LB6         |
|                                                     | 57,3                                                   | 3453                                                     | 2,12                                                     | MKH 3180            | 24,5                       | 180L4          |
|                                                     | 57,4                                                   | 3445                                                     | 1,59                                                     | MKH 3160            | 24,4                       | 180L4          |
|                                                     | 58,1                                                   | 3475                                                     | 1,62                                                     | MKH 2180            | 15,5                       | 200LB6         |
|                                                     | 67,8                                                   | 2976                                                     | 2,43                                                     | MKH 2200            | 20,7                       | 180L4          |
|                                                     | 68,5                                                   | 2947                                                     | 1,80                                                     | MKH 2180            | 20,5                       | 180L4          |
|                                                     | 68,6                                                   | 2940                                                     | 1,39                                                     | MKH 2160            | 20,4                       | 180L4          |
|                                                     | 69,9                                                   | 2888                                                     | 1,95                                                     | MKH 2180            | 12,9                       | 200LB6         |
|                                                     | 70,0                                                   | 2881                                                     | 1,62                                                     | MKH 2160            | 12,9                       | 200LB6         |
|                                                     | 88,0                                                   | 2294                                                     | 2,50                                                     | MKH 2180            | 10,2                       | 200LB6         |
|                                                     | 88,1                                                   | 2292                                                     | 1,28                                                     | MKH 2140            | 15,9                       | 180L4          |
|                                                     | 88,2                                                   | 2287                                                     | 2,09                                                     | MKH 2160            | 10,2                       | 200LB6         |
|                                                     | 88,9                                                   | 2270                                                     | 1,94                                                     | MKH 2160            | 15,8                       | 180L4          |
|                                                     | 90,3                                                   | 2234                                                     | 2,43                                                     | MKH 2180            | 15,5                       | 180L4          |
|                                                     | 91,2                                                   | 2213                                                     | 1,44                                                     | MKH 2140            | 9,87                       | 200LB6         |

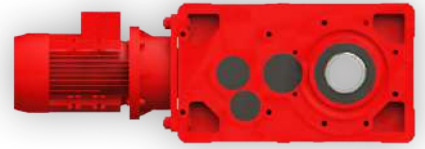
| P <sub>1</sub><br>Giriş Gücü<br>Input Power<br>[kW] | n <sub>2</sub><br>Çıkış Devri<br>Output Speed<br>[rpm] | M <sub>2</sub><br>Çıkış Momenti<br>Output Torque<br>[Nm] | f <sub>s</sub><br>Servis<br>Faktörü<br>Service<br>Factor | Redüktör<br>Gearbox | i<br>Tahvil Oranı<br>Ratio | Motor<br>Motor |
|-----------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|---------------------|----------------------------|----------------|
| 22                                                  | 92,7                                                   | 2178                                                     | 0,97                                                     | MKH 2125            | 15,1                       | 180L4          |
|                                                     | 106                                                    | 1902                                                     | 1,28                                                     | MKH 2125            | 13,2                       | 180L4          |
|                                                     | 108                                                    | 1869                                                     | 1,32                                                     | MKH 2140            | 13,0                       | 180L4          |
|                                                     | 109                                                    | 1856                                                     | 2,91                                                     | MKH 2180            | 12,9                       | 180L4          |
|                                                     | 109                                                    | 1852                                                     | 2,43                                                     | MKH 2160            | 12,9                       | 180L4          |
|                                                     | 113                                                    | 1778                                                     | 2,46                                                     | MKH 2160            | 7,93                       | 200LB6         |
|                                                     | 117                                                    | 1722                                                     | 3,13                                                     | MKH 2180            | 7,68                       | 200LB6         |
|                                                     | 121                                                    | 1670                                                     | 1,58                                                     | MKH 2140            | 7,45                       | 200LB6         |
|                                                     | 137                                                    | 1470                                                     | 3,12                                                     | MKH 2160            | 10,2                       | 180L4          |
|                                                     | 139                                                    | 1447                                                     | 1,67                                                     | MKH 2125            | 10,0                       | 180L4          |
|                                                     | 140                                                    | 1442                                                     | 2,55                                                     | MKH 2160            | 6,43                       | 200LB6         |
|                                                     | 142                                                    | 1423                                                     | 2,15                                                     | MKH 2140            | 9,87                       | 180L4          |
|                                                     | 180                                                    | 1120                                                     | 2,08                                                     | MKH 2125            | 7,77                       | 180L4          |
|                                                     | 188                                                    | 1074                                                     | 2,36                                                     | MKH 2140            | 7,45                       | 180L4          |
|                                                     | 234                                                    | 862                                                      | 2,36                                                     | MKH 2125            | 5,98                       | 180L4          |
|                                                     | 7,03                                                   | 38350                                                    | 1,18                                                     | MKH 3320            | 128                        | 225M6          |
|                                                     | 7,13                                                   | 37841                                                    | 1,68                                                     | MKH 3360            | 126                        | 225M6          |
|                                                     | 8,30                                                   | 32478                                                    | 2,18                                                     | MKH 3360            | 108                        | 225M6          |
|                                                     | 8,53                                                   | 31609                                                    | 1,65                                                     | MKH 3320            | 106                        | 225M6          |
|                                                     | 8,92                                                   | 30219                                                    | 1,12                                                     | MKH 3280            | 101                        | 225M6          |
|                                                     | 9,00                                                   | 29961                                                    | 0,85                                                     | MKH 3250            | 100                        | 225 M6         |
|                                                     | 10,4                                                   | 25982                                                    | 2,40                                                     | MKH 3360            | 86,7                       | 225M6          |
| 30                                                  | 10,7                                                   | 25155                                                    | 0,84                                                     | MKH 3250            | 84,0                       | 225 M6         |
|                                                     | 10,7                                                   | 25299                                                    | 2,06                                                     | MKH 3320            | 84,4                       | 225M6          |
|                                                     | 10,7                                                   | 25167                                                    | 1,22                                                     | MKH 3280            | 84,0                       | 225M6          |
|                                                     | 10,9                                                   | 24654                                                    | 1,76                                                     | MKH 3320            | 128                        | 200L4          |
|                                                     | 11,1                                                   | 24326                                                    | 2,51                                                     | MKH 3360            | 126                        | 200L4          |
|                                                     | 11,2                                                   | 23980                                                    | 1,19                                                     | MKH 3280            | 125                        | 200L4          |
|                                                     | 11,3                                                   | 23879                                                    | 1,50                                                     | MKH 3280            | 79,7                       | 225M6          |
|                                                     | 11,3                                                   | 23876                                                    | 1,89                                                     | MKH 3320            | 79,7                       | 225M6          |
|                                                     | 11,4                                                   | 23556                                                    | 2,87                                                     | MKH 3360            | 78,6                       | 225M6          |
|                                                     | 12,9                                                   | 20879                                                    | 3,26                                                     | MKH 3360            | 108                        | 200L4          |
|                                                     | 13,3                                                   | 20320                                                    | 2,46                                                     | MKH 3320            | 106                        | 200L4          |
|                                                     | 13,7                                                   | 19682                                                    | 2,64                                                     | MKH 3320            | 65,7                       | 225M6          |
|                                                     | 13,9                                                   | 19426                                                    | 1,67                                                     | MKH 3280            | 101                        | 200L4          |
|                                                     | 14,0                                                   | 19261                                                    | 1,27                                                     | MKH 3250            | 100                        | 200 L4         |
|                                                     | 14,0                                                   | 19325                                                    | 1,83                                                     | MKH 3280            | 64,5                       | 225M6          |
|                                                     | 14,1                                                   | 19175                                                    | 1,31                                                     | MKH 3250            | 64,0                       | 225 M6         |
|                                                     | 16,6                                                   | 16268                                                    | 0,93                                                     | MKH 3225            | 84,5                       | 200L4          |
|                                                     | 16,6                                                   | 16264                                                    | 3,07                                                     | MKH 3320            | 84,4                       | 200L4          |
|                                                     | 16,6                                                   | 16239                                                    | 2,18                                                     | MKH 3280            | 54,2                       | 225M6          |
|                                                     | 16,7                                                   | 16171                                                    | 1,26                                                     | MKH 3250            | 84,0                       | 200 L4         |
|                                                     | 16,7                                                   | 16179                                                    | 1,82                                                     | MKH 3280            | 84,0                       | 200L4          |
|                                                     | 16,8                                                   | 16098                                                    | 1,58                                                     | MKH 3250            | 53,7                       | 225 M6         |
|                                                     | 16,9                                                   | 15942                                                    | 1,01                                                     | MKH 3225            | 53,2                       | 225M6          |
|                                                     | 17,1                                                   | 15751                                                    | 3,30                                                     | MKH 3320            | 52,6                       | 225M6          |
|                                                     | 17,5                                                   | 15405                                                    | 1,18                                                     | MKH 3250            | 80,0                       | 200 L4         |
|                                                     | 17,6                                                   | 15351                                                    | 2,25                                                     | MKH 3280            | 79,7                       | 200L4          |
|                                                     | 17,6                                                   | 15349                                                    | 2,83                                                     | MKH 3320            | 79,7                       | 200L4          |



**MKH Performans Tabloları / Performance Tables**

| P <sub>1</sub><br>Giriş Gücü<br>Input Power<br>[kW] | n <sub>2</sub><br>Çıkış Devri<br>Output Speed<br>[rpm] | M <sub>2</sub><br>Çıkış Momenti<br>Output Torque<br>[Nm] | f <sub>s</sub><br>Servis<br>Faktörü<br>Service<br>Factor | Redüktör<br>Gearbox | i<br>Tahvil Oranı<br>Ratio | Motor<br>Motor |
|-----------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|---------------------|----------------------------|----------------|
| 30                                                  | 18,7                                                   | 14409                                                    | 1,04                                                     | MKH 3225            | 74,8                       | 200L4          |
|                                                     | 21,4                                                   | 12578                                                    | 2,69                                                     | MKH 3280            | 42,0                       | 225M6          |
|                                                     | 21,6                                                   | 12464                                                    | 1,93                                                     | MKH 3250            | 41,6                       | 225 M6         |
|                                                     | 21,7                                                   | 12423                                                    | 2,74                                                     | MKH 3280            | 64,5                       | 200L4          |
|                                                     | 21,8                                                   | 12386                                                    | 1,30                                                     | MKH 3225            | 41,3                       | 225M6          |
|                                                     | 21,8                                                   | 12356                                                    | 0,92                                                     | MKH 3200            | 41,2                       | 225M6          |
|                                                     | 21,9                                                   | 12327                                                    | 1,96                                                     | MKH 3250            | 64,0                       | 200 L4         |
|                                                     | 22,6                                                   | 11930                                                    | 1,25                                                     | MKH 3225            | 61,9                       | 200L4          |
|                                                     | 22,7                                                   | 11903                                                    | 0,91                                                     | MKH 3200            | 61,8                       | 200L4          |
|                                                     | 25,8                                                   | 10439                                                    | 3,26                                                     | MKH 3280            | 54,2                       | 200L4          |
|                                                     | 26,1                                                   | 10349                                                    | 2,37                                                     | MKH 3250            | 53,7                       | 200 L4         |
|                                                     | 26,3                                                   | 10249                                                    | 1,51                                                     | MKH 3225            | 53,2                       | 200L4          |
|                                                     | 26,4                                                   | 10224                                                    | 1,06                                                     | MKH 3200            | 53,1                       | 200L4          |
|                                                     | 26,8                                                   | 10061                                                    | 2,55                                                     | MKH 3250            | 33,6                       | 225 M6         |
|                                                     | 27,4                                                   | 9830                                                     | 1,49                                                     | MKH 3225            | 32,8                       | 225M6          |
|                                                     | 27,5                                                   | 9806                                                     | 1,15                                                     | MKH 3200            | 32,7                       | 225M6          |
|                                                     | 33,5                                                   | 8041                                                     | 0,91                                                     | MKH 3180            | 41,8                       | 200L4          |
|                                                     | 33,7                                                   | 8013                                                     | 2,89                                                     | MKH 3250            | 41,6                       | 200 L4         |
|                                                     | 33,8                                                   | 7970                                                     | 1,84                                                     | MKH 3225            | 26,6                       | 225M6          |
|                                                     | 33,9                                                   | 7962                                                     | 1,95                                                     | MKH 3225            | 41,3                       | 200L4          |
|                                                     | 33,9                                                   | 7952                                                     | 1,42                                                     | MKH 3200            | 26,5                       | 225M6          |
|                                                     | 33,9                                                   | 7943                                                     | 1,38                                                     | MKH 3200            | 41,2                       | 200L4          |
|                                                     | 34,3                                                   | 7862                                                     | 3,30                                                     | MKH 3250            | 26,2                       | 225 M6         |
|                                                     | 36,2                                                   | 7606                                                     | 2,55                                                     | MKH 2250            | 24,9                       | 225 M6         |
|                                                     | 36,6                                                   | 7521                                                     | 1,02                                                     | MKH 2200            | 24,6                       | 225M6          |
|                                                     | 36,8                                                   | 7326                                                     | 1,04                                                     | MKH 3180            | 24,5                       | 225M6          |
|                                                     | 41,7                                                   | 6468                                                     | 3,81                                                     | MKH 3250            | 33,6                       | 200 L4         |
|                                                     | 42,7                                                   | 6319                                                     | 2,23                                                     | MKH 3225            | 32,8                       | 200L4          |
|                                                     | 42,8                                                   | 6304                                                     | 1,71                                                     | MKH 3200            | 32,7                       | 200L4          |
|                                                     | 43,6                                                   | 6313                                                     | 1,19                                                     | MKH 2200            | 20,7                       | 225M6          |
|                                                     | 44,1                                                   | 6119                                                     | 1,20                                                     | MKH 3180            | 31,8                       | 200L4          |
|                                                     | 44,2                                                   | 6104                                                     | 0,91                                                     | MKH 3160            | 31,7                       | 200L4          |
|                                                     | 45,2                                                   | 6087                                                     | 2,91                                                     | MKH 2250            | 19,9                       | 225 M6         |
|                                                     | 52,6                                                   | 5123                                                     | 2,75                                                     | MKH 3225            | 26,6                       | 200L4          |
|                                                     | 52,8                                                   | 5112                                                     | 2,13                                                     | MKH 3200            | 26,5                       | 200L4          |
|                                                     | 53,4                                                   | 5054                                                     | 4,94                                                     | MKH 3250            | 26,2                       | 200 L4         |
|                                                     | 56,3                                                   | 4890                                                     | 3,81                                                     | MKH 2250            | 24,9                       | 200 L4         |
|                                                     | 56,9                                                   | 4835                                                     | 1,12                                                     | MKH 2180            | 24,6                       | 200L4          |
|                                                     | 56,9                                                   | 4835                                                     | 1,53                                                     | MKH 2200            | 24,6                       | 200L4          |
|                                                     | 57,1                                                   | 4815                                                     | 0,95                                                     | MKH 2160            | 15,8                       | 225M6          |
|                                                     | 57,2                                                   | 4812                                                     | 2,11                                                     | MKH 2200            | 15,7                       | 225M6          |
|                                                     | 57,3                                                   | 4709                                                     | 1,56                                                     | MKH 3180            | 24,5                       | 200L4          |
|                                                     | 57,4                                                   | 4698                                                     | 1,17                                                     | MKH 3160            | 24,4                       | 200L4          |
|                                                     | 58,1                                                   | 4739                                                     | 1,19                                                     | MKH 2180            | 15,5                       | 225M6          |
|                                                     | 67,8                                                   | 4059                                                     | 1,78                                                     | MKH 2200            | 20,7                       | 200L4          |
|                                                     | 68,1                                                   | 4042                                                     | 2,55                                                     | MKH 2200            | 13,2                       | 225M6          |
|                                                     | 68,5                                                   | 4019                                                     | 1,32                                                     | MKH 2180            | 20,5                       | 200L4          |
|                                                     | 68,6                                                   | 4009                                                     | 1,02                                                     | MKH 2160            | 20,4                       | 200L4          |
|                                                     | 69,9                                                   | 3938                                                     | 1,43                                                     | MKH 2180            | 12,9                       | 225M6          |

| P <sub>1</sub><br>Giriş Gücü<br>Input Power<br>[kW] | n <sub>2</sub><br>Çıkış Devri<br>Output Speed<br>[rpm] | M <sub>2</sub><br>Çıkış Momenti<br>Output Torque<br>[Nm] | f <sub>s</sub><br>Servis<br>Faktörü<br>Service<br>Factor | Redüktör<br>Gearbox | i<br>Tahvil Oranı<br>Ratio | Motor<br>Motor |
|-----------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|---------------------|----------------------------|----------------|
| 30                                                  | 70,0                                                   | 3929                                                     | 1,19                                                     | MKH 2160            | 12,9                       | 225M6          |
|                                                     | 84,4                                                   | 3259                                                     | 3,15                                                     | MKH 2200            | 10,7                       | 225M6          |
|                                                     | 88,0                                                   | 3128                                                     | 1,84                                                     | MKH 2180            | 10,2                       | 225M6          |
|                                                     | 88,1                                                   | 3125                                                     | 0,94                                                     | MKH 2140            | 15,9                       | 200L4          |
|                                                     | 88,2                                                   | 3118                                                     | 1,53                                                     | MKH 2160            | 10,2                       | 225M6          |
|                                                     | 88,9                                                   | 3095                                                     | 1,42                                                     | MKH 2160            | 15,8                       | 200L4          |
|                                                     | 88,9                                                   | 3094                                                     | 3,16                                                     | MKH 2200            | 15,7                       | 200L4          |
|                                                     | 90,3                                                   | 3046                                                     | 1,78                                                     | MKH 2180            | 15,5                       | 200L4          |
|                                                     | 108                                                    | 2549                                                     | 0,97                                                     | MKH 2140            | 13,0                       | 200L4          |
|                                                     | 109                                                    | 2531                                                     | 2,14                                                     | MKH 2180            | 12,9                       | 200L4          |
|                                                     | 109                                                    | 2526                                                     | 1,78                                                     | MKH 2160            | 12,9                       | 200L4          |
|                                                     | 113                                                    | 2424                                                     | 1,80                                                     | MKH 2160            | 7,93                       | 225M6          |
|                                                     | 117                                                    | 2348                                                     | 2,29                                                     | MKH 2180            | 7,68                       | 225M6          |
|                                                     | 137                                                    | 2011                                                     | 2,75                                                     | MKH 2180            | 10,2                       | 200L4          |
|                                                     | 137                                                    | 2005                                                     | 2,29                                                     | MKH 2160            | 10,2                       | 200L4          |
|                                                     | 140                                                    | 1966                                                     | 1,87                                                     | MKH 2160            | 6,43                       | 225M6          |
|                                                     | 142                                                    | 1940                                                     | 1,58                                                     | MKH 2140            | 9,87                       | 200L4          |
|                                                     | 177                                                    | 1559                                                     | 2,69                                                     | MKH 2160            | 7,93                       | 200L4          |
|                                                     | 182                                                    | 1509                                                     | 3,43                                                     | MKH 2180            | 7,68                       | 200L4          |
|                                                     | 188                                                    | 1464                                                     | 1,73                                                     | MKH 2140            | 7,45                       | 200L4          |
|                                                     | 218                                                    | 1264                                                     | 2,80                                                     | MKH 2160            | 6,43                       | 200L4          |
|                                                     | 7,13                                                   | 46671                                                    | 1,36                                                     | MKH 3360            | 126                        | 250M6          |
|                                                     | 8,30                                                   | 40056                                                    | 1,77                                                     | MKH 3360            | 108                        | 250M6          |
|                                                     | 8,53                                                   | 38985                                                    | 1,33                                                     | MKH 3320            | 106                        | 250M6          |
|                                                     | 10,4                                                   | 32045                                                    | 1,95                                                     | MKH 3360            | 86,7                       | 250M6          |
|                                                     | 10,7                                                   | 31202                                                    | 1,67                                                     | MKH 3320            | 84,4                       | 250M6          |
|                                                     | 10,7                                                   | 31040                                                    | 0,99                                                     | MKH 3280            | 84,0                       | 250M6          |
|                                                     | 10,9                                                   | 30406                                                    | 1,43                                                     | MKH 3320            | 128                        | 225S4          |
|                                                     | 11,1                                                   | 30003                                                    | 2,03                                                     | MKH 3360            | 126                        | 225S4          |
|                                                     | 11,3                                                   | 29451                                                    | 1,22                                                     | MKH 3280            | 79,7                       | 250M6          |
|                                                     | 11,3                                                   | 29447                                                    | 1,54                                                     | MKH 3320            | 79,7                       | 250M6          |
|                                                     | 11,4                                                   | 29052                                                    | 2,33                                                     | MKH 3360            | 78,6                       | 250M6          |
|                                                     | 12,9                                                   | 25750                                                    | 2,64                                                     | MKH 3360            | 108                        | 225S4          |
|                                                     | 13,3                                                   | 25062                                                    | 2,00                                                     | MKH 3320            | 106                        | 225S4          |
| 37                                                  | 13,3                                                   | 24932                                                    | 2,92                                                     | MKH 3360            | 67,5                       | 250M6          |
|                                                     | 13,7                                                   | 24274                                                    | 2,14                                                     | MKH 3320            | 65,7                       | 250M6          |
|                                                     | 13,9                                                   | 23959                                                    | 1,36                                                     | MKH 3280            | 101                        | 225S4          |
|                                                     | 14,0                                                   | 23755                                                    | 1,03                                                     | MKH 3250            | 100                        | 225 S4         |
|                                                     | 14,0                                                   | 23834                                                    | 1,48                                                     | MKH 3280            | 64,5                       | 250M6          |
|                                                     | 14,1                                                   | 23649                                                    | 1,06                                                     | MKH 3250            | 64,0                       | 250 M6         |
|                                                     | 16,1                                                   | 20600                                                    | 2,91                                                     | MKH 3360            | 86,7                       | 225S4          |
|                                                     | 16,6                                                   | 20059                                                    | 2,49                                                     | MKH 3320            | 84,4                       | 225S4          |
|                                                     | 16,6                                                   | 20028                                                    | 1,77                                                     | MKH 3280            | 54,2                       | 250M6          |
|                                                     | 16,7                                                   | 19945                                                    | 1,02                                                     | MKH 3250            | 84,0                       | 225 S4         |
|                                                     | 16,7                                                   | 19954                                                    | 1,48                                                     | MKH 3280            | 84,0                       | 225S4          |
|                                                     | 16,8                                                   | 19854                                                    | 1,28                                                     | MKH 3250            | 53,7                       | 250 M6         |
|                                                     | 17,1                                                   | 19426                                                    | 2,68                                                     | MKH 3320            | 52,6                       | 250M6          |
|                                                     | 17,5                                                   | 18999                                                    | 0,96                                                     | MKH 3250            | 80,0                       | 225 S4         |
|                                                     | 17,6                                                   | 18933                                                    | 1,82                                                     | MKH 3280            | 79,7                       | 225S4          |



