PGR®

DRIVE TECHNOLOGIES

Helisel Sonsuz Dişlili Redüktör

Helical Worm Gear Units

PSH SERIES

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TR EN

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İÇİNDEKİLER / CONTENTS

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Our vision is to become a world company which meets and surpasses the customer satisfaction and which not only follows the development but also creates the development itself.

OUR MISSION

Our mission is to provide the solutions to our customers in the most efficient and qualified way by making use of the information technologies.

Our reducer group carries out its work using simultaneous engineering methods in order to meet the demands of our customers by presenting several different product ranges. Design and planning activities, product development programmes and computer supporting work how a continuously growing chart. Our competitive and strong quality policy is to develop our customer spectrum.

TR TEKNİK AÇIKLAMALAR

Dişli Ünitesini Seçme

Bir dişli ünitesini seçerken PGR üç fazlı asenkron AC motorlarını veya tek fazlı AC motorları kullanılır ve teknik olarak kıyaslanabilen motorlar için de geçerlidir. Başka motorlar kullanırken, lütfen PGR'e danışınız. Bir dişli ünitesini seçme ile ilgili aşağıdaki önemli ana esaslara bağlı kalınmazsa, aşırı bir yük durumunun olması muhtemeldir. Bu durumda, tüm garantiler geçersizdir. Şüpheli durumda, lütfen dişli ünitesi tasarımını kontrol etmek için birlikte çalışabileceğiniz teknik bilgilerden sorumlu PGR satış ofisi ile irtibata geçiniz. Karşılıklı çıkarlarımız açısından, dişli ünitelerinde aşırı yüklemenin neden olduğu tüm problemler her durumda, önlenmelidir.

Kriter

Seçme kriteri aşağıdakilerden oluşur:

1. Termal olarak transfer edilebilen güç (termal sınır)

Dişli ünitesinin aşırı ısınmaması için, bu güç transferi (3 saat) daha uzun bir çalışma zamanını aşmamalıdır. Aşağıdaki maddelerden iki veya daha fazlasının geçerli olması durumunda çalışma durumunu kontrol ediniz.

- Ortam sıcaklığı > 40°C
- Dönme hızı n_1 > 1500 min^{-1}
- Motor gücü P_1 > 100 kW
- W kovanlı ve IEC adaptörlü redüktörler
- Dik olarak montajı yapılan redüktörler (sayfa 30-33)
- Tahvil oranı i_{top} < 20

2. Mekanik olarak transfer edilebilen güç "P"

Bu güç, katalogdaki ilgili tablodaki servis faktörü f_B tarafından göz önüne alınır. Bir sonraki bölüm, gerekli servis faktörünün saptanmasını tanımlar.

Genel olarak, dişli ünitesi ekleme, ısı radyasyonu, dar yer vs gibi özel montaj koşulları olduğunda bize danışınız. Özel ölçüler (veya su soğutucusu) termal aşırı yüküne karşı var olduğunda; lütfen PGR'e danışınız.

Giriş gücü ve servis faktörü

Her bir uygulama için gerekli giriş gücü, hesaplama ile saptanır. Motor anma gücü (P_1), bu giriş gücünden sonra seçilir. Normal olarak, belirli uygulama özel çalıştırma koşullarına ait güvenlik faktörleri gözleneceği ve anma motor çıkış seviyeleri genellikle standart çıkış seviyesi aralığında olduğu için motorun anma gücü istenilen güçten biraz daha yüksektir.

Montajı yapılacak 3 fazlı bir AC motorun anma gücünü seçerken kısa dönem ve seyrek tork tesirini göz önüne almak gerekmez. Bir frekans inventörü üzerindeki 3 fazlı bir AC motor çalıştırırken ilave faktörler anma çıkış gücünün seçimini etkiler. Motorun aksine, kısa dönem ve seyrek tork tesiri önemli derecede dişli ünitesinin seçimini etkiler. Dişli ünitesi servis faktörü f_B bu kısa dönem ve seyrek tork tesirini ve ayrıca yeterli doğrulukla dişli ünitesi üzerinde etkileri göz önüne alır.

4.sayfadaki **diyagram 1** çalışma saatine veya güne bağlı olarak yük sınıflandırması, devir ve minimum servis faktörü arasındaki ilişkiyi sunmaktadır.