## MKH Performans Tabloları / Performance Tables

| P <sub>1</sub><br>Giriş Gücü<br>Input Power<br>[kW] | n <sub>2</sub><br>Çıkış Devri<br>Output Speed<br>[rpm] | M <sub>2</sub><br>Çıkış Momenti<br>Output Torque<br>[Nm] | f <sub>s</sub><br>Servis<br>Faktörü<br>Service<br>Factor | Redüktör<br>Gearbox | i<br>Tahvil Oranı<br>Ratio | Motor<br>Motor |
|-----------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|---------------------|----------------------------|----------------|
| 37                                                  | 17,6                                                   | 18930                                                    | 2,30                                                     | MKH 3320            | 79,7                       | 225S4          |
|                                                     | 17,8                                                   | 18676                                                    | 3,48                                                     | MKH 3360            | 78,6                       | 225S4          |
|                                                     | 21,3                                                   | 15605                                                    | 3,20                                                     | MKH 3320            | 65,7                       | 225S4          |
|                                                     | 21,4                                                   | 15513                                                    | 2,18                                                     | MKH 3280            | 42,0                       | 250M6          |
|                                                     | 21,6                                                   | 15372                                                    | 1,57                                                     | MKH 3250            | 41,6                       | 250 M6         |
|                                                     | 21,7                                                   | 15322                                                    | 2,22                                                     | MKH 3280            | 64,5                       | 225S4          |
|                                                     | 21,9                                                   | 15203                                                    | 1,59                                                     | MKH 3250            | 64,0                       | 225 S4         |
|                                                     | 22,4                                                   | 14877                                                    | 3,43                                                     | MKH 3320            | 40,3                       | 250M6          |
|                                                     | 22,6                                                   | 14714                                                    | 1,01                                                     | MKH 3225            | 61,9                       | 225S4          |
|                                                     | 25,8                                                   | 12875                                                    | 2,64                                                     | MKH 3280            | 54,2                       | 225S4          |
|                                                     | 26,1                                                   | 12764                                                    | 1,92                                                     | MKH 3250            | 53,7                       | 225 S4         |
|                                                     | 26,3                                                   | 12640                                                    | 1,22                                                     | MKH 3225            | 53,2                       | 225S4          |
|                                                     | 26,8                                                   | 12409                                                    | 2,07                                                     | MKH 3250            | 33,6                       | 250 M6         |
|                                                     | 27,4                                                   | 12120                                                    | 2,92                                                     | MKH 3280            | 32,8                       | 250M6          |
|                                                     | 27,5                                                   | 12094                                                    | 0,93                                                     | MKH 3200            | 32,7                       | 250M6          |
|                                                     | 33,3                                                   | 9972                                                     | 3,26                                                     | MKH 3280            | 42,0                       | 225S4          |
|                                                     | 33,7                                                   | 9882                                                     | 2,35                                                     | MKH 3250            | 41,6                       | 225 S4         |
|                                                     | 33,9                                                   | 9820                                                     | 1,58                                                     | MKH 3225            | 41,3                       | 225S4          |
|                                                     | 33,9                                                   | 9807                                                     | 1,15                                                     | MKH 3200            | 26,5                       | 250M6          |
|                                                     | 33,9                                                   | 9797                                                     | 1,12                                                     | MKH 3200            | 41,2                       | 225S4          |
|                                                     | 34,3                                                   | 9696                                                     | 2,68                                                     | MKH 3250            | 26,2                       | 250 M6         |
|                                                     | 35,2                                                   | 9445                                                     | 3,69                                                     | MKH 3280            | 25,6                       | 250M6          |
|                                                     | 36,2                                                   | 9381                                                     | 2,07                                                     | MKH 2250            | 24,9                       | 250 M6         |
|                                                     | 36,2                                                   | 9362                                                     | 2,91                                                     | MKH 2280            | 24,8                       | 250M6          |
|                                                     | 41,7                                                   | 7977                                                     | 3,09                                                     | MKH 3250            | 33,6                       | 225 S4         |
|                                                     | 42,7                                                   | 7794                                                     | 1,81                                                     | MKH 3225            | 32,8                       | 225S4          |
|                                                     | 42,8                                                   | 7775                                                     | 1,39                                                     | MKH 3200            | 32,7                       | 225S4          |
|                                                     | 43,6                                                   | 7786                                                     | 0,97                                                     | MKH 2200            | 20,7                       | 250M6          |
|                                                     | 44,1                                                   | 7547                                                     | 0,97                                                     | MKH 3180            | 31,8                       | 225S4          |
|                                                     | 45,2                                                   | 7507                                                     | 2,36                                                     | MKH 2250            | 19,9                       | 250 M6         |
|                                                     | 45,2                                                   | 7515                                                     | 3,18                                                     | MKH 2280            | 19,9                       | 250M6          |
|                                                     | 52,6                                                   | 6319                                                     | 2,23                                                     | MKH 3225            | 26,6                       | 225S4          |
|                                                     | 52,8                                                   | 6305                                                     | 1,73                                                     | MKH 3200            | 26,5                       | 225S4          |
|                                                     | 53,4                                                   | 6233                                                     | 4,00                                                     | MKH 3250            | 26,2                       | 225 S4         |
|                                                     | 56,3                                                   | 6031                                                     | 3,09                                                     | MKH 2250            | 24,9                       | 225 S4         |
|                                                     | 56,9                                                   | 5963                                                     | 0,91                                                     | MKH 2180            | 24,6                       | 225S4          |
|                                                     | 56,9                                                   | 5963                                                     | 1,24                                                     | MKH 2200            | 24,6                       | 225S4          |
|                                                     | 57,2                                                   | 5935                                                     | 1,71                                                     | MKH 2200            | 15,7                       | 250M6          |
|                                                     | 57,3                                                   | 5808                                                     | 1,26                                                     | MKH 3180            | 24,5                       | 225S4          |
|                                                     | 57,4                                                   | 5794                                                     | 0,95                                                     | MKH 3160            | 24,4                       | 225S4          |
|                                                     | 57,4                                                   | 5916                                                     | 3,35                                                     | MKH 2250            | 15,7                       | 250 M6         |
|                                                     | 58,1                                                   | 5844                                                     | 0,97                                                     | MKH 2180            | 15,5                       | 250M6          |
|                                                     | 67,8                                                   | 5006                                                     | 1,44                                                     | MKH 2200            | 20,7                       | 225S4          |
|                                                     | 68,1                                                   | 4985                                                     | 2,07                                                     | MKH 2200            | 13,2                       | 250M6          |
|                                                     | 68,5                                                   | 4957                                                     | 1,07                                                     | MKH 2180            | 20,5                       | 225S4          |
|                                                     | 69,9                                                   | 4857                                                     | 1,16                                                     | MKH 2180            | 12,9                       | 250M6          |
|                                                     | 70,3                                                   | 4826                                                     | 3,53                                                     | MKH 2250            | 19,9                       | 225 S4         |
|                                                     | 84,4                                                   | 4019                                                     | 2,56                                                     | MKH 2200            | 10,7                       | 250M6          |

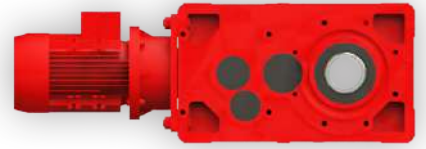
| P <sub>1</sub><br>Giriş Gücü<br>Input Power<br>[kW] | n <sub>2</sub><br>Çıkış Devri<br>Output Speed<br>[rpm] | M <sub>2</sub><br>Çıkış Momenti<br>Output Torque<br>[Nm] | f <sub>s</sub><br>Servis<br>Faktörü<br>Service<br>Factor | Redüktör<br>Gearbox | i<br>Tahvil Oranı<br>Ratio | Motor<br>Motor |
|-----------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|---------------------|----------------------------|----------------|
| 37                                                  | 88,0                                                   | 3857                                                     | 1,49                                                     | MKH 2180            | 10,2                       | 250M6          |
|                                                     | 88,9                                                   | 3818                                                     | 1,16                                                     | MKH 2160            | 15,8                       | 225S4          |
|                                                     | 88,9                                                   | 3815                                                     | 2,56                                                     | MKH 2200            | 15,7                       | 225S4          |
|                                                     | 90,3                                                   | 3757                                                     | 1,44                                                     | MKH 2180            | 15,5                       | 225S4          |
|                                                     | 106                                                    | 3205                                                     | 3,09                                                     | MKH 2200            | 13,2                       | 225S4          |
|                                                     | 109                                                    | 3122                                                     | 1,73                                                     | MKH 2180            | 12,9                       | 225S4          |
|                                                     | 109                                                    | 3115                                                     | 1,44                                                     | MKH 2160            | 12,9                       | 225S4          |
|                                                     | 109                                                    | 3115                                                     | 3,26                                                     | MKH 2200            | 8,26                       | 250M6          |
|                                                     | 117                                                    | 2896                                                     | 1,86                                                     | MKH 2180            | 7,68                       | 250M6          |
|                                                     | 137                                                    | 2480                                                     | 2,23                                                     | MKH 2180            | 10,2                       | 225S4          |
|                                                     | 137                                                    | 2472                                                     | 1,86                                                     | MKH 2160            | 10,2                       | 225S4          |
|                                                     | 140                                                    | 2432                                                     | 3,50                                                     | MKH 2200            | 6,45                       | 250M6          |
|                                                     | 177                                                    | 1922                                                     | 2,18                                                     | MKH 2160            | 7,93                       | 225S4          |
|                                                     | 182                                                    | 1862                                                     | 2,78                                                     | MKH 2180            | 7,68                       | 225S4          |
|                                                     | 218                                                    | 1559                                                     | 2,27                                                     | MKH 2160            | 6,43                       | 225S4          |
|                                                     | 7,13                                                   | 56762                                                    | 1,12                                                     | MKH 3360            | 126                        | 280S6          |
|                                                     | 8,30                                                   | 48717                                                    | 1,45                                                     | MKH 3360            | 108                        | 280S6          |
|                                                     | 10,4                                                   | 38974                                                    | 1,60                                                     | MKH 3360            | 86,7                       | 280S6          |
|                                                     | 10,7                                                   | 37949                                                    | 1,37                                                     | MKH 3320            | 84,4                       | 280S6          |
|                                                     | 10,9                                                   | 36981                                                    | 1,18                                                     | MKH 3320            | 128                        | 225M4          |
| 45                                                  | 11,1                                                   | 36490                                                    | 1,67                                                     | MKH 3360            | 126                        | 225M4          |
|                                                     | 11,3                                                   | 35814                                                    | 1,26                                                     | MKH 3320            | 79,7                       | 280S6          |
|                                                     | 11,4                                                   | 35333                                                    | 1,91                                                     | MKH 3360            | 78,6                       | 280S6          |
|                                                     | 12,9                                                   | 31318                                                    | 2,17                                                     | MKH 3360            | 108                        | 225M4          |
|                                                     | 13,3                                                   | 30480                                                    | 1,64                                                     | MKH 3320            | 106                        | 225M4          |
|                                                     | 13,3                                                   | 30322                                                    | 2,40                                                     | MKH 3360            | 67,5                       | 280S6          |
|                                                     | 13,7                                                   | 29522                                                    | 1,76                                                     | MKH 3320            | 65,7                       | 280S6          |
|                                                     | 13,9                                                   | 29140                                                    | 1,12                                                     | MKH 3280            | 101                        | 225M4          |
|                                                     | 14,0                                                   | 28988                                                    | 1,22                                                     | MKH 3280            | 64,5                       | 280S6          |
|                                                     | 16,1                                                   | 25054                                                    | 2,39                                                     | MKH 3360            | 86,7                       | 225M4          |
|                                                     | 16,6                                                   | 24396                                                    | 2,05                                                     | MKH 3320            | 84,4                       | 225M4          |
|                                                     | 16,6                                                   | 24359                                                    | 1,45                                                     | MKH 3280            | 54,2                       | 280S6          |
|                                                     | 16,7                                                   | 24269                                                    | 1,22                                                     | MKH 3280            | 84,0                       | 225M4          |
|                                                     | 16,7                                                   | 24255                                                    | 3,00                                                     | MKH 3360            | 54,0                       | 280S6          |
|                                                     | 16,8                                                   | 24147                                                    | 1,06                                                     | MKH 3250            | 53,7                       | 280 S6         |
|                                                     | 17,1                                                   | 23626                                                    | 2,20                                                     | MKH 3320            | 52,6                       | 280S6          |
|                                                     | 17,6                                                   | 23026                                                    | 1,50                                                     | MKH 3280            | 79,7                       | 225M4          |
|                                                     | 17,6                                                   | 23023                                                    | 1,89                                                     | MKH 3320            | 79,7                       | 225M4          |
|                                                     | 17,8                                                   | 22714                                                    | 2,86                                                     | MKH 3360            | 78,6                       | 225M4          |
|                                                     | 21,3                                                   | 18979                                                    | 2,63                                                     | MKH 3320            | 65,7                       | 225M4          |
|                                                     | 21,4                                                   | 18867                                                    | 1,79                                                     | MKH 3280            | 42,0                       | 280S6          |
|                                                     | 21,6                                                   | 18696                                                    | 1,29                                                     | MKH 3250            | 41,6                       | 280 S6         |
|                                                     | 21,7                                                   | 18635                                                    | 1,82                                                     | MKH 3280            | 64,5                       | 225M4          |
|                                                     | 21,8                                                   | 18579                                                    | 3,36                                                     | MKH 3360            | 41,3                       | 280S6          |
|                                                     | 21,9                                                   | 18490                                                    | 1,30                                                     | MKH 3250            | 64,0                       | 225 M4         |
|                                                     | 22,4                                                   | 18094                                                    | 2,82                                                     | MKH 3320            | 40,3                       | 280S6          |
|                                                     | 25,8                                                   | 15659                                                    | 2,17                                                     | MKH 3280            | 54,2                       | 225M4          |
|                                                     | 26,1                                                   | 15523                                                    | 1,58                                                     | MKH 3250            | 53,7                       | 225 M4         |



| P <sub>1</sub><br>Giriş Gücü<br>Input Power<br>[kW] | n <sub>2</sub><br>Çıkış Devri<br>Output Speed<br>[rpm] | M <sub>2</sub><br>Çıkış Momenti<br>Output Torque<br>[Nm] | f <sub>s</sub><br>Servis<br>Faktörü<br>Service<br>Factor | Redüktör<br>Gearbox | i<br>Tahvil Oranı<br>Ratio | Motor<br>Motor |
|-----------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|---------------------|----------------------------|----------------|
| 45                                                  | 26,3                                                   | 15373                                                    | 1,00                                                     | MKH 3225            | 53,2                       | 225M4          |
|                                                     | 26,6                                                   | 15188                                                    | 3,29                                                     | MKH 3320            | 52,6                       | 225M4          |
|                                                     | 26,8                                                   | 15091                                                    | 1,70                                                     | MKH 3250            | 33,6                       | 280 S6         |
|                                                     | 27,4                                                   | 14741                                                    | 2,40                                                     | MKH 3280            | 32,8                       | 280S6          |
|                                                     | 27,5                                                   | 14687                                                    | 3,47                                                     | MKH 3320            | 32,7                       | 280S6          |
|                                                     | 33,3                                                   | 12129                                                    | 2,68                                                     | MKH 3280            | 42,0                       | 225M4          |
|                                                     | 33,7                                                   | 12019                                                    | 1,93                                                     | MKH 3250            | 41,6                       | 225 M4         |
|                                                     | 33,9                                                   | 11944                                                    | 1,30                                                     | MKH 3225            | 41,3                       | 225M4          |
|                                                     | 33,9                                                   | 11915                                                    | 0,92                                                     | MKH 3200            | 41,2                       | 225M4          |
|                                                     | 34,3                                                   | 11793                                                    | 2,20                                                     | MKH 3250            | 26,2                       | 280 S6         |
|                                                     | 35,2                                                   | 11487                                                    | 3,03                                                     | MKH 3280            | 25,6                       | 280S6          |
|                                                     | 36,2                                                   | 11410                                                    | 1,70                                                     | MKH 2250            | 24,9                       | 280 S6         |
|                                                     | 36,2                                                   | 11387                                                    | 2,39                                                     | MKH 2280            | 24,8                       | 280S6          |
|                                                     | 37,4                                                   | 11029                                                    | 3,39                                                     | MKH 2320            | 24,1                       | 280S6          |
|                                                     | 41,7                                                   | 9702                                                     | 2,54                                                     | MKH 3250            | 33,6                       | 225 M4         |
|                                                     | 42,7                                                   | 9479                                                     | 1,49                                                     | MKH 3225            | 32,8                       | 225M4          |
|                                                     | 42,8                                                   | 9456                                                     | 1,14                                                     | MKH 3200            | 32,7                       | 225M4          |
|                                                     | 45,2                                                   | 9131                                                     | 1,94                                                     | MKH 2250            | 19,9                       | 280 S6         |
|                                                     | 45,2                                                   | 9140                                                     | 2,62                                                     | MKH 2280            | 19,9                       | 280S6          |
|                                                     | 52,6                                                   | 7685                                                     | 1,83                                                     | MKH 3225            | 26,6                       | 225M4          |
|                                                     | 52,8                                                   | 7668                                                     | 1,42                                                     | MKH 3200            | 26,5                       | 225M4          |
|                                                     | 53,4                                                   | 7581                                                     | 3,29                                                     | MKH 3250            | 26,2                       | 225 M4         |
|                                                     | 56,3                                                   | 7335                                                     | 2,54                                                     | MKH 2250            | 24,9                       | 225 M4         |
|                                                     | 56,9                                                   | 7252                                                     | 1,02                                                     | MKH 2200            | 24,6                       | 225M4          |
|                                                     | 57,2                                                   | 7218                                                     | 1,41                                                     | MKH 2200            | 15,7                       | 280S6          |
|                                                     | 57,3                                                   | 7064                                                     | 1,04                                                     | MKH 3180            | 24,5                       | 225M4          |
|                                                     | 57,4                                                   | 7195                                                     | 2,76                                                     | MKH 2250            | 15,7                       | 280 S6         |
|                                                     | 67,8                                                   | 6088                                                     | 1,19                                                     | MKH 2200            | 20,7                       | 225M4          |
|                                                     | 68,1                                                   | 6063                                                     | 1,70                                                     | MKH 2200            | 13,2                       | 280S6          |
|                                                     | 70,3                                                   | 5870                                                     | 2,90                                                     | MKH 2250            | 19,9                       | 225 M4         |
|                                                     | 71,7                                                   | 5760                                                     | 3,62                                                     | MKH 2250            | 12,6                       | 280 S6         |
|                                                     | 84,4                                                   | 4889                                                     | 2,10                                                     | MKH 2200            | 10,7                       | 280S6          |
|                                                     | 88,9                                                   | 4643                                                     | 0,95                                                     | MKH 2160            | 15,8                       | 225M4          |
|                                                     | 88,9                                                   | 4640                                                     | 2,10                                                     | MKH 2200            | 15,7                       | 225M4          |
|                                                     | 90,3                                                   | 4570                                                     | 1,19                                                     | MKH 2180            | 15,5                       | 225M4          |
|                                                     | 106                                                    | 3897                                                     | 2,54                                                     | MKH 2200            | 13,2                       | 225M4          |
|                                                     | 109                                                    | 3797                                                     | 1,43                                                     | MKH 2180            | 12,9                       | 225M4          |
|                                                     | 109                                                    | 3788                                                     | 1,19                                                     | MKH 2160            | 12,9                       | 225M4          |
|                                                     | 109                                                    | 3788                                                     | 2,68                                                     | MKH 2200            | 8,26                       | 280S6          |
|                                                     | 131                                                    | 3143                                                     | 3,14                                                     | MKH 2200            | 10,7                       | 225M4          |
|                                                     | 137                                                    | 3016                                                     | 1,83                                                     | MKH 2180            | 10,2                       | 225M4          |
|                                                     | 137                                                    | 3007                                                     | 1,53                                                     | MKH 2160            | 10,2                       | 225M4          |
|                                                     | 140                                                    | 2958                                                     | 2,88                                                     | MKH 2200            | 6,45                       | 280S6          |
|                                                     | 177                                                    | 2338                                                     | 1,80                                                     | MKH 2160            | 7,93                       | 225M4          |
|                                                     | 182                                                    | 2264                                                     | 2,29                                                     | MKH 2180            | 7,68                       | 225M4          |
|                                                     | 218                                                    | 1896                                                     | 1,86                                                     | MKH 2160            | 6,43                       | 225M4          |
| 55                                                  | 8,30                                                   | 59543                                                    | 1,19                                                     | MKH 3360            | 108                        | 280M6          |
|                                                     | 10,4                                                   | 47634                                                    | 1,31                                                     | MKH 3360            | 86,7                       | 280M6          |
|                                                     | 10,7                                                   | 46382                                                    | 1,12                                                     | MKH 3320            | 84,4                       | 280M6          |

| P <sub>1</sub><br>Giriş Gücü<br>Input Power<br>[kW] | n <sub>2</sub><br>Çıkış Devri<br>Output Speed<br>[rpm] | M <sub>2</sub><br>Çıkış Momenti<br>Output Torque<br>[Nm] | f <sub>s</sub><br>Servis<br>Faktörü<br>Service<br>Factor | Redüktör<br>Gearbox | i<br>Tahvil Oranı<br>Ratio | Motor<br>Motor |
|-----------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|---------------------|----------------------------|----------------|
| 55                                                  | 11,1                                                   | 44598                                                    | 1,37                                                     | MKH 3360            | 126                        | 250M4          |
|                                                     | 11,3                                                   | 43773                                                    | 1,03                                                     | MKH 3320            | 79,7                       | 280M6          |
|                                                     | 11,4                                                   | 43185                                                    | 1,57                                                     | MKH 3360            | 78,6                       | 280M6          |
|                                                     | 12,9                                                   | 38278                                                    | 1,78                                                     | MKH 3360            | 108                        | 250M4          |
|                                                     | 13,3                                                   | 37254                                                    | 1,34                                                     | MKH 3320            | 106                        | 250M4          |
|                                                     | 13,3                                                   | 37061                                                    | 1,96                                                     | MKH 3360            | 67,5                       | 280M6          |
|                                                     | 13,7                                                   | 36083                                                    | 1,44                                                     | MKH 3320            | 65,7                       | 280M6          |
|                                                     | 14,0                                                   | 35429                                                    | 1,00                                                     | MKH 3280            | 64,5                       | 280M6          |
|                                                     | 16,1                                                   | 30622                                                    | 1,96                                                     | MKH 3360            | 86,7                       | 250M4          |
|                                                     | 16,6                                                   | 29817                                                    | 1,68                                                     | MKH 3320            | 84,4                       | 250M4          |
|                                                     | 16,6                                                   | 29772                                                    | 1,19                                                     | MKH 3280            | 54,2                       | 280M6          |
|                                                     | 16,7                                                   | 29662                                                    | 0,99                                                     | MKH 3280            | 84,0                       | 250M4          |
|                                                     | 16,7                                                   | 29645                                                    | 2,46                                                     | MKH 3360            | 54,0                       | 280M6          |
|                                                     | 16,8                                                   | 29513                                                    | 0,86                                                     | MKH 3250            | 53,7                       | 280 M6         |
|                                                     | 17,1                                                   | 28876                                                    | 1,80                                                     | MKH 3320            | 52,6                       | 280M6          |
|                                                     | 17,6                                                   | 28143                                                    | 1,23                                                     | MKH 3280            | 79,7                       | 250M4          |
|                                                     | 17,6                                                   | 28140                                                    | 1,55                                                     | MKH 3320            | 79,7                       | 250M4          |
|                                                     | 17,8                                                   | 27762                                                    | 2,34                                                     | MKH 3360            | 78,6                       | 250M4          |
|                                                     | 20,7                                                   | 23825                                                    | 2,94                                                     | MKH 3360            | 67,5                       | 250M4          |
|                                                     | 21,3                                                   | 23196                                                    | 2,16                                                     | MKH 3320            | 65,7                       | 250M4          |
|                                                     | 21,4                                                   | 23059                                                    | 1,47                                                     | MKH 3280            | 42,0                       | 280M6          |
|                                                     | 21,6                                                   | 22850                                                    | 1,05                                                     | MKH 3250            | 41,6                       | 280 M6         |
|                                                     | 21,7                                                   | 22776                                                    | 1,49                                                     | MKH 3280            | 64,5                       | 250M4          |
|                                                     | 21,8                                                   | 22708                                                    | 2,75                                                     | MKH 3360            | 41,3                       | 280M6          |
|                                                     | 21,9                                                   | 22599                                                    | 1,07                                                     | MKH 3250            | 64,0                       | 250 M4         |
|                                                     | 22,4                                                   | 22114                                                    | 2,30                                                     | MKH 3320            | 40,3                       | 280M6          |
|                                                     | 25,8                                                   | 19139                                                    | 1,78                                                     | MKH 3280            | 54,2                       | 250M4          |
|                                                     | 26,1                                                   | 18973                                                    | 1,29                                                     | MKH 3250            | 53,7                       | 250 M4         |
|                                                     | 26,6                                                   | 18563                                                    | 2,69                                                     | MKH 3320            | 52,6                       | 250M4          |
|                                                     | 26,8                                                   | 18445                                                    | 1,39                                                     | MKH 3250            | 33,6                       | 280 M6         |
|                                                     | 27,4                                                   | 18017                                                    | 1,96                                                     | MKH 3280            | 32,8                       | 280M6          |
|                                                     | 27,5                                                   | 17951                                                    | 2,84                                                     | MKH 3320            | 32,7                       | 280M6          |
|                                                     | 33,3                                                   | 14824                                                    | 2,19                                                     | MKH 3280            | 42,0                       | 250M4          |
|                                                     | 33,7                                                   | 14690                                                    | 1,58                                                     | MKH 3250            | 41,6                       | 250 M4         |
|                                                     | 33,9                                                   | 14562                                                    | 3,46                                                     | MKH 3320            | 26,5                       | 280M6          |
|                                                     | 34,3                                                   | 14413                                                    | 1,80                                                     | MKH 3250            | 26,2                       | 280 M6         |
|                                                     | 34,8                                                   | 14216                                                    | 3,45                                                     | MKH 3320            | 40,3                       | 250M4          |
|                                                     | 35,2                                                   | 14040                                                    | 2,48                                                     | MKH 3280            | 25,6                       | 280M6          |
|                                                     | 36,2                                                   | 13945                                                    | 1,39                                                     | MKH 2250            | 24,9                       | 280 M6         |
|                                                     | 36,2                                                   | 13917                                                    | 1,96                                                     | MKH 2280            | 24,8                       | 280M6          |
|                                                     | 37,4                                                   | 13480                                                    | 2,78                                                     | MKH 2320            | 24,1                       | 280M6          |
|                                                     | 41,7                                                   | 11858                                                    | 2,08                                                     | MKH 3250            | 33,6                       | 250 M4         |
|                                                     | 42,7                                                   | 11582                                                    | 2,94                                                     | MKH 3280            | 32,8                       | 250M4          |
|                                                     | 42,8                                                   | 11557                                                    | 0,93                                                     | MKH 3200            | 32,7                       | 250M4          |
|                                                     | 45,2                                                   | 11160                                                    | 1,59                                                     | MKH 2250            | 19,9                       | 280 M6         |
|                                                     | 45,2                                                   | 11171                                                    | 2,14                                                     | MKH 2280            | 19,9                       | 280M6          |
|                                                     | 45,4                                                   | 11115                                                    | 3,13                                                     | MKH 2320            | 19,8                       | 280M6          |
|                                                     | 52,8                                                   | 9372                                                     | 1,16                                                     | MKH 3200            | 26,5                       | 250M4          |
|                                                     | 53,4                                                   | 9266                                                     | 2,69                                                     | MKH 3250            | 26,2                       | 250 M4         |





## MKH Performans Tabloları / Performance Tables

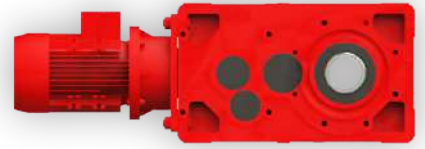
| P <sub>1</sub><br>Giriş Gücü<br>Input Power<br>[kW] | n <sub>2</sub><br>Çıkış Devri<br>Output Speed<br>[rpm] | M <sub>2</sub><br>Çıkış Momenti<br>Output Torque<br>[Nm] | f <sub>s</sub><br>Servis<br>Faktörü<br>Service<br>Factor | Redüktör<br>Gearbox | i<br>Tahvil Oranı<br>Ratio | Motor<br>Motor |
|-----------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|---------------------|----------------------------|----------------|
| 55                                                  | 54,8                                                   | 9026                                                     | 3,71                                                     | MKH 3280            | 25,6                       | 250M4          |
|                                                     | 55,8                                                   | 9035                                                     | 3,28                                                     | MKH 2280            | 16,1                       | 280M6          |
|                                                     | 56,3                                                   | 8965                                                     | 2,08                                                     | MKH 2250            | 24,9                       | 250 M4         |
|                                                     | 56,4                                                   | 8947                                                     | 2,93                                                     | MKH 2280            | 24,8                       | 250M4          |
|                                                     | 57,2                                                   | 8822                                                     | 1,15                                                     | MKH 2200            | 15,7                       | 280M6          |
|                                                     | 57,4                                                   | 8794                                                     | 2,25                                                     | MKH 2250            | 15,7                       | 280 M6         |
|                                                     | 67,8                                                   | 7441                                                     | 0,97                                                     | MKH 2200            | 20,7                       | 250M4          |
|                                                     | 68,1                                                   | 7410                                                     | 1,39                                                     | MKH 2200            | 13,2                       | 280M6          |
|                                                     | 69,6                                                   | 7253                                                     | 3,44                                                     | MKH 2280            | 12,9                       | 280M6          |
|                                                     | 70,2                                                   | 7181                                                     | 3,20                                                     | MKH 2280            | 19,9                       | 250M4          |
|                                                     | 70,3                                                   | 7174                                                     | 2,37                                                     | MKH 2250            | 19,9                       | 250 M4         |
|                                                     | 71,7                                                   | 7040                                                     | 2,96                                                     | MKH 2250            | 12,6                       | 280 M6         |
|                                                     | 84,4                                                   | 5975                                                     | 1,72                                                     | MKH 2200            | 10,7                       | 280M6          |
|                                                     | 88,9                                                   | 5671                                                     | 1,72                                                     | MKH 2200            | 15,7                       | 250M4          |
|                                                     | 89,2                                                   | 5653                                                     | 3,37                                                     | MKH 2250            | 15,7                       | 250 M4         |
|                                                     | 90,3                                                   | 5585                                                     | 0,97                                                     | MKH 2180            | 15,5                       | 250M4          |
|                                                     | 106                                                    | 4763                                                     | 2,08                                                     | MKH 2200            | 13,2                       | 250M4          |
|                                                     | 109                                                    | 4641                                                     | 1,17                                                     | MKH 2180            | 12,9                       | 250M4          |
|                                                     | 109                                                    | 4630                                                     | 2,19                                                     | MKH 2200            | 8,26                       | 280M6          |
|                                                     | 131                                                    | 3841                                                     | 2,57                                                     | MKH 2200            | 10,7                       | 250M4          |
|                                                     | 137                                                    | 3686                                                     | 1,50                                                     | MKH 2180            | 10,2                       | 250M4          |
| 75                                                  | 140                                                    | 3615                                                     | 2,35                                                     | MKH 2200            | 6,45                       | 280M6          |
|                                                     | 169                                                    | 2976                                                     | 3,28                                                     | MKH 2200            | 8,26                       | 250M4          |
|                                                     | 182                                                    | 2767                                                     | 1,87                                                     | MKH 2180            | 7,68                       | 250M4          |
|                                                     | 11,1                                                   | 60816                                                    | 1,00                                                     | MKH 3360            | 126                        | 280S4          |
|                                                     | 11,4                                                   | 58889                                                    | 1,15                                                     | MKH 3360            | 78,6                       | 315S6          |
|                                                     | 12,9                                                   | 52197                                                    | 1,30                                                     | MKH 3360            | 108                        | 280S4          |
|                                                     | 13,3                                                   | 50537                                                    | 1,44                                                     | MKH 3360            | 67,5                       | 315S6          |
|                                                     | 13,7                                                   | 49204                                                    | 1,06                                                     | MKH 3320            | 65,7                       | 315S6          |
|                                                     | 16,1                                                   | 41757                                                    | 1,44                                                     | MKH 3360            | 86,7                       | 280S4          |
|                                                     | 16,6                                                   | 40660                                                    | 1,23                                                     | MKH 3320            | 84,4                       | 280S4          |
|                                                     | 16,7                                                   | 40425                                                    | 1,80                                                     | MKH 3360            | 54,0                       | 315S6          |
|                                                     | 17,1                                                   | 39377                                                    | 1,32                                                     | MKH 3320            | 52,6                       | 315S6          |
|                                                     | 17,6                                                   | 38372                                                    | 1,13                                                     | MKH 3320            | 79,7                       | 280S4          |
|                                                     | 17,8                                                   | 37857                                                    | 1,72                                                     | MKH 3360            | 78,6                       | 280S4          |
|                                                     | 20,7                                                   | 32488                                                    | 2,15                                                     | MKH 3360            | 67,5                       | 280S4          |
|                                                     | 21,3                                                   | 31631                                                    | 1,58                                                     | MKH 3320            | 65,7                       | 280S4          |
|                                                     | 21,4                                                   | 31444                                                    | 1,07                                                     | MKH 3280            | 42,0                       | 315S6          |
|                                                     | 21,7                                                   | 31058                                                    | 1,09                                                     | MKH 3280            | 64,5                       | 280S4          |
|                                                     | 21,8                                                   | 30965                                                    | 2,02                                                     | MKH 3360            | 41,3                       | 315S6          |
|                                                     | 22,4                                                   | 30156                                                    | 1,69                                                     | MKH 3320            | 40,3                       | 315S6          |
|                                                     | 25,8                                                   | 26098                                                    | 1,30                                                     | MKH 3280            | 54,2                       | 280S4          |
|                                                     | 25,9                                                   | 25988                                                    | 2,69                                                     | MKH 3360            | 54,0                       | 280S4          |
|                                                     | 26,1                                                   | 25872                                                    | 0,95                                                     | MKH 3250            | 53,7                       | 280 S4         |
|                                                     | 26,6                                                   | 25314                                                    | 1,98                                                     | MKH 3320            | 52,6                       | 280S4          |
|                                                     | 26,8                                                   | 25152                                                    | 1,02                                                     | MKH 3250            | 33,6                       | 315 S6         |
|                                                     | 26,8                                                   | 25145                                                    | 2,90                                                     | MKH 3360            | 33,6                       | 315S6          |
|                                                     | 27,4                                                   | 24568                                                    | 1,44                                                     | MKH 3280            | 32,8                       | 315S6          |

| P <sub>1</sub><br>Giriş Gücü<br>Input Power<br>[kW] | n <sub>2</sub><br>Çıkış Devri<br>Output Speed<br>[rpm] | M <sub>2</sub><br>Çıkış Momenti<br>Output Torque<br>[Nm] | f <sub>s</sub><br>Servis<br>Faktörü<br>Service<br>Factor | Redüktör<br>Gearbox | i<br>Tahvil Oranı<br>Ratio | Motor<br>Motor |
|-----------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|---------------------|----------------------------|----------------|
| 75                                                  | 27,5                                                   | 24478                                                    | 2,08                                                     | MKH 3320            | 32,7                       | 315S6          |
|                                                     | 33,1                                                   | 20396                                                    | 3,31                                                     | MKH 3360            | 27,2                       | 315S6          |
|                                                     | 33,3                                                   | 20214                                                    | 1,61                                                     | MKH 3280            | 42,0                       | 280S4          |
|                                                     | 33,7                                                   | 20031                                                    | 1,16                                                     | MKH 3250            | 41,6                       | 280 S4         |
|                                                     | 33,9                                                   | 19906                                                    | 3,01                                                     | MKH 3360            | 41,3                       | 280S4          |
|                                                     | 33,9                                                   | 19857                                                    | 2,54                                                     | MKH 3320            | 26,5                       | 315S6          |
|                                                     | 34,3                                                   | 19655                                                    | 1,32                                                     | MKH 3250            | 26,2                       | 315 S6         |
|                                                     | 34,8                                                   | 19386                                                    | 2,53                                                     | MKH 3320            | 40,3                       | 280S4          |
|                                                     | 35,2                                                   | 19145                                                    | 1,82                                                     | MKH 3280            | 25,6                       | 315S6          |
|                                                     | 36,2                                                   | 19016                                                    | 1,02                                                     | MKH 2250            | 24,9                       | 315 S6         |
|                                                     | 36,2                                                   | 18978                                                    | 1,44                                                     | MKH 2280            | 24,8                       | 315S6          |
|                                                     | 37,4                                                   | 18382                                                    | 2,04                                                     | MKH 2320            | 24,1                       | 315S6          |
|                                                     | 38,0                                                   | 18114                                                    | 2,50                                                     | MKH 2360            | 23,7                       | 315S6          |
|                                                     | 41,7                                                   | 16169                                                    | 1,52                                                     | MKH 3250            | 33,6                       | 280 S4         |
|                                                     | 42,7                                                   | 15794                                                    | 2,15                                                     | MKH 3280            | 32,8                       | 280S4          |
|                                                     | 42,8                                                   | 15736                                                    | 3,11                                                     | MKH 3320            | 32,7                       | 280S4          |
|                                                     | 44,2                                                   | 15562                                                    | 2,74                                                     | MKH 2360            | 20,4                       | 315S6          |
|                                                     | 45,2                                                   | 15218                                                    | 1,16                                                     | MKH 2250            | 19,9                       | 315 S6         |
|                                                     | 45,2                                                   | 15233                                                    | 1,57                                                     | MKH 2280            | 19,9                       | 315S6          |
|                                                     | 45,4                                                   | 15156                                                    | 2,30                                                     | MKH 2320            | 19,8                       | 315S6          |
| 90                                                  | 53,4                                                   | 12635                                                    | 1,97                                                     | MKH 3250            | 26,2                       | 280 S4         |
|                                                     | 54,8                                                   | 12308                                                    | 2,72                                                     | MKH 3280            | 25,6                       | 280S4          |
|                                                     | 55,8                                                   | 12321                                                    | 2,41                                                     | MKH 2280            | 16,1                       | 315S6          |
|                                                     | 56,3                                                   | 12225                                                    | 1,52                                                     | MKH 2250            | 24,9                       | 280 S4         |
|                                                     | 56,4                                                   | 12200                                                    | 2,15                                                     | MKH 2280            | 24,8                       | 280S4          |
|                                                     | 57,4                                                   | 11992                                                    | 1,65                                                     | MKH 2250            | 15,7                       | 315 S6         |
|                                                     | 58,2                                                   | 11817                                                    | 3,05                                                     | MKH 2320            | 24,1                       | 280S4          |
|                                                     | 69,6                                                   | 9890                                                     | 2,52                                                     | MKH 2280            | 12,9                       | 315S6          |
|                                                     | 70,2                                                   | 9793                                                     | 2,35                                                     | MKH 2280            | 19,9                       | 280S4          |
|                                                     | 70,3                                                   | 9783                                                     | 1,74                                                     | MKH 2250            | 19,9                       | 280 S4         |
|                                                     | 70,6                                                   | 9743                                                     | 3,44                                                     | MKH 2320            | 19,8                       | 280S4          |
|                                                     | 71,7                                                   | 9600                                                     | 2,17                                                     | MKH 2250            | 12,6                       | 315 S6         |
|                                                     | 88,9                                                   | 7734                                                     | 1,26                                                     | MKH 2200            | 15,7                       | 280S4          |
|                                                     | 89,2                                                   | 7709                                                     | 2,47                                                     | MKH 2250            | 15,7                       | 280 S4         |
|                                                     | 91,6                                                   | 7506                                                     | 3,20                                                     | MKH 2250            | 9,82                       | 315 S6         |
|                                                     | 106                                                    | 6496                                                     | 1,53                                                     | MKH 2200            | 13,2                       | 280S4          |
|                                                     | 111                                                    | 6171                                                     | 3,25                                                     | MKH 2250            | 12,6                       | 280 S4         |
|                                                     | 120                                                    | 5748                                                     | 3,20                                                     | MKH 2250            | 7,52                       | 315 S6         |
|                                                     | 131                                                    | 5238                                                     | 1,89                                                     | MKH 2200            | 10,7                       | 280S4          |
|                                                     | 169                                                    | 4059                                                     | 2,40                                                     | MKH 2200            | 8,26                       | 280S4          |
|                                                     | 217                                                    | 3169                                                     | 2,58                                                     | MKH 2200            | 6,45                       | 280S4          |
|                                                     | 12,9                                                   | 62636                                                    | 1,09                                                     | MKH 3360            | 108                        | 280M4          |
|                                                     | 13,3                                                   | 60645                                                    | 1,20                                                     | MKH 3360            | 67,5                       | 315MA6         |
|                                                     | 16,1                                                   | 50109                                                    | 1,20                                                     | MKH 3360            | 86,7                       | 280M4          |
|                                                     | 16,6                                                   | 48792                                                    | 1,02                                                     | MKH 3320            | 84,4                       | 280M4          |
|                                                     | 16,7                                                   | 48510                                                    | 1,50                                                     | MKH 3360            | 54,0                       | 315MA6         |
|                                                     | 17,1                                                   | 47252                                                    | 1,10                                                     | MKH 3320            | 52,6                       | 315MA6         |
|                                                     | 17,8                                                   | 45429                                                    | 1,43                                                     | MKH 3360            | 78,6                       | 280M4          |



| P <sub>1</sub><br>Giriş Gücü<br>Input Power<br>[kW] | n <sub>2</sub><br>Çıkış Devri<br>Output Speed<br>[rpm] | M <sub>2</sub><br>Çıkış Momenti<br>Output Torque<br>[Nm] | f <sub>s</sub><br>Servis<br>Faktörü<br>Service<br>Factor | Redüktör<br>Gearbox | Tahvil Oranı<br>Ratio | Motor<br>Motor |
|-----------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|---------------------|-----------------------|----------------|
| 90                                                  | 20,7                                                   | 38986                                                    | 1,80                                                     | MKH 3360            | 67,5                  | 280M4          |
|                                                     | 21,3                                                   | 37957                                                    | 1,32                                                     | MKH 3320            | 65,7                  | 280M4          |
|                                                     | 21,8                                                   | 37158                                                    | 1,68                                                     | MKH 3360            | 41,3                  | 315MA6         |
|                                                     | 22,4                                                   | 36187                                                    | 1,41                                                     | MKH 3320            | 40,3                  | 315MA6         |
|                                                     | 25,8                                                   | 31318                                                    | 1,09                                                     | MKH 3280            | 54,2                  | 280M4          |
|                                                     | 25,9                                                   | 31185                                                    | 2,24                                                     | MKH 3360            | 54,0                  | 280M4          |
|                                                     | 26,6                                                   | 30376                                                    | 1,65                                                     | MKH 3320            | 52,6                  | 280M4          |
|                                                     | 26,8                                                   | 30174                                                    | 2,41                                                     | MKH 3360            | 33,6                  | 315MA6         |
|                                                     | 27,4                                                   | 29482                                                    | 1,20                                                     | MKH 3280            | 32,8                  | 315MA6         |
|                                                     | 27,5                                                   | 29374                                                    | 1,73                                                     | MKH 3320            | 32,7                  | 315MA6         |
|                                                     | 33,1                                                   | 24475                                                    | 2,76                                                     | MKH 3360            | 27,2                  | 315MA6         |
|                                                     | 33,3                                                   | 24257                                                    | 1,34                                                     | MKH 3280            | 42,0                  | 280M4          |
|                                                     | 33,7                                                   | 24038                                                    | 0,96                                                     | MKH 3250            | 41,6                  | 280 M4         |
|                                                     | 33,9                                                   | 23887                                                    | 2,51                                                     | MKH 3360            | 41,3                  | 280M4          |
|                                                     | 33,9                                                   | 23828                                                    | 2,12                                                     | MKH 3320            | 26,5                  | 315MA6         |
|                                                     | 34,3                                                   | 23586                                                    | 1,10                                                     | MKH 3250            | 26,2                  | 315 MA6        |
|                                                     | 34,8                                                   | 23263                                                    | 2,11                                                     | MKH 3320            | 40,3                  | 280M4          |
|                                                     | 35,2                                                   | 22974                                                    | 1,52                                                     | MKH 3280            | 25,6                  | 315MA6         |
|                                                     | 36,2                                                   | 22774                                                    | 1,20                                                     | MKH 2280            | 24,8                  | 315MA6         |
|                                                     | 37,4                                                   | 22058                                                    | 1,70                                                     | MKH 2320            | 24,1                  | 315MA6         |
|                                                     | 38,0                                                   | 21737                                                    | 2,08                                                     | MKH 2360            | 23,7                  | 315MA6         |
|                                                     | 41,7                                                   | 19403                                                    | 1,27                                                     | MKH 3250            | 33,6                  | 280 M4         |
|                                                     | 41,7                                                   | 19398                                                    | 3,61                                                     | MKH 3360            | 33,6                  | 280M4          |
|                                                     | 42,7                                                   | 18953                                                    | 1,79                                                     | MKH 3280            | 32,8                  | 280M4          |
|                                                     | 42,8                                                   | 18883                                                    | 2,59                                                     | MKH 3320            | 32,7                  | 280M4          |
|                                                     | 44,2                                                   | 18674                                                    | 2,28                                                     | MKH 2360            | 20,4                  | 315MA6         |
|                                                     | 45,2                                                   | 18261                                                    | 0,97                                                     | MKH 2250            | 19,9                  | 315 MA6        |
|                                                     | 45,2                                                   | 18279                                                    | 1,31                                                     | MKH 2280            | 19,9                  | 315MA6         |
|                                                     | 45,4                                                   | 18188                                                    | 1,92                                                     | MKH 2320            | 19,8                  | 315MA6         |
|                                                     | 51,4                                                   | 15734                                                    | 4,13                                                     | MKH 3360            | 27,2                  | 280M4          |
|                                                     | 52,8                                                   | 15318                                                    | 3,17                                                     | MKH 3320            | 26,5                  | 280M4          |
|                                                     | 53,4                                                   | 15162                                                    | 1,65                                                     | MKH 3250            | 26,2                  | 280 M4         |
|                                                     | 54,8                                                   | 14769                                                    | 2,27                                                     | MKH 3280            | 25,6                  | 280M4          |
|                                                     | 55,8                                                   | 14785                                                    | 2,00                                                     | MKH 2280            | 16,1                  | 315MA6         |
|                                                     | 56,3                                                   | 14670                                                    | 1,27                                                     | MKH 2250            | 24,9                  | 280 M4         |
|                                                     | 56,4                                                   | 14640                                                    | 1,79                                                     | MKH 2280            | 24,8                  | 280M4          |
|                                                     | 57,4                                                   | 14391                                                    | 1,38                                                     | MKH 2250            | 15,7                  | 315 MA6        |
|                                                     | 58,2                                                   | 14180                                                    | 2,54                                                     | MKH 2320            | 24,1                  | 280M4          |
|                                                     | 58,8                                                   | 14033                                                    | 3,16                                                     | MKH 2320            | 15,3                  | 315MA6         |
|                                                     | 59,1                                                   | 13974                                                    | 3,11                                                     | MKH 2360            | 23,7                  | 280M4          |
|                                                     | 68,8                                                   | 12005                                                    | 3,42                                                     | MKH 2360            | 20,4                  | 280M4          |
|                                                     | 69,6                                                   | 11868                                                    | 2,10                                                     | MKH 2280            | 12,9                  | 315MA6         |
|                                                     | 70,2                                                   | 11751                                                    | 1,96                                                     | MKH 2280            | 19,9                  | 280M4          |
|                                                     | 70,3                                                   | 11739                                                    | 1,45                                                     | MKH 2250            | 19,9                  | 280 M4         |
|                                                     | 70,6                                                   | 11692                                                    | 2,87                                                     | MKH 2320            | 19,8                  | 280M4          |
|                                                     | 71,7                                                   | 11520                                                    | 1,81                                                     | MKH 2250            | 12,6                  | 315 MA6        |
|                                                     | 86,8                                                   | 9505                                                     | 3,00                                                     | MKH 2280            | 16,1                  | 280M4          |
|                                                     | 87,2                                                   | 9465                                                     | 3,03                                                     | MKH 2280            | 10,3                  | 315MA6         |
|                                                     | 88,9                                                   | 9281                                                     | 1,05                                                     | MKH 2200            | 15,7                  | 280M4          |