EN EXPLANATORY NOTES

Selecting Gear Unit

Gear unit selection includes PGR's three-phase AC motor or single phase AC motor and technically equal different motor could be applied. If you intend to use a motor other than PGR please contact PGR. There are some condition for selecting gear unit and these condition must be considered overloading could be happened badly if restirictions are not considered. In these situation, all guarantees could be invalidated. Under suspecious situation please refer to PGR sales office department which is responsible for giving technical information to you.

Conditions

The conditions of selecting gear unit are as the following:

1. Thermal Limit

Thermal transfer power should not be exceeded over running time (3 hours) to prevent overheated gear unit. In case of any suspicion please contact PGR.

- Ambient temperature > 40°C
- Rotational speed n_1 > 1500 min^{-1}
- Input power P_1 > 100 kW
- With W-cylinder and IEC adapter gear units
- Vertical mounting position (see page 30-33)
- Reduction ratio i_{top} < 20

2. Power transfer with service factor "P"

Service factor (f_B) is important for power transfer, determination of minium service factor will be provided at the following section

In special operating conditions; eg. heat radiation in bounded field (little space) which is required special devices (oil cooler or water cooler) please contact PGR

Input power and service factor

For every application, the requiring input power could be calculated. After determing input power, the rated motor power (P1) is selected. Normally motor power is greater than the required input power because the safety factor is used according to operating conditions.

Selecting a motor type is important for right calculation for instance; three phase AC motor which is mounted to gear unit, affecting infrequent torque could not be considered but if you mount three-phase AC motor on frequency inverter latest available factor effects the output power. Besides of motor type short and infrequent torque impression effects selecting gear unit for that service factor is considered.

Diagram 1 which is shown on page 4, presents relation between types of load, revolution per hour and minimum service factor depend on operation hours or day.

TR SERVİS FAKTÖRÜ

Diyagram 1, günlük çalışma zamanına bağlı gerekli minimum servis faktörü $f_{B\,min}$, 'Z' saatteki çevrimleri, ve uygulama yükü sınıflandırması 'U', 'M', 'H' gösterir. Çalışma düzgünlüğüne ve kütle hız faktörüne bağlı olarak, üç yük sınıflandırması belirlenmiştir. Hareket ettiren makineden gelen etkiler çalışma düzgünlüğü sınıflandırmasında tanımlanırken, kütle hız faktörü en fazla olan yük üzerinde etkili olur.

Not : Elde edilen servis faktörü f_B kullanılan sürücü (tahrik) tipine göre "k" katsayısı ile çarpılır.

k = 1 ; elektrik motoru veya hidromotor,
k = 1.25 ; çok silindirli içten yanmalı motor,
k = 1.50 ; tek silindirli içten yanmalı motor