| P <sub>1</sub><br>Giriş Gücü<br>Input Power<br>[kW] | n <sub>2</sub><br>Çıkış Devri<br>Output Speed<br>[rpm] | M <sub>2</sub><br>Çıkış Momenti<br>Output Torque<br>[Nm] | f <sub>s</sub><br>Servis<br>Faktörü<br>Service<br>Factor | Redüktör<br>Gearbox | Tahvil Oranı<br>Ratio | Motor<br>Motor |
|-----------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|---------------------|-----------------------|----------------|
| 90                                                  | 89,2                                                   | 9251                                                     | 2,06                                                     | MKH 2250            | 15,7                  | 280 M4         |
|                                                     | 91,6                                                   | 9007                                                     | 2,67                                                     | MKH 2250            | 9,82                  | 315 MA6        |
|                                                     | 106                                                    | 7795                                                     | 1,27                                                     | MKH 2200            | 13,2                  | 280M4          |
|                                                     | 108                                                    | 7630                                                     | 3,15                                                     | MKH 2280            | 12,9                  | 280M4          |
|                                                     | 111                                                    | 7406                                                     | 2,71                                                     | MKH 2250            | 12,6                  | 280 M4         |
|                                                     | 111                                                    | 7429                                                     | 3,29                                                     | MKH 2280            | 8,10                  | 315MA6         |
|                                                     | 120                                                    | 6897                                                     | 2,67                                                     | MKH 2250            | 7,52                  | 315 MA6        |
|                                                     | 131                                                    | 6285                                                     | 1,57                                                     | MKH 2200            | 10,7                  | 280M4          |
|                                                     | 169                                                    | 4870                                                     | 2,00                                                     | MKH 2200            | 8,26                  | 280M4          |
|                                                     | 217                                                    | 3803                                                     | 2,15                                                     | MKH 2200            | 6,45                  | 280M4          |
|                                                     | 16,1                                                   | 61244                                                    | 0,98                                                     | MKH 3360            | 86,7                  | 315S4          |
|                                                     | 16,7                                                   | 59290                                                    | 1,23                                                     | MKH 3360            | 54,0                  | 315MB6         |
|                                                     | 17,8                                                   | 55524                                                    | 1,17                                                     | MKH 3360            | 78,6                  | 315S4          |
|                                                     | 20,7                                                   | 47649                                                    | 1,47                                                     | MKH 3360            | 67,5                  | 315S4          |
| 110                                                 | 21,3                                                   | 46392                                                    | 1,08                                                     | MKH 3320            | 65,7                  | 315S4          |
|                                                     | 21,8                                                   | 45415                                                    | 1,37                                                     | MKH 3360            | 41,3                  | 315MB6         |
|                                                     | 22,4                                                   | 44229                                                    | 1,15                                                     | MKH 3320            | 40,3                  | 315MB6         |
|                                                     | 25,9                                                   | 38115                                                    | 1,84                                                     | MKH 3360            | 54,0                  | 315S4          |
|                                                     | 26,6                                                   | 37127                                                    | 1,35                                                     | MKH 3320            | 52,6                  | 315S4          |
|                                                     | 26,8                                                   | 36879                                                    | 1,97                                                     | MKH 3360            | 33,6                  | 315MB6         |
|                                                     | 27,5                                                   | 35902                                                    | 1,42                                                     | MKH 3320            | 32,7                  | 315MB6         |
|                                                     | 33,1                                                   | 29914                                                    | 2,26                                                     | MKH 3360            | 27,2                  | 315MB6         |
|                                                     | 33,3                                                   | 29648                                                    | 1,10                                                     | MKH 3280            | 42,0                  | 315S4          |
|                                                     | 33,9                                                   | 29196                                                    | 2,06                                                     | MKH 3360            | 41,3                  | 315S4          |
|                                                     | 33,9                                                   | 29123                                                    | 1,73                                                     | MKH 3320            | 26,5                  | 315MB6         |
|                                                     | 34,8                                                   | 28433                                                    | 1,72                                                     | MKH 3320            | 40,3                  | 315S4          |
|                                                     | 35,2                                                   | 28080                                                    | 1,24                                                     | MKH 3280            | 25,6                  | 315MB6         |
|                                                     | 37,4                                                   | 26960                                                    | 1,39                                                     | MKH 2320            | 24,1                  | 315MB6         |
|                                                     | 38,0                                                   | 26568                                                    | 1,70                                                     | MKH 2360            | 23,7                  | 315MB6         |
|                                                     | 41,7                                                   | 23715                                                    | 1,04                                                     | MKH 3250            | 33,6                  | 315 S4         |
|                                                     | 41,7                                                   | 23708                                                    | 2,95                                                     | MKH 3360            | 33,6                  | 315S4          |
|                                                     | 42,7                                                   | 23164                                                    | 1,47                                                     | MKH 3280            | 32,8                  | 315S4          |
|                                                     | 42,8                                                   | 23080                                                    | 2,12                                                     | MKH 3320            | 32,7                  | 315S4          |
|                                                     | 44,2                                                   | 22824                                                    | 1,87                                                     | MKH 2360            | 20,4                  | 315MB6         |
|                                                     | 45,2                                                   | 22342                                                    | 1,07                                                     | MKH 2280            | 19,9                  | 315MB6         |
|                                                     | 45,4                                                   | 22229                                                    | 1,57                                                     | MKH 2320            | 19,8                  | 315MB6         |
|                                                     | 51,4                                                   | 19231                                                    | 3,38                                                     | MKH 3360            | 27,2                  | 315S4          |
|                                                     | 52,8                                                   | 18722                                                    | 2,59                                                     | MKH 3320            | 26,5                  | 315S4          |
|                                                     | 53,4                                                   | 18531                                                    | 1,35                                                     | MKH 3250            | 26,2                  | 315 S4         |
|                                                     | 54,8                                                   | 18051                                                    | 1,86                                                     | MKH 3280            | 25,6                  | 315S4          |
|                                                     | 55,8                                                   | 18071                                                    | 1,64                                                     | MKH 2280            | 16,1                  | 315MB6         |
|                                                     | 56,3                                                   | 17930                                                    | 1,04                                                     | MKH 2250            | 24,9                  | 315 S4         |
|                                                     | 56,4                                                   | 17894                                                    | 1,46                                                     | MKH 2280            | 24,8                  | 315S4          |
|                                                     | 57,4                                                   | 17588                                                    | 1,13                                                     | MKH 2250            | 15,7                  | 315 MB6        |
|                                                     | 58,2                                                   | 17331                                                    | 2,08                                                     | MKH 2320            | 24,1                  | 315S4          |
|                                                     | 58,8                                                   | 17151                                                    | 2,58                                                     | MKH 2320            | 15,3                  | 315MB6         |
|                                                     | 59,1                                                   | 17079                                                    | 2,55                                                     | MKH 2360            | 23,7                  | 315S4          |
|                                                     | 59,6                                                   | 16916                                                    | 3,38                                                     | MKH 2360            | 15,1                  | 315MB6         |
|                                                     | 68,8                                                   | 14672                                                    | 2,79                                                     | MKH 2360            | 20,4                  | 315S4          |



## MKH Performans Tabloları / Performance Tables

| P <sub>1</sub><br>Giriş Gücü<br>Input Power<br>[kW] | n <sub>2</sub><br>Çıkış Devri<br>Output Speed<br>[rpm] | M <sub>2</sub><br>Çıkış Momenti<br>Output Torque<br>[Nm] | f <sub>s</sub><br>Servis<br>Faktörü<br>Service<br>Factor | Redüktör<br>Gearbox | i<br>Tahvil Oranı<br>Ratio | Motor<br>Motor |
|-----------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|---------------------|----------------------------|----------------|
| 110                                                 | 69,5                                                   | 14517                                                    | 3,55                                                     | MKH 2360            | 13,0                       | 315MB6         |
|                                                     | 69,6                                                   | 14506                                                    | 1,72                                                     | MKH 2280            | 12,9                       | 315MB6         |
|                                                     | 70,2                                                   | 14362                                                    | 1,60                                                     | MKH 2280            | 19,9                       | 315S4          |
|                                                     | 70,3                                                   | 14348                                                    | 1,19                                                     | MKH 2250            | 19,9                       | 315 S4         |
|                                                     | 70,6                                                   | 14290                                                    | 2,34                                                     | MKH 2320            | 19,8                       | 315S4          |
|                                                     | 71,4                                                   | 14136                                                    | 3,27                                                     | MKH 2320            | 12,6                       | 315MB6         |
|                                                     | 71,7                                                   | 14080                                                    | 1,48                                                     | MKH 2250            | 12,6                       | 315 MB6        |
|                                                     | 86,8                                                   | 11617                                                    | 2,45                                                     | MKH 2280            | 16,1                       | 315S4          |
|                                                     | 87,2                                                   | 11569                                                    | 2,48                                                     | MKH 2280            | 10,3                       | 315MB6         |
|                                                     | 89,2                                                   | 11307                                                    | 1,69                                                     | MKH 2250            | 15,7                       | 315 S4         |
|                                                     | 91,6                                                   | 11008                                                    | 2,18                                                     | MKH 2250            | 9,82                       | 315 MB6        |
|                                                     | 108                                                    | 9325                                                     | 2,57                                                     | MKH 2280            | 12,9                       | 315S4          |
|                                                     | 111                                                    | 9051                                                     | 2,21                                                     | MKH 2250            | 12,6                       | 315 S4         |
|                                                     | 111                                                    | 9080                                                     | 2,69                                                     | MKH 2280            | 8,10                       | 315MB6         |
|                                                     | 120                                                    | 8430                                                     | 2,18                                                     | MKH 2250            | 7,52                       | 315 MB6        |
|                                                     | 143                                                    | 7077                                                     | 3,26                                                     | MKH 2250            | 9,82                       | 315 S4         |
|                                                     | 186                                                    | 5419                                                     | 3,27                                                     | MKH 2250            | 7,52                       | 315 S4         |
| 132                                                 | 16,7                                                   | 71148                                                    | 1,02                                                     | MKH 3360            | 54,0                       | 315LA6         |
|                                                     | 20,7                                                   | 57179                                                    | 1,22                                                     | MKH 3360            | 67,5                       | 315MA4         |
|                                                     | 21,8                                                   | 54498                                                    | 1,14                                                     | MKH 3360            | 41,3                       | 315LA6         |
|                                                     | 25,9                                                   | 45738                                                    | 1,53                                                     | MKH 3360            | 54,0                       | 315MA4         |
|                                                     | 26,6                                                   | 44552                                                    | 1,12                                                     | MKH 3320            | 52,6                       | 315MA4         |
|                                                     | 26,8                                                   | 44255                                                    | 1,65                                                     | MKH 3360            | 33,6                       | 315LA6         |
|                                                     | 27,5                                                   | 43082                                                    | 1,18                                                     | MKH 3320            | 32,7                       | 315LA6         |
|                                                     | 33,1                                                   | 35897                                                    | 1,88                                                     | MKH 3360            | 27,2                       | 315LA6         |
|                                                     | 33,9                                                   | 35035                                                    | 1,71                                                     | MKH 3360            | 41,3                       | 315MA4         |
|                                                     | 33,9                                                   | 34948                                                    | 1,44                                                     | MKH 3320            | 26,5                       | 315LA6         |
|                                                     | 34,8                                                   | 34119                                                    | 1,44                                                     | MKH 3320            | 40,3                       | 315MA4         |
|                                                     | 35,2                                                   | 33696                                                    | 1,03                                                     | MKH 3280            | 25,6                       | 315LA6         |
|                                                     | 37,4                                                   | 32352                                                    | 1,16                                                     | MKH 3320            | 24,1                       | 315LA6         |
|                                                     | 38,0                                                   | 31881                                                    | 1,42                                                     | MKH 2360            | 23,7                       | 315LA6         |
|                                                     | 41,7                                                   | 28450                                                    | 2,46                                                     | MKH 3360            | 33,6                       | 315MA4         |
|                                                     | 42,7                                                   | 27797                                                    | 1,22                                                     | MKH 3280            | 32,8                       | 315MA4         |
|                                                     | 42,8                                                   | 27696                                                    | 1,77                                                     | MKH 3320            | 32,7                       | 315MA4         |
|                                                     | 44,2                                                   | 27388                                                    | 1,56                                                     | MKH 2360            | 20,4                       | 315LA6         |
|                                                     | 45,4                                                   | 26675                                                    | 1,31                                                     | MKH 2320            | 19,8                       | 315LA6         |
|                                                     | 51,4                                                   | 23077                                                    | 2,82                                                     | MKH 3360            | 27,2                       | 315MA4         |
|                                                     | 52,8                                                   | 22467                                                    | 2,16                                                     | MKH 3320            | 26,5                       | 315MA4         |
|                                                     | 53,4                                                   | 22238                                                    | 1,12                                                     | MKH 3250            | 26,2                       | 315 MA4        |
|                                                     | 54,8                                                   | 21661                                                    | 1,55                                                     | MKH 3280            | 25,6                       | 315MA4         |
|                                                     | 55,8                                                   | 21685                                                    | 1,37                                                     | MKH 2280            | 16,1                       | 315LA6         |
|                                                     | 56,4                                                   | 21472                                                    | 1,22                                                     | MKH 2280            | 24,8                       | 315MA4         |
|                                                     | 57,4                                                   | 21106                                                    | 0,94                                                     | MKH 2250            | 15,7                       | 315 LA6        |
|                                                     | 58,2                                                   | 20798                                                    | 1,73                                                     | MKH 2320            | 24,1                       | 315MA4         |
|                                                     | 58,8                                                   | 20582                                                    | 2,15                                                     | MKH 2320            | 15,3                       | 315LA6         |
|                                                     | 59,1                                                   | 20495                                                    | 2,12                                                     | MKH 2360            | 23,7                       | 315MA4         |
|                                                     | 59,6                                                   | 20299                                                    | 2,82                                                     | MKH 2360            | 15,1                       | 315LA6         |
|                                                     | 68,8                                                   | 17607                                                    | 2,33                                                     | MKH 2360            | 20,4                       | 315MA4         |
|                                                     | 69,5                                                   | 17420                                                    | 2,96                                                     | MKH 2360            | 13,0                       | 315LA6         |

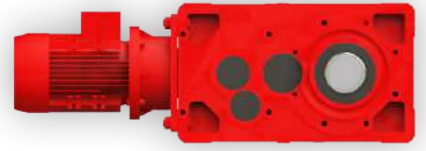
| P <sub>1</sub><br>Giriş Gücü<br>Input Power<br>[kW] | n <sub>2</sub><br>Çıkış Devri<br>Output Speed<br>[rpm] | M <sub>2</sub><br>Çıkış Momenti<br>Output Torque<br>[Nm] | f <sub>s</sub><br>Servis<br>Faktörü<br>Service<br>Factor | Redüktör<br>Gearbox | i<br>Tahvil Oranı<br>Ratio | Motor<br>Motor |
|-----------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|---------------------|----------------------------|----------------|
| 132                                                 | 69,6                                                   | 17407                                                    | 1,43                                                     | MKH 2280            | 12,9                       | 315LA6         |
|                                                     | 70,2                                                   | 17235                                                    | 1,33                                                     | MKH 2280            | 19,9                       | 315MA4         |
|                                                     | 70,3                                                   | 17218                                                    | 0,99                                                     | MKH 2250            | 19,9                       | 315 MA4        |
|                                                     | 70,6                                                   | 17148                                                    | 1,95                                                     | MKH 2320            | 19,8                       | 315MA4         |
|                                                     | 71,4                                                   | 16963                                                    | 2,73                                                     | MKH 2320            | 12,6                       | 315LA6         |
|                                                     | 71,7                                                   | 16896                                                    | 1,23                                                     | MKH 2250            | 12,6                       | 315 LA6        |
|                                                     | 86,8                                                   | 13940                                                    | 2,04                                                     | MKH 2280            | 16,1                       | 315MA4         |
|                                                     | 87,2                                                   | 13882                                                    | 2,06                                                     | MKH 2280            | 10,3                       | 315LA6         |
|                                                     | 89,2                                                   | 13568                                                    | 1,41                                                     | MKH 2250            | 15,7                       | 315 MA4        |
|                                                     | 91,5                                                   | 13231                                                    | 3,22                                                     | MKH 2320            | 15,3                       | 315MA4         |
|                                                     | 91,6                                                   | 13210                                                    | 1,82                                                     | MKH 2250            | 9,82                       | 315 LA6        |
|                                                     | 91,6                                                   | 13223                                                    | 3,34                                                     | MKH 2320            | 9,83                       | 315LA6         |
|                                                     | 108                                                    | 11190                                                    | 2,14                                                     | MKH 2280            | 12,9                       | 315MA4         |
|                                                     | 111                                                    | 10862                                                    | 1,85                                                     | MKH 2250            | 12,6                       | 315 MA4        |
|                                                     | 111                                                    | 10896                                                    | 2,24                                                     | MKH 2280            | 8,10                       | 315LA6         |
|                                                     | 120                                                    | 10116                                                    | 1,82                                                     | MKH 2250            | 7,52                       | 315 LA6        |
| 160                                                 | 120                                                    | 10089                                                    | 3,38                                                     | MKH 2320            | 7,50                       | 315LA6         |
|                                                     | 136                                                    | 8924                                                     | 3,08                                                     | MKH 2280            | 10,3                       | 315MA4         |
|                                                     | 143                                                    | 8492                                                     | 2,72                                                     | MKH 2250            | 9,82                       | 315 MA4        |
|                                                     | 146                                                    | 8273                                                     | 3,58                                                     | MKH 2320            | 6,15                       | 315LA6         |
|                                                     | 173                                                    | 7005                                                     | 3,35                                                     | MKH 2280            | 8,10                       | 315MA4         |
|                                                     | 186                                                    | 6503                                                     | 2,72                                                     | MKH 2250            | 7,52                       | 315 MA4        |
|                                                     | 20,7                                                   | 69308                                                    | 1,01                                                     | MKH 3360            | 67,5                       | 315MB4         |
|                                                     | 25,9                                                   | 55440                                                    | 1,26                                                     | MKH 3360            | 54,0                       | 315MB4         |
|                                                     | 26,8                                                   | 53643                                                    | 1,36                                                     | MKH 3360            | 33,6                       | 315LB6         |
|                                                     | 27,5                                                   | 52221                                                    | 0,98                                                     | MKH 3320            | 32,7                       | 315LB6         |
|                                                     | 33,1                                                   | 43512                                                    | 1,55                                                     | MKH 3360            | 27,2                       | 315LB6         |
|                                                     | 33,9                                                   | 42466                                                    | 1,41                                                     | MKH 3360            | 41,3                       | 315MB4         |
|                                                     | 33,9                                                   | 42361                                                    | 1,19                                                     | MKH 3320            | 26,5                       | 315LB6         |
|                                                     | 34,8                                                   | 41357                                                    | 1,18                                                     | MKH 3320            | 40,3                       | 315MB4         |
|                                                     | 37,4                                                   | 39215                                                    | 0,95                                                     | MKH 2320            | 24,1                       | 315LB6         |
|                                                     | 38,0                                                   | 38644                                                    | 1,17                                                     | MKH 2360            | 23,7                       | 315LB6         |
|                                                     | 41,7                                                   | 34485                                                    | 2,03                                                     | MKH 3360            | 33,6                       | 315MB4         |
|                                                     | 42,7                                                   | 33694                                                    | 1,01                                                     | MKH 3280            | 32,8                       | 315MB4         |
|                                                     | 42,8                                                   | 33570                                                    | 1,46                                                     | MKH 3320            | 32,7                       | 315MB4         |
|                                                     | 44,2                                                   | 33198                                                    | 1,28                                                     | MKH 2360            | 20,4                       | 315LB6         |
|                                                     | 45,4                                                   | 32334                                                    | 1,08                                                     | MKH 2320            | 19,8                       | 315LB6         |
|                                                     | 51,4                                                   | 27972                                                    | 2,32                                                     | MKH 3360            | 27,2                       | 315MB4         |
|                                                     | 52,8                                                   | 27232                                                    | 1,78                                                     | MKH 3320            | 26,5                       | 315MB4         |
|                                                     | 54,8                                                   | 26256                                                    | 1,28                                                     | MKH 3280            | 25,6                       | 315MB4         |
|                                                     | 55,8                                                   | 26284                                                    | 1,13                                                     | MKH 2280            | 16,1                       | 315LB6         |
|                                                     | 56,4                                                   | 26027                                                    | 1,01                                                     | MKH 2280            | 24,8                       | 315MB4         |
|                                                     | 58,2                                                   | 25209                                                    | 1,43                                                     | MKH 2320            | 24,1                       | 315MB4         |
|                                                     | 58,8                                                   | 24947                                                    | 1,78                                                     | MKH 2320            | 15,3                       | 315LB6         |
|                                                     | 59,1                                                   | 24843                                                    | 1,75                                                     | MKH 2360            | 23,7                       | 315MB4         |
|                                                     | 59,6                                                   | 24605                                                    | 2,32                                                     | MKH 2360            | 15,1                       | 315LB6         |
|                                                     | 68,8                                                   | 21342                                                    | 1,92                                                     | MKH 2360            | 20,4                       | 315MB4         |
|                                                     | 69,5                                                   | 21116                                                    | 2,44                                                     | MKH 2360            | 13,0                       | 315LB6         |
|                                                     | 69,6                                                   | 21099                                                    | 1,18                                                     | MKH 2280            | 12,9                       | 315LB6         |



**MKH Performans Tabloları / Performance Tables**

| P <sub>1</sub><br>Giriş Gücü<br>Input Power<br>[kW] | n <sub>2</sub><br>Çıkış Devri<br>Output Speed<br>[rpm] | M <sub>2</sub><br>Çıkış Momenti<br>Output Torque<br>[Nm] | f <sub>s</sub><br>Servis<br>Faktörü<br>Service<br>Factor | Redüktör<br>Gearbox | i<br>Tahvil Oranı<br>Ratio | Motor<br>Motor |
|-----------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|---------------------|----------------------------|----------------|
| <b>160</b>                                          | 70,2                                                   | 20891                                                    | 1,10                                                     | MKH 2280            | 19,9                       | 315MB4         |
|                                                     | 70,6                                                   | 20786                                                    | 1,61                                                     | MKH 2320            | 19,8                       | 315MB4         |
|                                                     | 71,4                                                   | 20561                                                    | 2,25                                                     | MKH 2320            | 12,6                       | 315LB6         |
|                                                     | 71,7                                                   | 20480                                                    | 1,02                                                     | MKH 2250            | 12,6                       | 315 LB6        |
|                                                     | 86,8                                                   | 16897                                                    | 1,69                                                     | MKH 2280            | 16,1                       | 315MB4         |
|                                                     | 87,2                                                   | 16827                                                    | 1,70                                                     | MKH 2280            | 10,3                       | 315LB6         |
|                                                     | 89,1                                                   | 16469                                                    | 3,13                                                     | MKH 2360            | 10,1                       | 315LB6         |
|                                                     | 89,2                                                   | 16446                                                    | 1,16                                                     | MKH 2250            | 15,7                       | 315 MB4        |
|                                                     | 91,5                                                   | 16038                                                    | 2,66                                                     | MKH 2320            | 15,3                       | 315MB4         |
|                                                     | 91,6                                                   | 16012                                                    | 1,50                                                     | MKH 2250            | 9,82                       | 315 LB6        |
|                                                     | 91,6                                                   | 16028                                                    | 2,76                                                     | MKH 2320            | 9,83                       | 315LB6         |
|                                                     | 92,8                                                   | 15817                                                    | 3,48                                                     | MKH 2360            | 15,1                       | 315MB4         |
|                                                     | 108                                                    | 13564                                                    | 1,77                                                     | MKH 2280            | 12,9                       | 315MB4         |
|                                                     | 111                                                    | 13165                                                    | 1,52                                                     | MKH 2250            | 12,6                       | 315 MB4        |
|                                                     | 111                                                    | 13218                                                    | 3,37                                                     | MKH 2320            | 12,6                       | 315MB4         |
|                                                     | 111                                                    | 13207                                                    | 1,85                                                     | MKH 2280            | 8,10                       | 315LB6         |
|                                                     | 120                                                    | 12262                                                    | 1,50                                                     | MKH 2250            | 7,52                       | 315 LB6        |
|                                                     | 120                                                    | 12278                                                    | 3,39                                                     | MKH 2360            | 7,53                       | 315LB6         |
|                                                     | 120                                                    | 12229                                                    | 2,79                                                     | MKH 2320            | 7,50                       | 315LB6         |
|                                                     | 136                                                    | 10818                                                    | 2,54                                                     | MKH 2280            | 10,3                       | 315MB4         |
|                                                     | 143                                                    | 10293                                                    | 2,24                                                     | MKH 2250            | 9,82                       | 315 MB4        |
| <b>185</b>                                          | 146                                                    | 10028                                                    | 2,96                                                     | MKH 2320            | 6,15                       | 315LB6         |
|                                                     | 173                                                    | 8490                                                     | 2,77                                                     | MKH 2280            | 8,10                       | 315MB4         |
|                                                     | 186                                                    | 7883                                                     | 2,25                                                     | MKH 2250            | 7,52                       | 315 MB4        |
|                                                     | 25,9                                                   | 64103                                                    | 1,09                                                     | MKH 3360            | 54,0                       | 315LA4         |
|                                                     | 33,9                                                   | 49102                                                    | 1,22                                                     | MKH 3360            | 41,3                       | 315LA4         |
|                                                     | 34,8                                                   | 47819                                                    | 1,02                                                     | MKH 3320            | 40,3                       | 315LA4         |
|                                                     | 41,7                                                   | 39873                                                    | 1,76                                                     | MKH 3360            | 33,6                       | 315LA4         |
|                                                     | 42,8                                                   | 38816                                                    | 1,26                                                     | MKH 3320            | 32,7                       | 315LA4         |
|                                                     | 51,4                                                   | 32342                                                    | 2,01                                                     | MKH 3360            | 27,2                       | 315LA4         |
|                                                     | 52,8                                                   | 31487                                                    | 1,54                                                     | MKH 3320            | 26,5                       | 315LA4         |
|                                                     | 54,8                                                   | 30359                                                    | 1,10                                                     | MKH 3280            | 25,6                       | 315LA4         |
|                                                     | 58,2                                                   | 29148                                                    | 1,24                                                     | MKH 2320            | 24,1                       | 315LA4         |
|                                                     | 59,1                                                   | 28724                                                    | 1,51                                                     | MKH 2360            | 23,7                       | 315LA4         |
|                                                     | 68,8                                                   | 24676                                                    | 1,66                                                     | MKH 2360            | 20,4                       | 315LA4         |
|                                                     | 70,6                                                   | 24034                                                    | 1,39                                                     | MKH 2320            | 19,8                       | 315LA4         |
|                                                     | 86,8                                                   | 19537                                                    | 1,46                                                     | MKH 2280            | 16,1                       | 315LA4         |
|                                                     | 89,2                                                   | 19016                                                    | 1,00                                                     | MKH 2250            | 15,7                       | 315 LA4        |
|                                                     | 91,5                                                   | 18543                                                    | 2,30                                                     | MKH 2320            | 15,3                       | 315LA4         |
|                                                     | 92,8                                                   | 18289                                                    | 3,01                                                     | MKH 2360            | 15,1                       | 315LA4         |
|                                                     | 108                                                    | 15695                                                    | 3,15                                                     | MKH 2360            | 13,0                       | 315LA4         |
|                                                     | 108                                                    | 15683                                                    | 1,53                                                     | MKH 2280            | 12,9                       | 315LA4         |
|                                                     | 111                                                    | 15223                                                    | 1,32                                                     | MKH 2250            | 12,6                       | 315 LA4        |
|                                                     | 111                                                    | 15283                                                    | 2,91                                                     | MKH 2320            | 12,6                       | 315LA4         |
|                                                     | 136                                                    | 12508                                                    | 2,20                                                     | MKH 2280            | 10,3                       | 315LA4         |
|                                                     | 142                                                    | 11914                                                    | 3,57                                                     | MKH 2320            | 9,83                       | 315LA4         |
|                                                     | 143                                                    | 11902                                                    | 1,94                                                     | MKH 2250            | 9,82                       | 315 LA4        |
|                                                     | 173                                                    | 9817                                                     | 2,39                                                     | MKH 2280            | 8,10                       | 315LA4         |
|                                                     | 186                                                    | 9114                                                     | 1,94                                                     | MKH 2250            | 7,52                       | 315 LA4        |

| P <sub>1</sub><br>Giriş Gücü<br>Input Power<br>[kW] | n <sub>2</sub><br>Çıkış Devri<br>Output Speed<br>[rpm] | M <sub>2</sub><br>Çıkış Momenti<br>Output Torque<br>[Nm] | f <sub>s</sub><br>Servis<br>Faktörü<br>Service<br>Factor | Redüktör<br>Gearbox | i<br>Tahvil Oranı<br>Ratio | Motor<br>Motor |
|-----------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|---------------------|----------------------------|----------------|
| <b>200</b>                                          | 25,9                                                   | 69300                                                    | 1,01                                                     | MKH 3360            | 54,0                       | 315LB4         |
|                                                     | 33,9                                                   | 53083                                                    | 1,13                                                     | MKH 3360            | 41,3                       | 315LB4         |
|                                                     | 41,7                                                   | 43106                                                    | 1,62                                                     | MKH 3360            | 33,6                       | 315LB4         |
|                                                     | 42,8                                                   | 41963                                                    | 1,17                                                     | MKH 3320            | 32,7                       | 315LB4         |
|                                                     | 51,4                                                   | 34965                                                    | 1,86                                                     | MKH 3360            | 27,2                       | 315LB4         |
|                                                     | 52,8                                                   | 34040                                                    | 1,42                                                     | MKH 3320            | 26,5                       | 315LB4         |
|                                                     | 54,8                                                   | 32820                                                    | 1,02                                                     | MKH 3280            | 25,6                       | 315LB4         |
|                                                     | 58,2                                                   | 31512                                                    | 1,14                                                     | MKH 2320            | 24,1                       | 315LB4         |
|                                                     | 59,1                                                   | 31053                                                    | 1,40                                                     | MKH 2360            | 23,7                       | 315LB4         |
|                                                     | 68,8                                                   | 26677                                                    | 1,54                                                     | MKH 2360            | 20,4                       | 315LB4         |
|                                                     | 70,6                                                   | 25982                                                    | 1,29                                                     | MKH 2320            | 19,8                       | 315LB4         |
|                                                     | 86,8                                                   | 21121                                                    | 1,35                                                     | MKH 2280            | 16,1                       | 315LB4         |
|                                                     | 89,2                                                   | 20558                                                    | 0,93                                                     | MKH 2250            | 15,7                       | 315 LB4        |
|                                                     | 91,5                                                   | 20047                                                    | 2,13                                                     | MKH 2320            | 15,3                       | 315LB4         |
|                                                     | 92,8                                                   | 19772                                                    | 2,78                                                     | MKH 2360            | 15,1                       | 315LB4         |
|                                                     | 108                                                    | 16968                                                    | 2,92                                                     | MKH 2360            | 13,0                       | 315LB4         |
|                                                     | 108                                                    | 16955                                                    | 1,42                                                     | MKH 2280            | 12,9                       | 315LB4         |
|                                                     | 111                                                    | 16457                                                    | 1,22                                                     | MKH 2250            | 12,6                       | 315 LB4        |
|                                                     | 111                                                    | 16522                                                    | 2,69                                                     | MKH 2320            | 12,6                       | 315LB4         |
|                                                     | 136                                                    | 13522                                                    | 2,03                                                     | MKH 2280            | 10,3                       | 315LB4         |
|                                                     | 139                                                    | 13234                                                    | 3,74                                                     | MKH 2360            | 10,1                       | 315LB4         |
| <b>225</b>                                          | 142                                                    | 12880                                                    | 3,30                                                     | MKH 2320            | 9,83                       | 315LB4         |
|                                                     | 143                                                    | 12867                                                    | 1,79                                                     | MKH 2250            | 9,82                       | 315 LB4        |
|                                                     | 173                                                    | 10613                                                    | 2,21                                                     | MKH 2280            | 8,10                       | 315LB4         |
|                                                     | 186                                                    | 9853                                                     | 1,80                                                     | MKH 2250            | 7,52                       | 315 LB4        |
|                                                     | 186                                                    | 9866                                                     | 4,05                                                     | MKH 2360            | 7,53                       | 315LB4         |
|                                                     | 187                                                    | 9827                                                     | 3,34                                                     | MKH 2320            | 7,50                       | 315LB4         |
|                                                     | 228                                                    | 8058                                                     | 3,54                                                     | MKH 2320            | 6,15                       | 315LB4         |



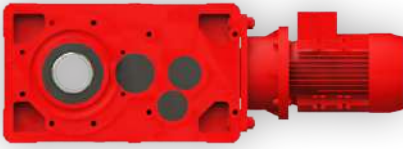
## MKH IEC Bağlantı Kombinasyonları / IEC Combinations

Aşağıdaki tablolarda redüktörlerin 4 kutuplu 1400 d/d Elektrik motorları ile bağlanabilirlik durumları ve mümkün kombinasyonlar için redüktör servis faktörü değerleri listelenmiştir.

The connectivity of gearboxes with 1400 rpm and 4 poles motors and the service factor value for possible combinations listed in the following tables.

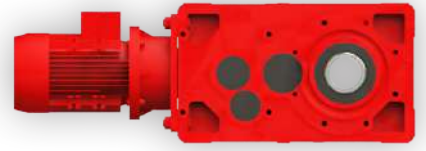
|               | 0,55 kW<br>80 A4 | 0,75 kW<br>80 B4 | 1,1 kW<br>90 S4 | 1,5 kW<br>90 L4 | 2,2 kW<br>100 LA4 | 3 kW<br>100 LB4 | 4 kW<br>112 M4 | 5,5 kW<br>132 S4 | 7,5 kW<br>132 MA4 | 11 kW<br>160 M4 | 15 kW<br>160 L4 | 18,5 kW<br>180 M4 | 22 kW<br>180 L4 | 30 kW<br>200 L4 | 37 kW<br>225 S4 | 45 kW<br>225 M4 | 55 kW<br>250 M4 |
|---------------|------------------|------------------|-----------------|-----------------|-------------------|-----------------|----------------|------------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| MKH 2063-5,93 |                  |                  |                 | 4,17            |                   |                 |                |                  |                   |                 |                 |                   |                 |                 |                 |                 |                 |
| MKH 2063-7,70 |                  |                  |                 | 3,87            |                   |                 |                |                  |                   |                 |                 |                   |                 |                 |                 |                 |                 |
| MKH 2063-9,79 |                  |                  | 3,88            | 2,85            |                   |                 |                |                  |                   |                 |                 |                   |                 |                 |                 |                 |                 |
| MKH 2063-12,7 |                  |                  | 3,34            | 2,45            |                   |                 |                |                  |                   |                 |                 |                   |                 |                 |                 |                 |                 |
| MKH 2063-14,9 |                  | 3,46             | 2,36            | 1,73            |                   |                 |                |                  |                   |                 |                 |                   |                 |                 |                 |                 |                 |
| MKH 2063-20,4 | 3,20             | 2,34             | 1,60            | 1,17            |                   |                 |                |                  |                   |                 |                 |                   |                 |                 |                 |                 |                 |
| MKH 2063-24,0 | 2,64             | 1,93             | 1,32            | 0,97            |                   |                 |                |                  |                   |                 |                 |                   |                 |                 |                 |                 |                 |
| MKH 2080-6,22 |                  |                  |                 |                 |                   | 4,07            | 3,06           |                  |                   |                 |                 |                   |                 |                 |                 |                 |                 |
| MKH 2080-7,43 |                  |                  |                 |                 |                   | 4,07            | 3,05           |                  |                   |                 |                 |                   |                 |                 |                 |                 |                 |
| MKH 2080-9,87 |                  |                  |                 |                 |                   | 3,10            | 2,33           |                  |                   |                 |                 |                   |                 |                 |                 |                 |                 |
| MKH 2080-12,7 |                  |                  |                 |                 | 3,47              | 2,54            | 1,91           |                  |                   |                 |                 |                   |                 |                 |                 |                 |                 |
| MKH 2080-15,0 |                  |                  |                 | 3,76            | 2,56              | 1,88            | 1,41           |                  |                   |                 |                 |                   |                 |                 |                 |                 |                 |
| MKH 2080-19,8 |                  |                  | 3,47            | 2,55            | 1,74              | 1,27            | 0,95           |                  |                   |                 |                 |                   |                 |                 |                 |                 |                 |
| MKH 2080-23,6 |                  |                  | 3,25            | 2,38            | 1,62              | 1,19            | 0,89           |                  |                   |                 |                 |                   |                 |                 |                 |                 |                 |
| MKH 2100-6,32 |                  |                  |                 |                 |                   |                 |                | 3,15             |                   |                 |                 |                   |                 |                 |                 |                 |                 |
| MKH 2100-7,65 |                  |                  |                 |                 |                   |                 |                | 3,16             |                   |                 |                 |                   |                 |                 |                 |                 |                 |
| MKH 2100-9,5  |                  |                  |                 |                 |                   |                 |                | 3,33             | 2,44              |                 |                 |                   |                 |                 |                 |                 |                 |
| MKH 2100-12,4 |                  |                  |                 |                 |                   |                 | 3,51           | 2,55             | 1,87              |                 |                 |                   |                 |                 |                 |                 |                 |
| MKH 2100-15,7 |                  |                  |                 |                 |                   | 3,66            | 2,75           | 2,00             | 1,46              |                 |                 |                   |                 |                 |                 |                 |                 |
| MKH 2100-19,1 |                  |                  |                 |                 | 3,33              | 2,44            | 1,83           | 1,33             | 0,98              |                 |                 |                   |                 |                 |                 |                 |                 |
| MKH 2100-24,1 |                  |                  |                 |                 | 2,64              | 1,93            | 1,45           | 1,05             |                   |                 |                 |                   |                 |                 |                 |                 |                 |
| MKH 2125-5,98 |                  |                  |                 |                 |                   |                 |                |                  |                   | 3,46            | 2,80            | 2,36              |                 |                 |                 |                 |                 |
| MKH 2125-7,77 |                  |                  |                 |                 |                   |                 |                |                  |                   | 3,05            | 2,47            | 2,08              |                 |                 |                 |                 |                 |
| MKH 2125-10,0 |                  |                  |                 |                 |                   |                 |                |                  | 3,33              | 2,44            | 1,98            | 1,67              |                 |                 |                 |                 |                 |
| MKH 2125-13,2 |                  |                  |                 |                 |                   |                 |                |                  | 2,57              | 1,88            | 1,53            | 1,28              |                 |                 |                 |                 |                 |
| MKH 2125-15,1 |                  |                  |                 |                 |                   |                 |                | 2,85             | 1,94              | 1,42            | 1,15            | 0,97              |                 |                 |                 |                 |                 |
| MKH 2125-20,8 |                  |                  |                 |                 |                   |                 | 2,78           | 2,04             | 1,39              | 1,02            |                 |                   |                 |                 |                 |                 |                 |
| MKH 2125-23,8 |                  |                  |                 |                 |                   |                 | 2,36           | 1,73             | 1,18              |                 |                 |                   |                 |                 |                 |                 |                 |
| MKH 2140-7,45 |                  |                  |                 |                 |                   |                 |                |                  |                   | 3,46            | 2,81            | 2,36              | 1,73            |                 |                 |                 |                 |
| MKH 2140-9,87 |                  |                  |                 |                 |                   |                 |                |                  |                   | 3,16            | 2,56            | 2,15              | 1,58            |                 |                 |                 |                 |
| MKH 2140-13,0 |                  |                  |                 |                 |                   |                 |                |                  | 2,64              | 1,93            | 1,57            | 1,32              | 0,97            |                 |                 |                 |                 |
| MKH 2140-15,9 |                  |                  |                 |                 |                   |                 |                |                  | 2,57              | 1,88            | 1,53            | 1,28              | 0,94            |                 |                 |                 |                 |
| MKH 2140-20,4 |                  |                  |                 |                 |                   |                 |                | 3,05             | 2,24              | 1,53            | 1,12            | 0,91              |                 |                 |                 |                 |                 |
| MKH 2140-25,0 |                  |                  |                 |                 |                   |                 |                | 2,78             | 2,04              | 1,39            | 1,02            |                   |                 |                 |                 |                 |                 |
| MKH 3140-25,8 |                  |                  |                 |                 |                   |                 |                | 3,54             | 2,60              | 1,77            | 1,30            |                   |                 |                 |                 |                 |                 |
| MKH 3140-31,2 |                  |                  |                 |                 |                   |                 |                | 2,92             | 2,14              | 1,46            | 1,07            |                   |                 |                 |                 |                 |                 |
| MKH 3140-40,9 |                  |                  |                 |                 |                   |                 | 3,08           | 2,24             | 1,64              | 1,12            |                 |                   |                 |                 |                 |                 |                 |
| MKH 3140-50,7 |                  |                  |                 |                 |                   | 3,12            | 2,34           | 1,70             | 1,25              |                 |                 |                   |                 |                 |                 |                 |                 |
| MKH 3140-63,8 |                  |                  |                 |                 | 3,33              | 2,44            | 1,83           | 1,33             | 0,98              |                 |                 |                   |                 |                 |                 |                 |                 |
| MKH 3140-78,2 |                  |                  |                 |                 | 2,69              | 1,97            | 1,48           | 1,08             |                   |                 |                 |                   |                 |                 |                 |                 |                 |
| MKH 3140-98,2 |                  |                  |                 |                 | 2,17              | 1,59            | 1,19           |                  |                   |                 |                 |                   |                 |                 |                 |                 |                 |
| MKH 3140-120  |                  |                  |                 |                 | 1,73              | 1,27            | 0,95           |                  |                   |                 |                 |                   |                 |                 |                 |                 |                 |
| MKH 2160-6,43 |                  |                  |                 |                 |                   |                 |                |                  |                   |                 |                 |                   |                 | 2,80            | 2,27            | 1,86            |                 |
| MKH 2160-7,93 |                  |                  |                 |                 |                   |                 |                |                  |                   |                 |                 |                   |                 | 2,69            | 2,18            | 1,80            |                 |
| MKH 2160-10,2 |                  |                  |                 |                 |                   |                 |                |                  |                   |                 |                 |                   |                 | 3,12            | 2,29            | 1,86            | 1,53            |
| MKH 2160-12,9 |                  |                  |                 |                 |                   |                 |                |                  |                   |                 | 3,56            | 2,89              | 2,43            | 1,78            | 1,44            | 1,19            |                 |
| MKH 2160-15,8 |                  |                  |                 |                 |                   |                 |                |                  |                   |                 | 2,85            | 2,31              | 1,94            | 1,42            | 1,16            | 0,95            |                 |
| MKH 2160-20,4 |                  |                  |                 |                 |                   |                 |                |                  |                   | 2,78            | 2,04            | 1,65              | 1,39            | 1,02            |                 |                 |                 |
| MKH 3160-24,4 |                  |                  |                 |                 |                   |                 |                |                  |                   | 3,19            | 2,34            | 1,89              | 1,59            | 1,17            | 0,95            |                 |                 |
| MKH 3160-25,0 |                  |                  |                 |                 |                   |                 |                | 3,26             | 2,22              | 1,63            | 1,32            | 1,11              |                 |                 |                 |                 |                 |
| MKH 3160-31,7 |                  |                  |                 |                 |                   |                 |                | 3,63             | 2,48              | 1,82            | 1,47            | 1,24              | 0,91            |                 |                 |                 |                 |
| MKH 3160-41,7 |                  |                  |                 |                 |                   |                 |                | 2,78             | 1,90              | 1,39            | 1,13            | 0,95              |                 |                 |                 |                 |                 |
| MKH 3160-53,8 |                  |                  |                 |                 |                   |                 |                | 2,95             | 2,16              | 1,47            | 1,08            |                   |                 |                 |                 |                 |                 |
| MKH 3160-61,6 |                  |                  |                 |                 |                   |                 | 3,50           | 2,55             | 1,87              | 1,27            | 0,93            |                   |                 |                 |                 |                 |                 |
| MKH 3160-75,5 |                  |                  |                 |                 |                   | 3,43            | 2,57           | 1,87             | 1,37              | 0,93            |                 |                   |                 |                 |                 |                 |                 |
| MKH 3160-84,7 |                  |                  |                 |                 |                   | 3,37            | 2,53           | 1,84             | 1,35              | 0,92            |                 |                   |                 |                 |                 |                 |                 |
| MKH 3160-96,9 |                  |                  |                 |                 |                   | 2,91            | 2,18           | 1,59             | 1,16              |                 |                 |                   |                 |                 |                 |                 |                 |
| MKH 3160-118  |                  |                  |                 |                 | 2,92              | 2,14            | 1,61           | 1,17             |                   |                 |                 |                   |                 |                 |                 |                 |                 |
| MKH 2180-7,68 |                  |                  |                 |                 |                   |                 |                |                  |                   |                 |                 |                   |                 | 3,43            | 2,78            | 2,29            | 1,87            |
| MKH 2180-10,2 |                  |                  |                 |                 |                   |                 |                |                  |                   |                 |                 |                   |                 | 2,75            | 2,23            | 1,83            | 1,50            |
| MKH 2180-12,9 |                  |                  |                 |                 |                   |                 |                |                  |                   |                 |                 | 3,47              | 2,91            | 2,14            | 1,73            | 1,43            | 1,17            |
| MKH 2180-15,5 |                  |                  |                 |                 |                   |                 |                |                  |                   |                 |                 | 2,89              | 2,43            | 1,78            | 1,44            | 1,19            | 0,97            |
| MKH 2180-20,5 |                  |                  |                 |                 |                   |                 |                |                  |                   |                 | 2,65            | 2,15              | 1,80            | 1,32            | 1,07            |                 |                 |
| MKH 3180-24,5 |                  |                  |                 |                 |                   |                 |                |                  |                   |                 | 3,11            | 2,53              | 2,12            | 1,56            | 1,26            | 1,04            |                 |
| MKH 3180-24,6 |                  |                  |                 |                 |                   |                 |                |                  |                   | 3,05            | 2,24            | 1,82              | 1,53            | 1,12            | 0,91            |                 |                 |
| MKH 3180-31,8 |                  |                  |                 |                 |                   |                 |                |                  |                   | 3,27            | 2,40            | 1,94              | 1,64            | 1,20            | 0,97            |                 |                 |
| MKH 3180-41,8 |                  |                  |                 |                 |                   |                 |                |                  |                   | 2,49            | 1,83            | 1,48              | 1,25            | 0,91            |                 |                 |                 |
| MKH 3180-54,0 |                  |                  |                 |                 |                   |                 |                |                  | 2,82              | 1,93            | 1,41            | 1,14              | 0,96            |                 |                 |                 |                 |
| MKH 3180-61,8 |                  |                  |                 |                 |                   |                 |                | 3,36             | 2,46              | 1,68            | 1,23            | 1,00              |                 |                 |                 |                 |                 |
| MKH 3180-74,3 |                  |                  |                 |                 |                   |                 |                | 2,79             | 2,05              | 1,39            | 1,02            |                   |                 |                 |                 |                 |                 |
| MKH 3180-84,9 |                  |                  |                 |                 |                   |                 | 3,36           | 2,44             | 1,79              | 1,22            | 0,90            |                   |                 |                 |                 |                 |                 |
| MKH 3180-97,1 |                  |                  |                 |                 |                   |                 | 2,93           | 2,13             | 1,56              | 1,06            |                 |                   |                 |                 |                 |                 |                 |
| MKH 3180-116  |                  |                  |                 |                 |                   | 3,24            | 2,43           | 1,77             | 1,30              |                 |                 |                   |                 |                 |                 |                 |                 |



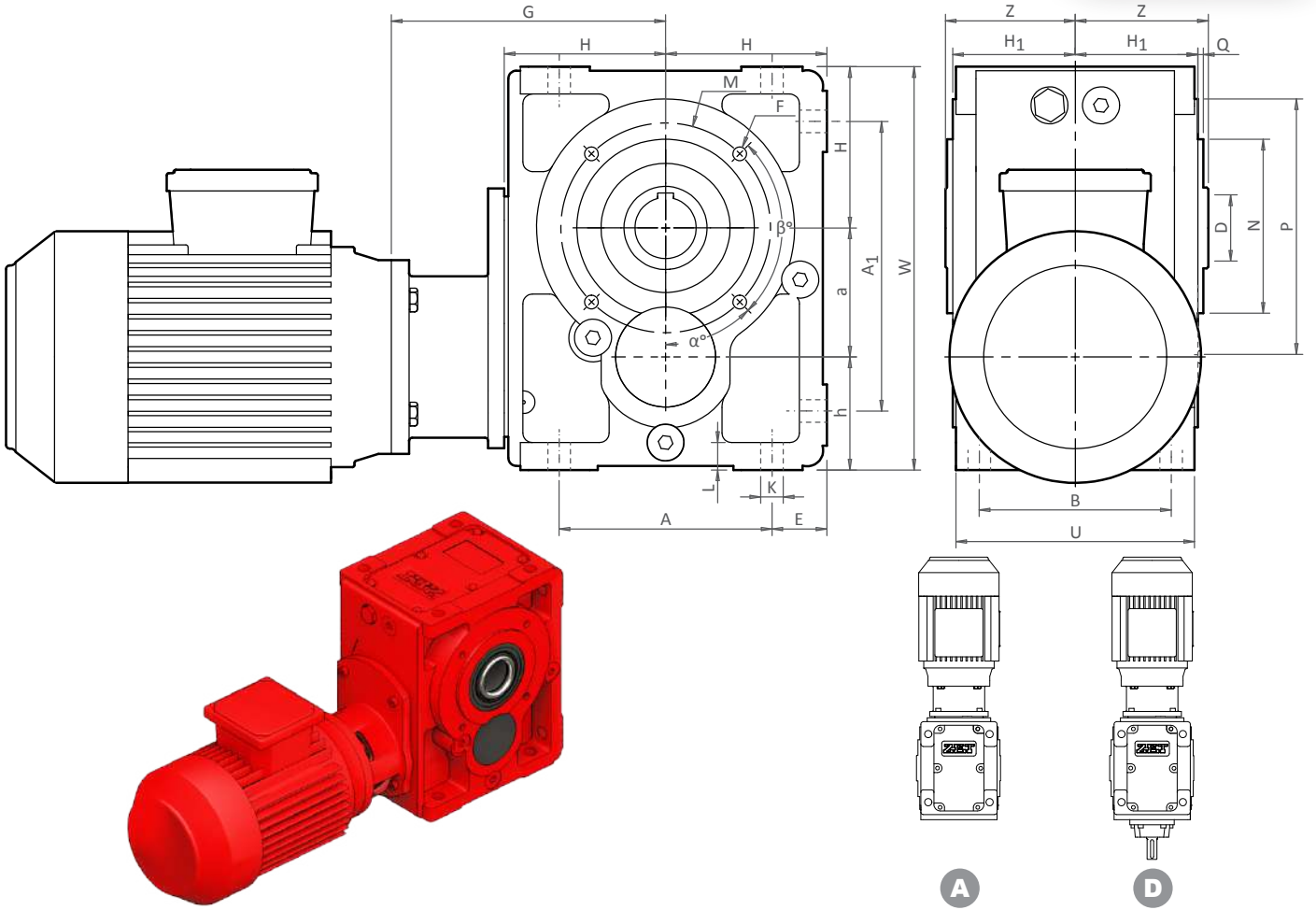


**MKH IEC Bağlantı Kombinasyonları / IEC Combinations**

|               | 5,5 kW<br>132 S4 | 7,5 kW<br>132 MA4 | 11 kW<br>160 M4 | 15 kW<br>160 L4 | 18,5 kW<br>180 M4 | 22 kW<br>180 L4 | 30 kW<br>200 L4 | 37 kW<br>225 S4 | 45 kW<br>225 M4 | 55 kW<br>250 M4 | 75 kW<br>280 S4 | 90 kW<br>280 M4 | 110 kW<br>315 S4 | 132 kW<br>315 MA4 | 160 kW<br>315 MB4 | 185 kW<br>315 LA4 | 200 kW<br>315 LB4 |
|---------------|------------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|-------------------|-------------------|-------------------|-------------------|
| MKH 2200-6,45 |                  |                   |                 |                 |                   |                 |                 |                 |                 | 3,28            | 2,58            | 2,15            |                  |                   |                   |                   |                   |
| MKH 2200-8,26 |                  |                   |                 |                 |                   |                 |                 |                 |                 | 2,40            | 2,40            | 2,00            |                  |                   |                   |                   |                   |
| MKH 2200-10,7 |                  |                   |                 |                 |                   |                 |                 |                 | 3,14            | 2,57            | 1,89            | 1,57            |                  |                   |                   |                   |                   |
| MKH 2200-13,2 |                  |                   |                 |                 |                   |                 |                 | 3,09            | 2,54            | 2,08            | 1,53            | 1,27            |                  |                   |                   |                   |                   |
| MKH 2200-15,7 |                  |                   |                 |                 |                   |                 | 3,16            | 2,56            | 2,10            | 1,72            | 1,26            | 1,05            |                  |                   |                   |                   |                   |
| MKH 2200-20,7 |                  |                   |                 |                 | 2,89              | 2,43            | 1,78            | 1,44            | 1,19            | 0,97            |                 |                 |                  |                   |                   |                   |                   |
| MKH 2200-24,6 |                  |                   |                 |                 | 2,48              | 2,08            | 1,53            | 1,24            | 1,02            |                 |                 |                 |                  |                   |                   |                   |                   |
| MKH 3200-26,5 |                  |                   |                 |                 | 3,45              | 2,90            | 2,13            | 1,73            | 1,42            | 1,16            |                 |                 |                  |                   |                   |                   |                   |
| MKH 3200-32,7 |                  |                   |                 | 3,43            | 2,78              | 2,34            | 1,71            | 1,39            | 1,14            | 0,93            |                 |                 |                  |                   |                   |                   |                   |
| MKH 3200-41,2 |                  |                   |                 | 2,75            | 2,23              | 1,88            | 1,38            | 1,12            | 0,92            |                 |                 |                 |                  |                   |                   |                   |                   |
| MKH 3200-53,1 |                  |                   | 2,90            | 2,13            | 1,73              | 1,45            | 1,06            |                 |                 |                 |                 |                 |                  |                   |                   |                   |                   |
| MKH 3200-61,8 |                  |                   | 2,48            | 1,82            | 1,47              | 1,24            | 0,91            |                 |                 |                 |                 |                 |                  |                   |                   |                   |                   |
| MKH 3200-73,6 |                  | 2,91              | 1,98            | 1,45            | 1,18              | 0,99            |                 |                 |                 |                 |                 |                 |                  |                   |                   |                   |                   |
| MKH 3200-84,3 |                  | 2,70              | 1,84            | 1,35            | 1,09              | 0,92            |                 |                 |                 |                 |                 |                 |                  |                   |                   |                   |                   |
| MKH 3200-98,1 | 3,12             | 2,28              | 1,56            | 1,14            | 0,93              |                 |                 |                 |                 |                 |                 |                 |                  |                   |                   |                   |                   |
| MKH 3200-117  | 2,49             | 1,83              | 1,25            | 0,91            |                   |                 |                 |                 |                 |                 |                 |                 |                  |                   |                   |                   |                   |
| MKH 3225-26,6 |                  |                   |                 |                 |                   |                 | 2,75            | 2,23            | 1,83            |                 |                 |                 |                  |                   |                   |                   |                   |
| MKH 3225-32,8 |                  |                   |                 |                 |                   | 3,04            | 2,23            | 1,81            | 1,49            |                 |                 |                 |                  |                   |                   |                   |                   |
| MKH 3225-41,3 |                  |                   |                 |                 | 3,16              | 2,65            | 1,95            | 1,58            | 1,30            |                 |                 |                 |                  |                   |                   |                   |                   |
| MKH 3225-53,2 |                  |                   |                 | 3,01            | 2,44              | 2,05            | 1,51            | 1,22            | 1,00            |                 |                 |                 |                  |                   |                   |                   |                   |
| MKH 3225-61,9 |                  |                   | 3,40            | 2,49            | 2,02              | 1,70            | 1,25            | 1,01            |                 |                 |                 |                 |                  |                   |                   |                   |                   |
| MKH 3225-74,8 |                  |                   | 2,83            | 2,08            | 1,68              | 1,42            | 1,04            |                 |                 |                 |                 |                 |                  |                   |                   |                   |                   |
| MKH 3225-84,5 |                  |                   | 2,55            | 1,87            | 1,52              | 1,27            | 0,93            |                 |                 |                 |                 |                 |                  |                   |                   |                   |                   |
| MKH 3225-98,3 |                  | 3,12              | 2,12            | 1,56            | 1,26              | 1,06            |                 |                 |                 |                 |                 |                 |                  |                   |                   |                   |                   |
| MKH 3225-118  | 3,54             | 2,60              | 1,77            | 1,30            | 1,05              |                 |                 |                 |                 |                 |                 |                 |                  |                   |                   |                   |                   |
| MKH 2250-7,52 |                  |                   |                 |                 |                   |                 |                 |                 |                 |                 |                 |                 | 3,27             | 2,72              | 2,25              | 1,94              | 1,80              |
| MKH 2250-9,82 |                  |                   |                 |                 |                   |                 |                 |                 |                 |                 |                 |                 | 3,26             | 2,72              | 2,24              | 1,94              | 1,79              |
| MKH 2250-12,6 |                  |                   |                 |                 |                   |                 |                 |                 |                 |                 | 3,25            | 2,71            | 2,21             | 1,85              | 1,52              | 1,32              | 1,22              |
| MKH 2250-15,7 |                  |                   |                 |                 |                   |                 |                 |                 |                 | 3,37            | 2,47            | 2,06            | 1,69             | 1,41              | 1,16              | 1,00              | 0,93              |
| MKH 2250-19,9 |                  |                   |                 |                 |                   |                 |                 | 3,53            | 2,90            | 2,37            | 1,74            | 1,45            | 1,19             | 0,99              |                   |                   |                   |
| MKH 2250-24,9 |                  |                   |                 |                 |                   |                 | 3,81            | 3,09            | 2,54            | 2,08            | 1,52            | 1,27            | 1,04             |                   |                   |                   |                   |
| MKH 3250-26,2 |                  |                   |                 |                 |                   |                 | 4,94            | 4,00            | 3,29            | 2,69            | 1,97            | 1,65            | 1,35             | 1,12              |                   |                   |                   |
| MKH 3250-33,6 |                  |                   |                 |                 |                   |                 | 3,81            | 3,09            | 2,54            | 2,08            | 1,52            | 1,27            | 1,04             |                   |                   |                   |                   |
| MKH 3250-41,6 |                  |                   |                 |                 |                   | 3,94            | 2,89            | 2,35            | 1,93            | 1,58            | 1,16            | 0,96            |                  |                   |                   |                   |                   |
| MKH 3250-53,7 |                  |                   |                 |                 | 3,84              | 3,23            | 2,37            | 1,92            | 1,58            | 1,29            | 0,95            |                 |                  |                   |                   |                   |                   |
| MKH 3250-64,0 |                  |                   |                 | 3,91            | 3,17              | 2,67            | 1,96            | 1,59            | 1,30            | 1,07            |                 |                 |                  |                   |                   |                   |                   |
| MKH 3250-80,0 |                  |                   | 3,23            | 2,37            | 1,92              | 1,61            | 1,18            | 0,96            |                 |                 |                 |                 |                  |                   |                   |                   |                   |
| MKH 3250-84,0 |                  |                   | 3,45            | 2,53            | 2,05              | 1,72            | 1,26            | 1,02            |                 |                 |                 |                 |                  |                   |                   |                   |                   |
| MKH 3250-100  |                  |                   | 3,45            | 2,53            | 2,05              | 1,73            | 1,27            | 1,03            |                 |                 |                 |                 |                  |                   |                   |                   |                   |
| MKH 3250-125  |                  | 3,23              | 2,20            | 1,61            | 1,31              | 1,10            |                 |                 |                 |                 |                 |                 |                  |                   |                   |                   |                   |
| MKH 2280-8,10 |                  |                   |                 |                 |                   |                 |                 |                 |                 |                 |                 |                 |                  | 3,35              | 2,77              | 2,39              | 2,21              |
| MKH 2280-10,3 |                  |                   |                 |                 |                   |                 |                 |                 |                 |                 |                 |                 |                  | 3,08              | 2,54              | 2,20              | 2,03              |
| MKH 2280-12,9 |                  |                   |                 |                 |                   |                 |                 |                 |                 |                 |                 | 3,15            | 2,57             | 2,14              | 1,77              | 1,53              | 1,42              |
| MKH 2280-16,1 |                  |                   |                 |                 |                   |                 |                 |                 |                 |                 |                 | 3,00            | 2,45             | 2,04              | 1,69              | 1,46              | 1,35              |
| MKH 2280-19,9 |                  |                   |                 |                 |                   |                 |                 |                 |                 | 3,20            | 2,35            | 1,96            | 1,60             | 1,33              | 1,10              |                   |                   |
| MKH 2280-24,8 |                  |                   |                 |                 |                   |                 |                 |                 |                 | 2,93            | 2,15            | 1,79            | 1,46             | 1,22              | 1,01              |                   |                   |
| MKH 3280-25,6 |                  |                   |                 |                 |                   |                 |                 |                 |                 | 3,71            | 2,72            | 2,27            | 1,86             | 1,55              | 1,28              | 1,10              | 1,02              |
| MKH 3280-32,8 |                  |                   |                 |                 |                   |                 |                 |                 |                 | 2,94            | 2,15            | 1,79            | 1,47             | 1,22              | 1,01              |                   |                   |
| MKH 3280-42,0 |                  |                   |                 |                 |                   |                 |                 | 3,26            | 2,68            | 2,19            | 1,61            | 1,34            | 1,10             |                   |                   |                   |                   |
| MKH 3280-54,2 |                  |                   |                 |                 |                   |                 | 3,26            | 2,64            | 2,17            | 1,78            | 1,30            | 1,09            |                  |                   |                   |                   |                   |
| MKH 3280-64,5 |                  |                   |                 |                 |                   |                 | 2,74            | 2,22            | 1,82            | 1,49            | 1,09            |                 |                  |                   |                   |                   |                   |
| MKH 3280-79,7 |                  |                   |                 |                 |                   | 3,06            | 2,25            | 1,82            | 1,50            | 1,23            |                 |                 |                  |                   |                   |                   |                   |
| MKH 3280-84,0 |                  |                   |                 | 2,96            | 2,49              | 1,82            | 1,48            | 1,22            | 0,99            |                 |                 |                 |                  |                   |                   |                   |                   |
| MKH 3280-101  |                  |                   | 3,35            | 2,71            | 2,28              | 1,67            | 1,36            | 1,12            |                 |                 |                 |                 |                  |                   |                   |                   |                   |
| MKH 3280-125  |                  | 3,24              | 2,38            | 1,93            | 1,62              | 1,19            |                 |                 |                 |                 |                 |                 |                  |                   |                   |                   |                   |
| MKH 2320-6,15 |                  |                   |                 |                 |                   |                 |                 |                 |                 |                 |                 |                 |                  |                   |                   |                   | 3,54              |
| MKH 2320-7,50 |                  |                   |                 |                 |                   |                 |                 |                 |                 |                 |                 |                 |                  |                   |                   |                   | 3,34              |
| MKH 2320-9,83 |                  |                   |                 |                 |                   |                 |                 |                 |                 |                 |                 |                 |                  |                   |                   | 3,57              | 3,30              |
| MKH 2320-12,6 |                  |                   |                 |                 |                   |                 |                 |                 |                 |                 |                 |                 |                  |                   | 3,37              | 2,91              | 2,69              |
| MKH 2320-15,3 |                  |                   |                 |                 |                   |                 |                 |                 |                 |                 |                 |                 |                  | 3,22              | 2,66              | 2,30              | 2,13              |
| MKH 2320-19,8 |                  |                   |                 |                 |                   |                 |                 |                 |                 |                 | 3,44            | 2,87            | 2,34             | 1,95              | 1,61              | 1,39              | 1,29              |
| MKH 2320-24,1 |                  |                   |                 |                 |                   |                 |                 |                 |                 |                 | 3,05            | 2,54            | 2,08             | 1,73              | 1,43              | 1,24              | 1,14              |
| MKH 3320-26,5 |                  |                   |                 |                 |                   |                 |                 |                 |                 |                 |                 | 3,17            | 2,59             | 2,16              | 1,78              | 1,54              | 1,42              |
| MKH 3320-32,7 |                  |                   |                 |                 |                   |                 |                 |                 |                 |                 | 3,11            | 2,59            | 2,12             | 1,77              | 1,46              | 1,26              | 1,17              |
| MKH 3320-40,2 |                  |                   |                 |                 |                   |                 |                 |                 |                 | 3,45            | 2,53            | 2,11            | 1,72             | 1,44              | 1,18              | 1,02              |                   |
| MKH 3320-52,6 |                  |                   |                 |                 |                   |                 |                 |                 | 3,29            | 2,69            | 1,98            | 1,65            | 1,35             | 1,12              |                   |                   |                   |
| MKH 3320-65,7 |                  |                   |                 |                 |                   |                 |                 | 3,20            | 2,63            | 2,16            | 1,58            | 1,32            | 1,08             |                   |                   |                   |                   |
| MKH 3320-79,7 |                  |                   |                 |                 |                   |                 | 2,83            | 2,30            | 1,89            | 1,55            | 1,13            |                 |                  |                   |                   |                   |                   |
| MKH 3320-84,5 |                  |                   |                 |                 |                   |                 | 3,07            | 2,49            | 2,05            | 1,68            | 1,23            | 1,02            |                  |                   |                   |                   |                   |
| MKH 3320-106  |                  |                   |                 |                 |                   | 3,36            | 2,46            | 2,00            | 1,64            | 1,34            |                 |                 |                  |                   |                   |                   |                   |
| MKH 3320-128  |                  |                   | 3,53            | 2,86            | 2,41              | 1,76            | 1,43            | 1,18            |                 |                 |                 |                 |                  |                   |                   |                   |                   |
| MKH 2360-7,53 |                  |                   |                 |                 |                   |                 |                 |                 |                 |                 |                 |                 |                  |                   |                   |                   | 4,05              |
| MKH 2360-10,1 |                  |                   |                 |                 |                   |                 |                 |                 |                 |                 |                 |                 |                  |                   |                   |                   | 3,74              |
| MKH 2360-13,0 |                  |                   |                 |                 |                   |                 |                 |                 |                 |                 |                 |                 |                  |                   |                   | 3,15              | 2,92              |
| MKH 2360-15,1 |                  |                   |                 |                 |                   |                 |                 |                 |                 |                 |                 |                 |                  |                   | 3,48              | 3,01              | 2,78              |
| MKH 2360-20,4 |                  |                   |                 |                 |                   |                 |                 |                 |                 |                 |                 | 3,42            | 2,79             | 2,33              | 1,92              | 1,66              | 1,54              |
| MKH 2360-23,7 |                  |                   |                 |                 |                   |                 |                 |                 |                 |                 |                 | 3,11            | 2,55             | 2,12              | 1,75              | 1,51              | 1,40              |
| MKH 3360-27,2 |                  |                   |                 |                 |                   |                 |                 |                 |                 |                 |                 | 4,13            | 3,38             | 2,82              | 2,32              | 2,01              | 1,86              |
| MKH 3360-33,6 |                  |                   |                 |                 |                   |                 |                 |                 |                 |                 |                 | 3,61            | 2,95             | 2,46              | 2,03              | 1,76              | 1,62              |
| MKH 3360-41,3 |                  |                   |                 |                 |                   |                 |                 |                 |                 |                 | 3,01            | 2,51            | 2,06             | 1,71              | 1,41              | 1,22              | 1,13              |
| MKH 3360-540  |                  |                   |                 |                 |                   |                 |                 |                 |                 |                 | 2,69            | 2,24            | 1,84             | 1,53              | 1,26              | 1,09              | 1,01              |
| MKH 3360-67,5 |                  |                   |                 |                 |                   |                 |                 |                 | 2,94            | 2,15            | 1,80            | 1,47            | 1,22             | 1,01              |                   |                   |                   |
| MKH 3360-78,6 |                  |                   |                 |                 |                   |                 |                 | 3,48            | 2,86            | 2,34            | 1,72            | 1,43            | 1,17             |                   |                   |                   |                   |
| MKH 3360-86,7 |                  |                   |                 |                 |                   |                 |                 | 2,91            | 2,39            | 1,96            | 1,44            | 1,20            | 0,98             |                   |                   |                   |                   |
| MKH 3360-108  |                  |                   |                 |                 |                   |                 | 3,26            | 2,64            | 2,17            | 1,78            | 1,30            | 1,09            |                  |                   |                   |                   |                   |
| MKH 3360-126  |                  |                   |                 |                 |                   |                 | 2,51            | 2,03            | 1,67            | 1,37            | 1,00            |                 |                  |                   |                   |                   |                   |



## ■ MKH 2063 - 2100 Ölçü Tabloları / Dimension Tables



| Gövde Büyüklüğü<br>Size | a   | A   | A <sub>1</sub> | B   | D<br>[H7] | E  | F        | H<br>[h10] | H <sub>1</sub><br>[H11] | h<br>[h10] | K  | L  | M   | N<br>[h6] | P   |
|-------------------------|-----|-----|----------------|-----|-----------|----|----------|------------|-------------------------|------------|----|----|-----|-----------|-----|
| 2063                    | 63  | 102 | 147            | 100 | 30        | 29 | 4xM8↓16  | 80         | 64                      | 62         | 12 | 14 | 100 | 80        | 120 |
| 2080                    | 80  | 132 | 182            | 119 | 38        | 34 | 4xM10↓18 | 100        | 76                      | 70         | 14 | 17 | 130 | 110       | 160 |
| 2100                    | 100 | 172 | 227            | 144 | 48        | 39 | 4xM12↓24 | 125        | 91                      | 80         | 18 | 20 | 165 | 130       | 200 |

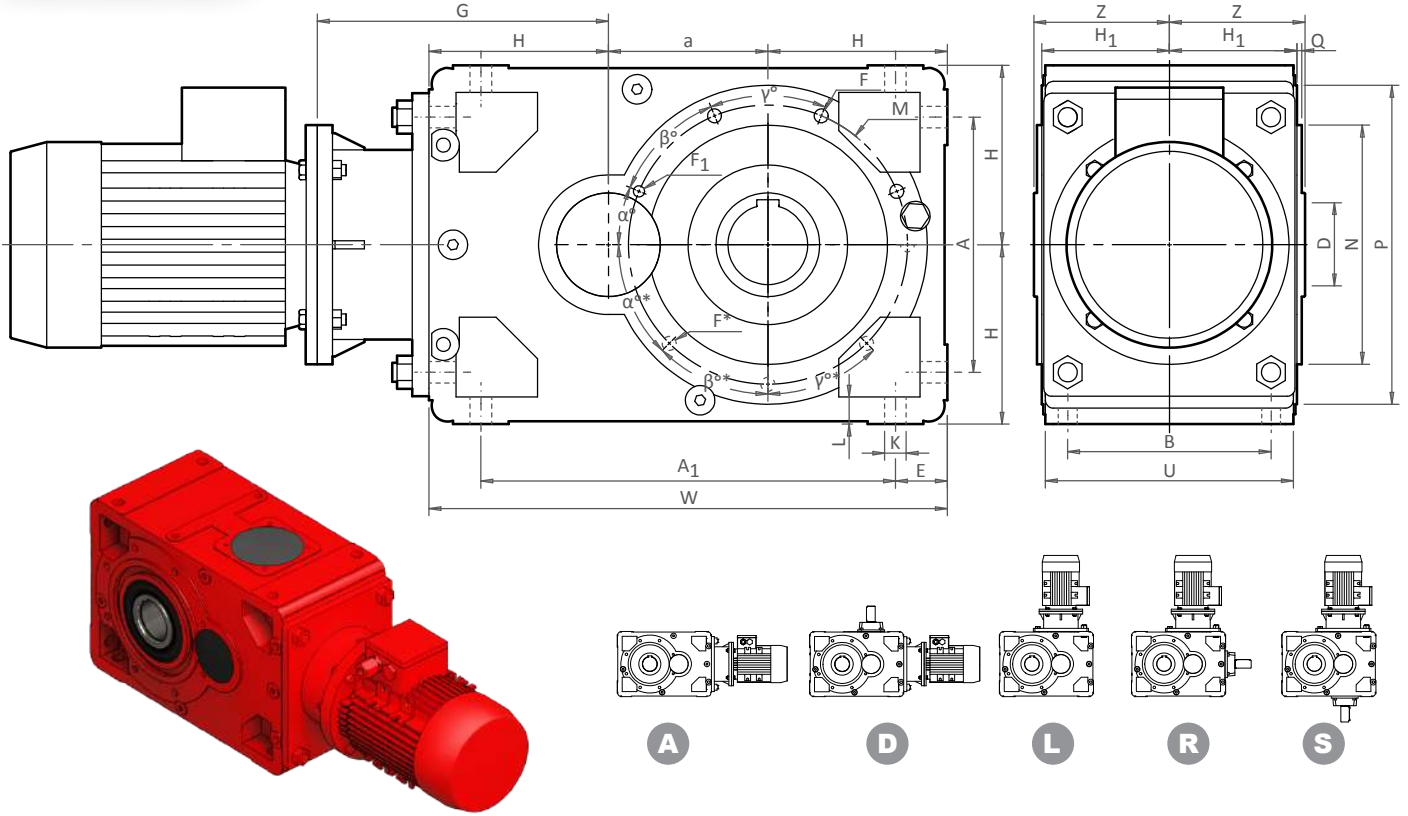
| Gövde<br>Büyüklüğü<br>Size | Q | U   | α° | β° | W<br>[h10] | Z  | G      |         |        |        |         |        |             |         |        |         |         |        | Ağırlık<br>Weight<br>[kg] |
|----------------------------|---|-----|----|----|------------|----|--------|---------|--------|--------|---------|--------|-------------|---------|--------|---------|---------|--------|---------------------------|
|                            |   |     |    |    |            |    | 80 B14 |         |        | 90 B14 |         |        | 100/112 B14 |         |        | 132 B14 |         |        |                           |
|                            |   |     |    |    |            |    | i > 17 | 17>i>11 | i < 11 | i > 17 | 17>i>11 | i < 11 | i > 17      | 17>i>11 | i < 11 | i > 17  | 17>i>11 | i < 11 |                           |
| 2063                       | 3 | 124 | 45 | 90 | 205        | 68 | 192    | 199     | -      | 202    | 209     | 209    | -           | -       | -      | -       | -       | 20     |                           |
| 2080                       | 4 | 148 | 45 | 90 | 250        | 82 | -      | -       | -      | 226    | 226     | -      | 236         | 236     | 246    | -       | -       | 30     |                           |
| 2100                       | 4 | 178 | 45 | 90 | 305        | 97 | -      | -       | -      | -      | -       | -      | 267         | 277     | -      | 287     | 297     | 307    | 60                        |

## ● Montaj Pozisyonları ve Yağlama Miktarı [l] / Mounting Position and Lubrication [l]

| Gövde Büyüklüğü<br>Size | M3  | M4  | M5  | M6  | M7  | M8  |
|-------------------------|-----|-----|-----|-----|-----|-----|
|                         |     |     |     |     |     |     |
| 2063                    | 0,9 | 1,1 | 0,9 | 0,9 | 1,1 | 1,1 |
| 2080                    | 1,5 | 2,2 | 1,5 | 1,5 | 2   | 2   |
| 2100                    | 2,9 | 4,2 | 3,2 | 3,2 | 3,9 | 3,9 |



**MKH 2125 - 2360 Ölçü Tabloları / Dimension Tables**



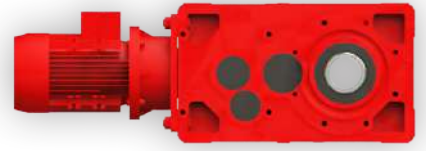
| Gövde<br>Büyüküğü<br>Size | a   | A   | A <sub>1</sub> | B   | D<br>[H7] | E   | F         | F <sub>1</sub> | H<br>[h10] | H <sub>1</sub><br>[H11] | K  | L  | M   | N<br>[h6] | P   | Q  | U   | α°   | β°   | γ°  | W<br>[h10] | Z   | G      |         |      |
|---------------------------|-----|-----|----------------|-----|-----------|-----|-----------|----------------|------------|-------------------------|----|----|-----|-----------|-----|----|-----|------|------|-----|------------|-----|--------|---------|------|
|                           |     |     |                |     |           |     |           |                |            |                         |    |    |     |           |     |    |     |      |      |     |            |     | 132 B5 |         |      |
|                           |     |     |                |     |           |     |           |                |            |                         |    |    |     |           |     |    |     |      |      |     |            |     | i>17   | 17>i>11 | i<11 |
| 2125                      | 125 | 212 | 337            | 168 | 60        | 44  | 7xM12↓24* | -              | 150        | 107                     | 18 | 23 | 215 | 180       | 250 | 4  | 207 | 45*  | 45*  | 45* | 425        | 113 | 348    | 368     | 388  |
| 2140                      | 140 | 212 | 352            | 168 | 70        | 44  | 6xM14↓30  | 2xM12↓30       | 150        | 107                     | 18 | 23 | 265 | 230       | 300 | 4  | 205 | 23,5 | 44   | 45  | 440        | 114 | 348    | -       | -    |
| 2160                      | 160 | 252 | 412            | 220 | 80        | 54  | 6xM16↓32  | 2xM12↓32       | 180        | 136                     | 22 | 28 | 265 | 230       | 300 | 5  | 264 | 25   | 42,5 | 45  | 520        | 145 | 415    | -       | -    |
| 2180                      | 180 | 252 | 432            | 220 | 90        | 54  | 8xM16↓32  | -              | 180        | 136                     | 22 | 28 | 300 | 250       | 350 | 10 | 264 | 22,5 | 45   | 45  | 540        | 150 | -      | -       | -    |
| 2200                      | 200 | 320 | 520            | 255 | 100       | 65  | 6xM20↓40  | 2xM16↓40       | 225        | 160                     | 27 | 34 | 350 | 300       | 400 | 6  | 311 | 22,5 | 45   | 45  | 650        | 170 | -      | -       | -    |
| 2250                      | 250 | 396 | 646            | 310 | 125       | 82  | 6xM24↓60  | 2xM20↓60       | 280        | 195                     | 33 | 42 | 500 | 450       | 550 | 22 | 380 | 25,5 | 42   | 45  | 810        | 222 | -      | -       | -    |
| 2280                      | 280 | 396 | 676            | 330 | 140       | 82  | 6xM24↓60  | 2xM18↓60       | 280        | 205                     | 33 | 42 | 500 | 450       | 550 | 22 | 400 | 22,5 | 45   | 45  | 840        | 232 | -      | -       | -    |
| 2320                      | 320 | 510 | 830            | 406 | 160       | 100 | 8xM30↓60  | -              | 355        | 251                     | 39 | 52 | 600 | 550       | 660 | 20 | 490 | 30   | 37,5 | 45  | 1030       | 276 | -      | -       | -    |
| 2360                      | 360 | 510 | 870            | 421 | 180       | 100 | 8xM30↓48  | -              | 355        | 261                     | 39 | 52 | 600 | 550       | 660 | 20 | 505 | 30   | 37,5 | 45  | 1070       | 286 | -      | -       | -    |

| Gövde<br>Büyüklüğü<br>Size | G      |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     | Ağırlık<br>Weight<br>[kg] |
|----------------------------|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|---------------------------|
|                            | 160 B5 |       |     | 180 B5 |       |     | 200 B5 |       |     | 225 B5 |       |     | 250 B5 |       |     | 280 B5 |       |     | 315 B5 |       |     |                           |
|                            | ➤17    | 17➤11 | ◀11 | ➤17    | 17➤11 | ◀11 | ➤17    | 17➤11 | ◀11 | ➤17    | 17➤11 | ◀11 | ➤17    | 17➤11 | ◀11 | ➤17    | 17➤11 | ◀11 | ➤17    | 17➤11 | ◀11 |                           |
| 2125                       | 388    | 408   | 428 | -      | 408   | 428 | -      | -     | -   | -      | -     | -   | -      | -     | -   | -      | -     | -   | -      | -     | -   | 130                       |
| 2140                       | 388    | 408   | 428 | 390    | 408   | 428 | -      | 408   | 428 | -      | -     | -   | -      | -     | -   | -      | -     | -   | -      | -     | -   | 140                       |
| 2160                       | 441    | 459   | -   | 441    | 459   | 459 | 439    | 459   | 459 | 478    | 494   | 494 | -      | -     | -   | -      | -     | -   | -      | -     | -   | 220                       |
| 2180                       | 441    | -     | -   | 441    | 459   | -   | 439    | 459   | 459 | 479    | 494   | 494 | -      | 493   | 493 | -      | -     | -   | -      | -     | -   | 250                       |
| 2200                       | -      | -     | -   | 504    | -     | -   | 508    | 545   | -   | 538    | 575   | 575 | 545    | 577   | 577 | -      | 577   | 577 | -      | -     | -   | 390                       |
| 2250                       | -      | -     | -   | -      | -     | -   | 622    | -     | -   | 652    | -     | -   | 626    | 686   | -   | 626    | 686   | -   | 657    | 717   | 717 | 753                       |
| 2280                       | -      | -     | -   | -      | -     | -   | -      | -     | -   | -      | -     | -   | 626    | -     | -   | 626    | 686   | -   | 657    | 717   | 717 | 825                       |
| 2320                       | -      | -     | -   | -      | -     | -   | -      | -     | -   | -      | -     | -   | -      | -     | -   | 724    | -     | -   | 758    | 808   | 808 | 1390                      |
| 2360                       | -      | -     | -   | -      | -     | -   | -      | -     | -   | -      | -     | -   | -      | -     | -   | 727    | -     | -   | 758    | 808   | 808 | 1520                      |

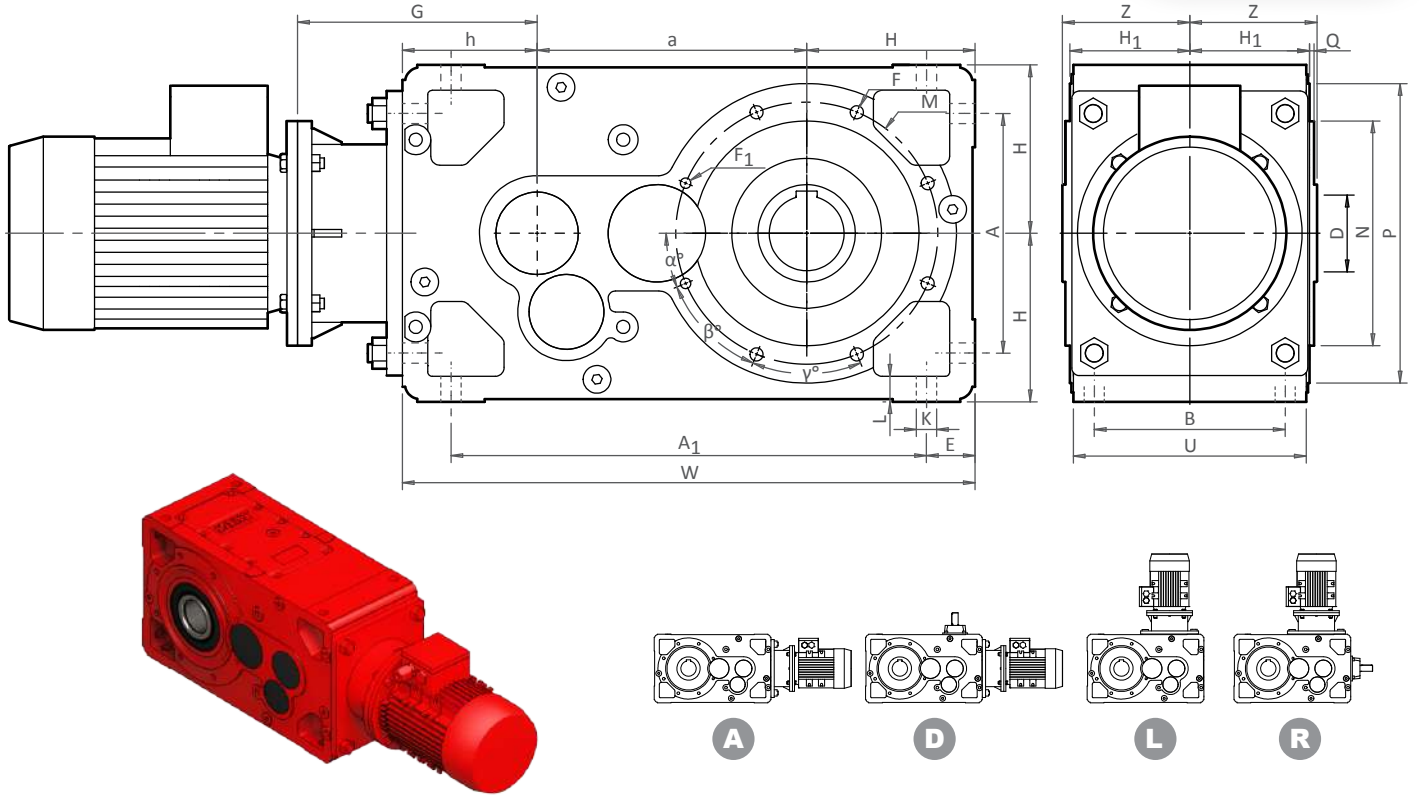
\* 125 gövde flanş geometrisidir.  
\* Flange geometry of size 125

**Montaj Pozisyonları ve Yağlama Miktarı [l] / Mounting Position and Lubrication [l]**

| Gövde<br>Büyüküğü<br>Size | M3   | M4   | M5   | M6   | M7   | M8   |
|---------------------------|------|------|------|------|------|------|
| 2125                      |      |      |      |      |      |      |
| 2140                      | 4,4  | 4,4  | 5,8  | 6,5  | 6,5  | 6,5  |
| 2160                      | 5    | 5    | 8    | 9    | 9    | 9    |
| 2180                      | 8,5  | 8,5  | 11,3 | 12,5 | 12,5 | 12,5 |
| 2200                      | 9,6  | 9,6  | 15,7 | 17,5 | 17,5 | 17,5 |
| 2250                      | 15,3 | 15,3 | 20,4 | 22,9 | 22,9 | 22,9 |
| 2280                      | 28   | 28   | 38   | 43   | 43   | 43   |
| 2320                      | 34   | 34   | 56   | 64   | 64   | 64   |
| 2360                      | 56   | 56   | 75   | 84   | 84   | 84   |
| 2360                      | 63   | 63   | 105  | 117  | 117  | 117  |



## ■ MKH 3140 - 3360 Ölçü Tabloları / Dimension Tables

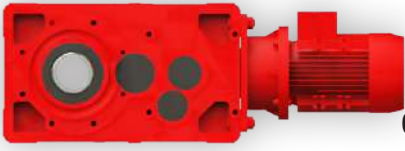


| Gövde<br>Büyüküğü<br>Size | a   | A   | A <sub>1</sub> | B   | D<br>[H7] | E   | F                     | F <sub>1</sub>        | H<br>[h10] | H <sub>1</sub><br>[H11] | h<br>[h10] | K  | L  | M   | N<br>[h6] | P   | Q  | U   | $\alpha^\circ$ | $\beta^\circ$ | $\gamma^\circ$ | W<br>[h10] | Z   | G          |       |     |
|---------------------------|-----|-----|----------------|-----|-----------|-----|-----------------------|-----------------------|------------|-------------------------|------------|----|----|-----|-----------|-----|----|-----|----------------|---------------|----------------|------------|-----|------------|-------|-----|
|                           |     |     |                |     |           |     |                       |                       |            |                         |            |    |    |     |           |     |    |     |                |               |                |            |     | 100/112 B5 |       |     |
|                           |     |     |                |     |           |     |                       |                       |            |                         |            |    |    |     |           |     |    |     |                |               |                |            |     | >80        | 80>40 | <40 |
| 3140                      | 240 | 212 | 427            | 168 | 70        | 44  | 6xM14 $\downarrow$ 30 | 2xM12 $\downarrow$ 30 | 150        | 107                     | 125        | 18 | 23 | 265 | 230       | 300 | 4  | 205 | 23,5           | 44            | 45             | 515        | 114 | 277        | 287   | -   |
| 3160                      | 285 | 252 | 507            | 220 | 80        | 54  | 6xM16 $\downarrow$ 32 | 2xM12 $\downarrow$ 32 | 180        | 136                     | 150        | 22 | 28 | 265 | 230       | 300 | 5  | 264 | 25             | 42,5          | 45             | 615        | 145 | 327        | 347   | -   |
| 3180                      | 305 | 252 | 527            | 220 | 90        | 54  | 8xM16 $\downarrow$ 32 | -                     | 180        | 136                     | 150        | 22 | 28 | 300 | 250       | 350 | 10 | 264 | 22,5           | 45            | 45             | 635        | 150 | 327        | -     | -   |
| 3200                      | 360 | 320 | 635            | 255 | 100       | 65  | 6xM20 $\downarrow$ 40 | 2xM16 $\downarrow$ 40 | 225        | 160                     | 180        | 27 | 34 | 350 | 300       | 400 | 6  | 311 | 22,5           | 45            | 45             | 765        | 170 | -          | -     | -   |
| 3225                      | 385 | 320 | 660            | 255 | 110       | 65  | 6xM20 $\downarrow$ 42 | 2xM16 $\downarrow$ 42 | 225        | 160                     | 180        | 27 | 34 | 400 | 350       | 450 | 6  | 311 | 22,5           | 45            | 45             | 790        | 170 | -          | -     | -   |
| 3250                      | 450 | 396 | 791            | 310 | 125       | 82  | 6xM24 $\downarrow$ 60 | 2xM20 $\downarrow$ 60 | 280        | 195                     | 225        | 33 | 42 | 500 | 450       | 550 | 22 | 380 | 25,5           | 42            | 45             | 955        | 222 | -          | -     | -   |
| 3280                      | 480 | 396 | 821            | 330 | 140       | 82  | 6xM24 $\downarrow$ 60 | 2xM18 $\downarrow$ 60 | 280        | 205                     | 225        | 33 | 42 | 500 | 450       | 550 | 22 | 400 | 22,5           | 45            | 45             | 985        | 232 | -          | -     | -   |
| 3320                      | 570 | 510 | 1005           | 406 | 160       | 100 | 8xM30 $\downarrow$ 60 | -                     | 355        | 251                     | 280        | 39 | 52 | 600 | 550       | 660 | 20 | 490 | 30             | 37,5          | 45             | 1205       | 276 | -          | -     | -   |
| 3360                      | 610 | 510 | 1045           | 421 | 180       | 100 | 8xM30 $\downarrow$ 60 | -                     | 355        | 261                     | 280        | 39 | 52 | 600 | 550       | 660 | 20 | 505 | 30             | 37,5          | 45             | 1245       | 286 | -          | -     | -   |

| Gövde<br>Büyüküğü<br>Size | 132 B5 |       |     | 160 B5 |       |     | 180 B5 |       |     | 200 B5 |       |     | 225 B5 |       |     | 250 B5 |       |     | 280 B5 |       |     | 315 B5 |       |     | Ağırlık<br>Weight<br>[kg] |
|---------------------------|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|--------|-------|-----|---------------------------|
|                           | >80    | 80>40 | <40 | >80    | 80>40 | <40 | >80    | 80>40 | <40 | >80    | 80>40 | <40 | >80    | 80>40 | <40 | >80    | 80>40 | <40 | >80    | 80>40 | <40 | >80    | 80>40 | <40 |                           |
|                           |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |        |       |     |                           |
| 3140                      | -      | 308   | 318 | -      | 348   | 355 | -      | -     | -   | -      | -     | -   | -      | -     | -   | -      | -     | -   | -      | -     | -   | -      | -     | -   | 140                       |
| 3160                      | 348    | 368   | 388 | -      | 404   | 424 | -      | 404   | 424 | -      | -     | 428 | -      | -     | 460 | -      | -     | -   | -      | -     | -   | -      | -     | -   | 240                       |
| 3180                      | 348    | 368   | -   | 388    | 404   | 424 | -      | 404   | 424 | -      | 408   | 428 | -      | -     | 460 | -      | -     | -   | -      | -     | -   | -      | -     | -   | 255                       |
| 3200                      | 403    | 423   | -   | 439    | 459   | 459 | 439    | 459   | 459 | -      | 463   | 463 | -      | 493   | 493 | -      | -     | 495 | -      | -     | -   | -      | -     | -   | 410                       |
| 3225                      | 403    | -     | -   | 439    | 459   | -   | 439    | 459   | 459 | 442    | 463   | 463 | -      | 493   | 493 | -      | -     | -   | -      | -     | -   | -      | -     | -   | 445                       |
| 3250                      | 480    | -     | -   | 510    | 547   | -   | 510    | 547   | -   | 510    | 547   | 547 | 540    | 577   | 577 | -      | 551   | 551 | -      | 551   | 551 | -      | -     | 582 | 776                       |
| 3280                      | -      | -     | -   | 486    | 521   | -   | 486    | 521   | -   | 486    | 521   | -   | 516    | 561   | -   | 516    | 551   | 551 | -      | 551   | 551 | -      | 582   | 582 | 860                       |
| 3320                      | -      | -     | -   | 568    | -     | -   | 568    | -     | -   | 570    | 592   | -   | 602    | 623   | -   | 601    | 626   | -   | 601    | 626   | 669 | 635    | 653   | 699 | 1470                      |
| 3360                      | -      | -     | -   | -      | -     | -   | -      | -     | -   | 570    | -     | -   | 602    | 622   | -   | 601    | 626   | -   | 601    | 626   | -   | 633    | 653   | 703 | 1700                      |

## ● Montaj Pozisyonları ve Yağlama Miktarı [l] / Mounting Position and Lubrication [l]

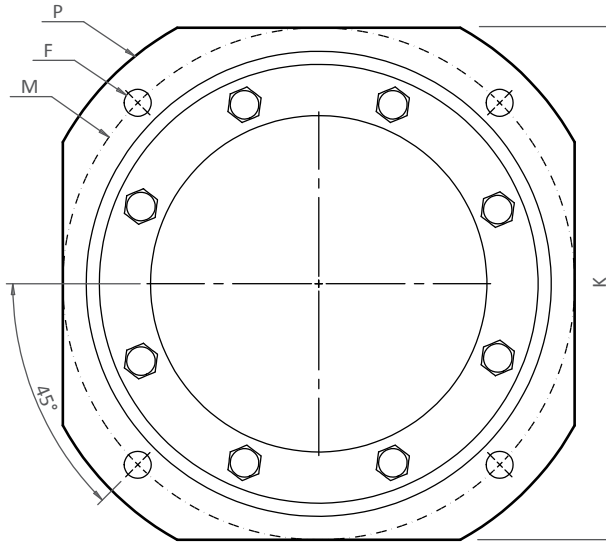
| Gövde<br>Büyüküğü<br>Size | M3   | M4   | M5   | M6   | M7   | M8   |
|---------------------------|------|------|------|------|------|------|
| 3140                      |      |      |      |      |      |      |
| 3140                      | 6,2  | 6,2  | 9,7  | 10,8 | 9,7  | 9,7  |
| 3160                      | 10,7 | 10,7 | 17,2 | 19,3 | 17,2 | 17,2 |
| 3180                      | 11,4 | 11,4 | 18,2 | 20,4 | 18,2 | 18,2 |
| 3200                      | 19,4 | 19,4 | 30,6 | 34,7 | 30,6 | 30,6 |
| 3225                      | 20,4 | 20,4 | 32,7 | 36,8 | 32,7 | 32,7 |
| 3250                      | 36   | 36   | 56   | 63   | 56   | 56   |
| 3280                      | 40   | 40   | 63,2 | 71   | 63,2 | 63,2 |
| 3320                      | 70   | 70   | 111  | 123  | 111  | 111  |
| 3360                      | 77   | 77   | 121  | 136  | 121  | 121  |



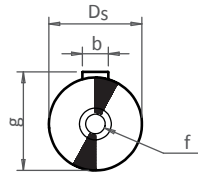
**ZET**  
R e d ü k t ö r

## 063-140 Çıkış Mili Opsiyonu / Output Shaft Configuration

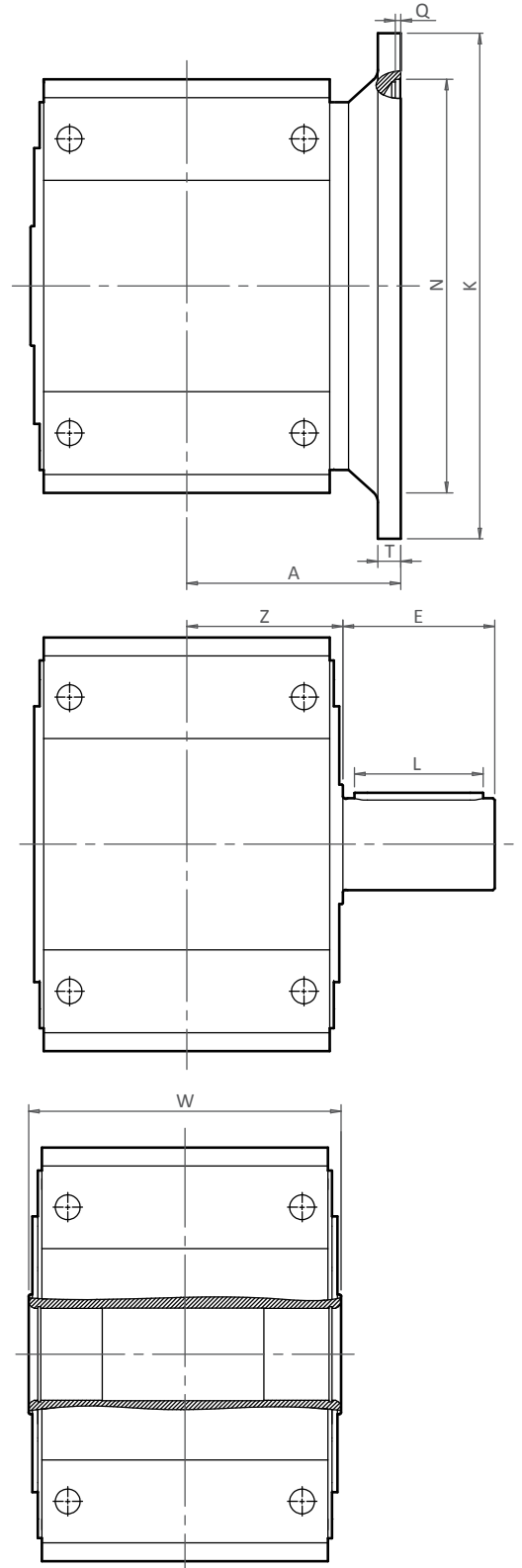
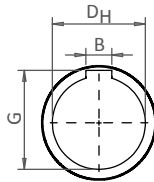
FR  
FL  
FD



DR  
DL  
DD



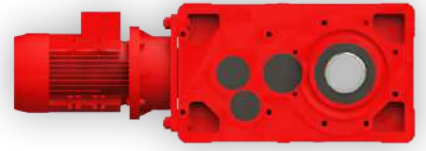
HS



| Gövde<br>Büyüküğü<br>Size | A   | B<br>[JS9] | b<br>[h9] | D <sub>H</sub><br>[H7] | D <sub>S</sub> | E   | F    | f      | G     | g    | K   | L  | M   | N<br>[H7] | P   | Q   | T  | W     | Z     |
|---------------------------|-----|------------|-----------|------------------------|----------------|-----|------|--------|-------|------|-----|----|-----|-----------|-----|-----|----|-------|-------|
| 63                        | 105 | 8          | 8         | 30                     | 30 [h7]        | 58  | 12   | M10X25 | 32,7* | 33   | 152 | 45 | 165 | 130       | 200 | 4,5 | 14 | 135,5 | 67,8  |
| 80                        | 119 | 10         | 10        | 38                     | 38 [h7]        | 58  | 14,5 | M12X30 | 40,7* | 41   | 196 | 50 | 215 | 180       | 250 | 5   | 16 | 163   | 81,5  |
| 100                       | 139 | 14         | 14        | 48                     | 48 [h7]        | 82  | 14,5 | M16X38 | 51,8  | 51,5 | 248 | 70 | 265 | 230       | 300 | 5   | 18 | 193   | 96,5  |
| 125                       | 157 | 18         | 18        | 60                     | 60 [h7]        | 105 | 18,5 | M20X44 | 64,4  | 64   | 290 | 90 | 300 | 250       | 350 | 5   | 20 | 226   | 113   |
| 140                       | 168 | 20         | 20        | 70                     | 70 [j6]        | 105 | 18,5 | M20X44 | 74,9  | 74,5 | 350 | 90 | 350 | 300       | 400 | 5   | 22 | 227   | 113,5 |

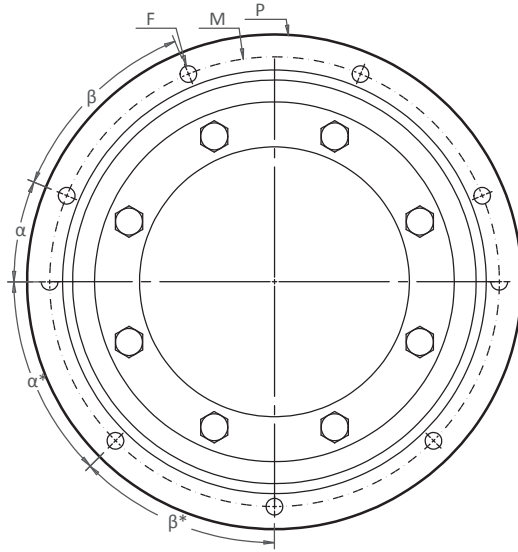
\* Ölçü standart değildir. \ \* Values are not standard



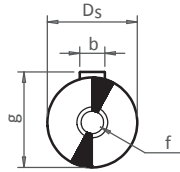


## 160-360 Çıkış Mili Opsiyonu / Output Shaft Configuration

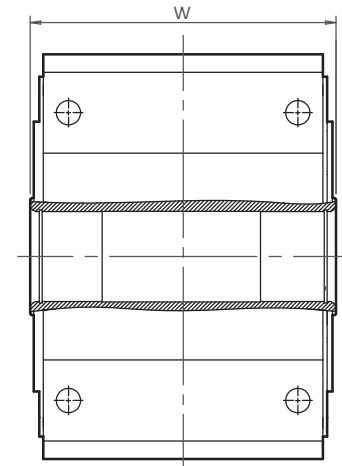
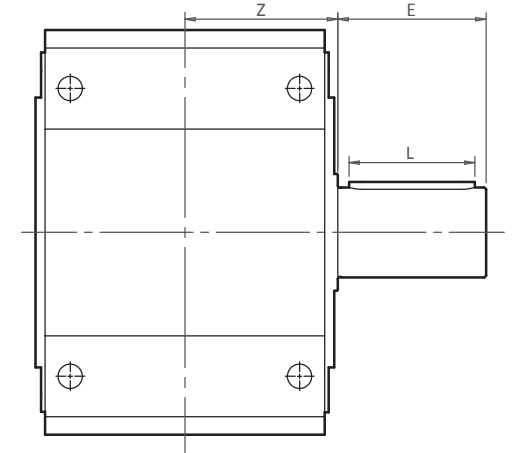
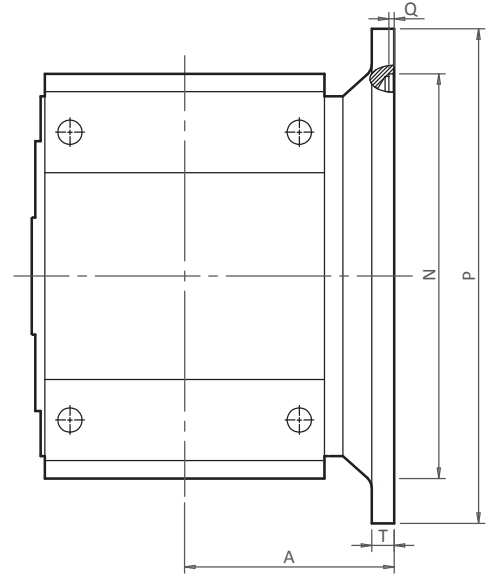
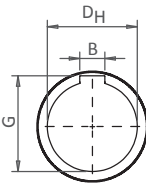
FR  
FL  
FD



DR  
DL  
DD



HS



| Gövde<br>Büyüklüğü<br>Size | A   | B<br>[JS9] | b<br>[h9] | D <sub>H</sub><br>[H7] | D <sub>S</sub><br>[j6] | E   | F    | f      | G     | g   | L   | M   | N<br>[H7] | P   | Q | T  | α°   | β°  | W   | Z   |
|----------------------------|-----|------------|-----------|------------------------|------------------------|-----|------|--------|-------|-----|-----|-----|-----------|-----|---|----|------|-----|-----|-----|
| 160                        | 199 | 22         | 22        | 80                     | 80                     | 130 | 18,5 | M20x44 | 85,4  | 85  | 110 | 400 | 350       | 450 | 5 | 22 | 22,5 | 45  | 290 | 145 |
| 180                        | 199 | 25         | 25        | 90                     | 90                     | 130 | 18,5 | M24x52 | 95,4  | 95  | 110 | 400 | 350       | 450 | 6 | 22 | 22,5 | 45  | 300 | 150 |
| 200                        | 233 | 28         | 28        | 100                    | 100                    | 165 | 18,5 | M24x52 | 106,4 | 106 | 140 | 500 | 450       | 550 | 6 | 25 | 22,5 | 45  | 340 | 170 |
| 225                        | 233 | 28         | 28        | 110                    | 110                    | 165 | 18,5 | M24x52 | 116,4 | 116 | 140 | 500 | 450       | 550 | 6 | 25 | 22,5 | 45  | 340 | 170 |
| 250                        | 280 | 32         | 32        | 125                    | 125                    | 200 | 27   | M24x52 | 132,4 | 132 | 180 | 600 | 550       | 660 | 7 | 30 | 45*  | 45* | 444 | 222 |
| 280                        | 290 | 36         | 36        | 140                    | 140                    | 200 | 27   | M30x60 | 148,4 | 148 | 180 | 600 | 550       | 660 | 7 | 30 | 45*  | 45* | 464 | 232 |
| 320                        | 355 | 40         | 40        | 160                    | 160                    | 240 | 33   | M30x60 | 169,4 | 169 | 220 | 740 | 680       | 800 | 7 | 37 | 22,5 | 45  | 552 | 276 |
| 360                        | 365 | 45         | 45        | 180                    | 180                    | 240 | 33   | M3xX60 | 190,4 | 190 | 220 | 740 | 680       | 800 | 7 | 37 | 22,5 | 45  | 571 | 286 |

\* 250-280 gövde flanş geometrisidir. \ \* Flange geometry of size 250 & 280



**Etiket Bilgisi / Nameplate Information**

**HE - KH Serisi Redüktörler**  
HE - KH Series Gearboxes

**Model** ■

**Tahvil Oranı** ■  
Ratio

**Seri Numarası** ■  
Serial Number

**Montaj Pozisyonu** ■  
Mounting Position

**Motor Gücü** ■  
Motor Power

**ZET Redüktör San. ve Tic. A.Ş.**  
Tel : +90 222 236 20 17 Eskişehir / Türkiye

Model: **HE 2160 A HS** P<sub>1</sub> :  kW

**i** : **19,4** **n<sub>2</sub>** :  Motor:

**S. No** : **140598** Ø:

**M.Poz.** : **M3** fs:

P<sub>N2 (1400)</sub> : **38,4 kW**

**MHE - MKH Serisi Redüktörler**  
(Motor ZET Redüktör tarafından montaj yapılıyor ise)  
MHE - MKH Series Gearboxes  
(If the motor is supplied by ZET Redüktör)

**Model** ■

**Tahvil Oranı** ■  
Ratio

**Seri Numarası** ■  
Serial Number

**Montaj Pozisyonu** ■  
Mounting Position

**Motor Gücü** ■  
Motor Power

**Motor Kodu** ■  
Motor Code

**Servis Faktörü** ■  
Service Factor

**ZET Redüktör San. ve Tic. A.Ş.**  
Tel : +90 222 236 20 17 Eskişehir / Türkiye

Model: **MHE 2160 A HS** P<sub>1</sub> : **22** kW

**i** : **19,4** **n<sub>2</sub>** : **72,2** Motor: **180L4**

**S. No** : **140598** Ø:

**M.Poz.** : **M3** fs: **1,82**

P<sub>N2 (1400)</sub> :  kW

**Çıkış Devri** ■  
Output Speed

**MHE - MKH Serisi Redüktörler**  
(Motor ZET Redüktör tarafından montaj yapılmayacak ise)  
MHE - MKH Series Gearboxes  
(If the motor is not supplied by ZET Redüktör)

**Model** ■

**Tahvil Oranı** ■  
Ratio

**Seri Numarası** ■  
Serial Number

**Montaj Pozisyonu** ■  
Mounting Position

**Motor Mil- Flanş Çapı** ■  
Motor Shaft-Flange Diameter

**ZET Redüktör San. ve Tic. A.Ş.**  
Tel : +90 222 236 20 17 Eskişehir / Türkiye

Model: **MHE 2160 A HS** P<sub>1</sub> :  kW

**i** : **19,4** **n<sub>2</sub>** :  Motor:

**S. No** : **140598** Ø: **48-350**

**M.Poz.** :  fs:

P<sub>N2 (1400)</sub> :  kW

**Redüktör İstek Formu / Gearbox Inquiry Form**

Firma Adı / Company Name : \_\_\_\_\_

Adres / Address : \_\_\_\_\_

İlgili Kişi / Person In Charge : \_\_\_\_\_

Telefon / Phone Numbers : \_\_\_\_\_

Faks / Fax : \_\_\_\_\_

E - Posta / E - Mail : \_\_\_\_\_

Web Sitesi / Web Site Address : \_\_\_\_\_

Redüktör Tipi / Gearbox Type

- Paralel Milli Helisel Dişli Redüktör / Parallel Shaft Gearboxes : ☐
- Konik Helisel Dişli Redüktör / Bevel Helical Gearboxes : ☐
- Koaksiyel Redüktör / Coaxial Gearboxes : ☐
- Sonsuz Vidalı Redüktör / Worm Gearboxes : ☐

Giriş Gücü / Input Power : ..... kW

Giriş Devri / Input Speed : ..... d/d / rpm

Tahvil Oranı / Ratio : .....

Ortam Sıcaklığı / Ambient Temperature : ..... °C

Servis Faktörü Parametreleri / Service Factor Parameters

- Uygulama / Application : .....
- Bir Saatteki Dur-Kalk Sayısı / Frequency of Starting : ..... dur-kalk/saat - Start/hour
- Toplam Öngörülen Çalışma Ömrü / Required Lifetime : ..... saat / Hours

Montaj Pozisyonu / Mounting Positions





## Redüktör İstek Formu / Gearbox Inquiry Form

### Radyal ve Eksenel Yükler / Radial and Axial Loads On Shafts

- Giriş Milinde / Input Shaft : Radyal Yük / Radial Load : ..... N Eksenel Yük / Axial Load : ..... N
- Çıkış Milinde / Output Shaft : Radyal Yük / Radial Load : ..... N Eksenel Yük / Axial Load : ..... N

### Giriş Opsiyonu / Input Configuration

- Dolu Milli / Solid Input Shaft : ☐
- Motor Akuple Bağlantılı / Directly Fitted with Motors : ☐

### Çıkış Opsiyonu / Output Configuration

- Dolu Çıkış Mili Tek Yönlü / Solid Output Shafts : ☐
- Dolu Çıkış Mili Çift Yönlü / Double Output Shaft : ☐
- Kovan Çıkış Mili / Hollow Shaft : ☐
- Sıkma Bilezikli Çıkış Mili / Hollow Shaft with Shrink Disk : ☐

### Aksesuarlar / Accessories

- Çıkış Flanşı / Output Flange : ☐
- Tork Kolu Bağlantısı / Shaft Mounting Arrangement : ☐
- Sabit Ayak / Fixed Foot : ☐
- Yağ Isıtıcı / Air-Oil Heat Changer : ☐
- Soğutma Sistemi / Cooling :
  - Fanlı Soğutma / Fan Cooling : ☐
  - Serpantinli Soğutma / Cooling Coil with Water : ☐
  - Eşanjörlü Soğutma / Water-Oil Heat Exchanger : ☐
  - Radyatörlü Soğutma / Air-Oil Heat Exchanger : ☐
- Geri Dönüş Kilidi / Backstop Device : ☐

### Kullanım Bilgileri / Quantity

- Yıllık Toplam Kullanım Miktarı / Annual Requirements : .....
- Bir Partide İstenen Miktar / Quantity Per Delivery : .....

İstenen Teslim Süresi / Required Delivery Time : .....

Lütfen istediğiniz ürünün özelliklerine bağlı olarak Redüktör İstek Formunu doldurarak bize ulaştırınız. Satış ekibimiz en kısa sürede sizinle iletişim kurmaktan memnuniyet duyacaktır.

Değerli ilginize teşekkür ederiz.

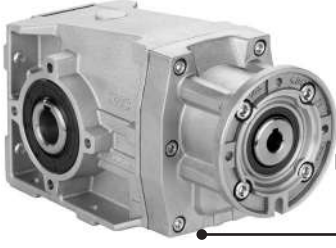
Please, send us the form after filling it in according to the features of the product you order. Our sales team would be glad to reach you as soon as you place your order. We are grateful to your appreciation / interest /cooperation. Thanks for your kind interest.

[illegible][illegible]





**YÜKSEK VERİMLİ MODÜLER  
VE KOMPAKT ÜRÜNLER**  
MODULAR & COMPACT PRODUCTS  
WITH HIGH ENERGY EFFICIENCY DRIVE



**KONİK HELİSEL  
DİŞLİ REDÜKTÖR**  
BEVEL HELICAL  
GEARBOXES

| Gövde<br>Büyüküğü<br>Size                          | X22S     | X32S     | X33S      | X42A      | X43A      | X52A      | X53A      | X62A      | X63A      |
|----------------------------------------------------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Nominal Çıkış<br>Momenti<br>Rated Output<br>Torque | 50<br>Nm | 90<br>Nm | 100<br>Nm | 150<br>Nm | 160<br>Nm | 250<br>Nm | 250<br>Nm | 410<br>Nm | 410<br>Nm |



**KOAKSİYEL  
REDÜKTÖR**  
COAXIAL  
GEARBOXES

| Gövde<br>Büyüküğü<br>Size                          | 202A     | 302A      | 402A      | 403A      | 452A      | 502A      | 503A      | 602A      | 603A      |
|----------------------------------------------------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Nominal Çıkış<br>Momenti<br>Rated Output<br>Torque | 70<br>Nm | 120<br>Nm | 160<br>Nm | 160<br>Nm | 300<br>Nm | 350<br>Nm | 350<br>Nm | 520<br>Nm | 520<br>Nm |



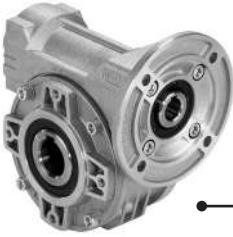
**KONİK HELİSEL  
DİŞLİ REDÜKTÖR**  
BEVEL HELICAL  
GEARBOXES

| Gövde<br>Büyüküğü<br>Size                          | X73C      | X74C      | X83C       | X84C       | X93C       | X94C       | X103C      | X104C      | X113C      | X114C      |
|----------------------------------------------------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|
| Nominal Çıkış<br>Momenti<br>Rated Output<br>Torque | 675<br>Nm | 675<br>Nm | 1000<br>Nm | 1000<br>Nm | 1600<br>Nm | 1600<br>Nm | 3000<br>Nm | 3000<br>Nm | 4600<br>Nm | 4600<br>Nm |



**KOAKSİYEL  
REDÜKTÖR**  
COAXIAL  
GEARBOXES

| Gövde<br>Büyüküğü<br>Size                          | 702C      | 703C      | 802C      | 803C      | 852C       | 853C       | 902C       | 903C       | 1002C      | 1003C      | 1102C      | 1103C      |
|----------------------------------------------------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|
| Nominal Çıkış<br>Momenti<br>Rated Output<br>Torque | 675<br>Nm | 675<br>Nm | 900<br>Nm | 900<br>Nm | 1600<br>Nm | 1800<br>Nm | 2100<br>Nm | 2100<br>Nm | 3000<br>Nm | 3000<br>Nm | 4600<br>Nm | 4600<br>Nm |



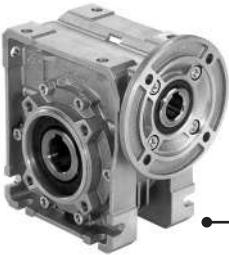
**SONSUZ VİDALI  
REDÜKTÖR**  
WORM  
GEARBOXES

| Gövde<br>Büyüküğü<br>Size                          | 030      | 045      | 050      | 063       | 63A       | 085       | 110       |
|----------------------------------------------------|----------|----------|----------|-----------|-----------|-----------|-----------|
| Nominal Çıkış<br>Momenti<br>Rated Output<br>Torque | 21<br>Nm | 41<br>Nm | 72<br>Nm | 147<br>Nm | 191<br>Nm | 347<br>Nm | 651<br>Nm |



**ŞAFT MONTAJLI  
REDÜKTÖR**  
SHAFT MOUNTED  
GEARBOXES

| Gövde<br>Büyüküğü<br>Size                          | FC62      | FC63      | FC72      | FC73      | FC82       | FC83       |
|----------------------------------------------------|-----------|-----------|-----------|-----------|------------|------------|
| Nominal Çıkış<br>Momenti<br>Rated Output<br>Torque | 675<br>Nm | 675<br>Nm | 900<br>Nm | 900<br>Nm | 2100<br>Nm | 2100<br>Nm |



**SONSUZ VİDALI  
REDÜKTÖR**  
WORM  
GEARBOXES

| Gövde<br>Büyüküğü<br>Size                          | Q30      | Q45      | Q50      | Q63       | Q75       | Q85       | Q11       | Q13        |
|----------------------------------------------------|----------|----------|----------|-----------|-----------|-----------|-----------|------------|
| Nominal Çıkış<br>Momenti<br>Rated Output<br>Torque | 21<br>Nm | 41<br>Nm | 72<br>Nm | 147<br>Nm | 270<br>Nm | 347<br>Nm | 651<br>Nm | 1050<br>Nm |



## **ZET Redüktör Sanayi ve Ticaret A.Ş.**

### **İSTANBUL MERKEZ OFİS / HEAD OFFICE**

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D Blok No:3-4  
34722 - Hasanpaşa  
İstanbul - Türkiye

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: +90-216-326 0679  
Fax : +90-216-326 0078

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Eskişehir -Türkiye

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www.zetreduktor.com