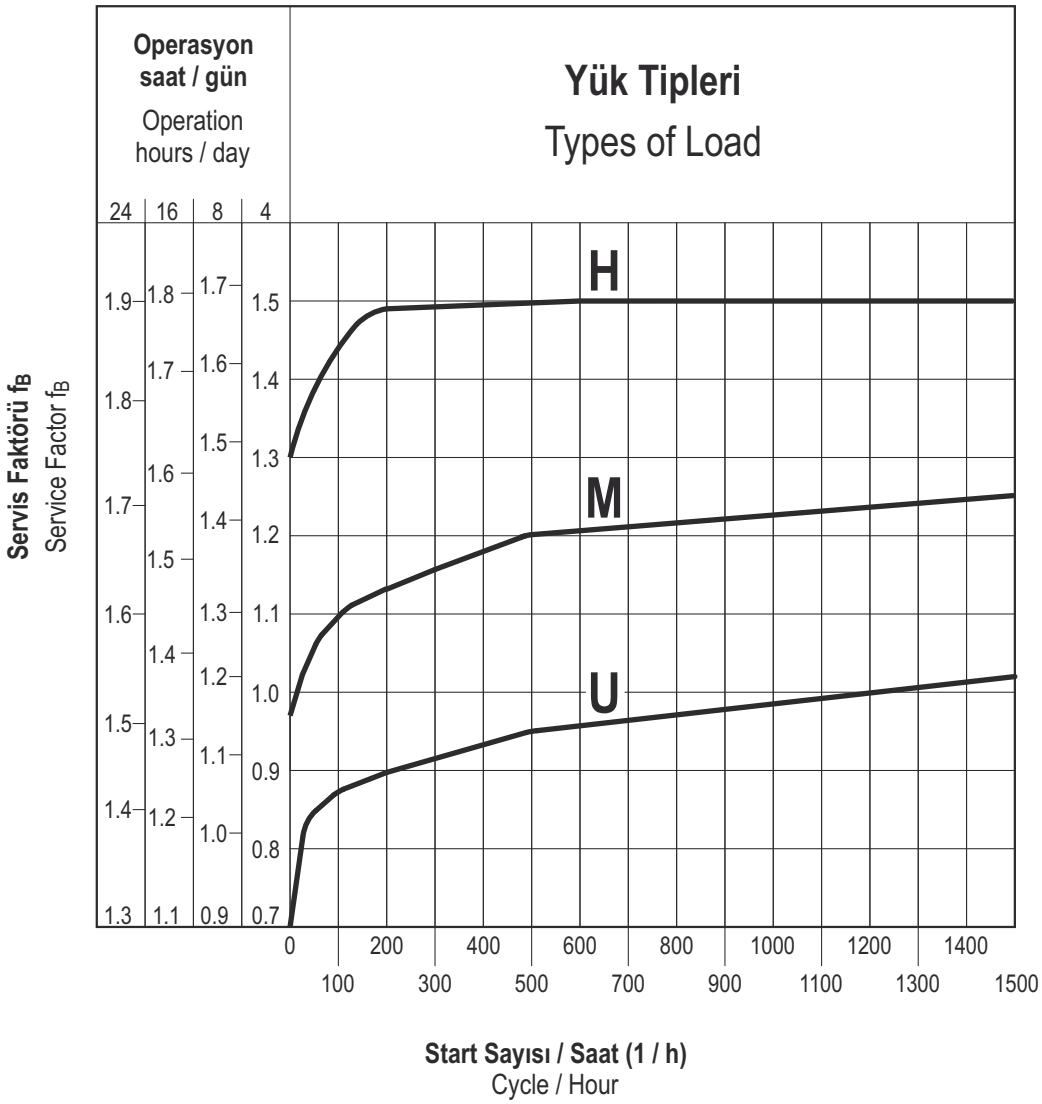
EN SERVICE FACTOR

Diagram 1 shows requiring minimum service factor depend on revolution per hours 'Z' and types of load 'U', 'M' or 'H'. In the following section the information regarding mass acceleration factor, how it effects and the relation between load classification will be explained. Forces or loads which are applied from driven machin to gear unit while determine load classification, mass acceleration factor is played important role on the high load classification which is designated with 'H' sign.

Note : Service factor f_B which is acquired from diagram should be modified with factor "k" that, depends on driver type.

k = 1 ; hydraulic motor and electrical motor
k = 1.25 ; multi-cylinder engine
k = 1.50 ; single-cylinder engine

Diyagram - 1



TR TEKNİK BİLGİLER

Dişli Ünitesini Seçme

Bir çalışmanın sınıflandırılması :

a) Düzgün çalışma (U)

Küçük karıştırıcılar, asansörler, konveyörler, montaj bantları, doldurma makinaları, bantlı konveyörler, temizleme makinaları, fanlar, test makinaları.

b) Yumuşak şoklar, düzgün olmayan çalışma (M)

Ağır konveyör bantları, değirmenler, ahır gübre makinaları, vinç hareketli mekanizmalar, bükme makinaları, çimento karıştırıcılar, dişli makinaları, ahşap işleme makinaları için sürücüler, vinçler, kayar kapılar, dengeleme makinaları.

c) Ağır şoklar, aşırı düzgün olmayan çalışma (H)

Taş kırıcılar, eksantrik presler, doğrayıcılar, presler, taşlama milleri, çekiçli kırıcılar, kağıt öğütücüler, ağır karıştırıcılar, delme makinaları, katlama makinaları, dönen tezgahlar, yatay karıştırıcılar, kesiciler, vibratörler, santrifüj makinaları, döner tablalar.

Yük sınıflandırması, çalışma düzgünlüğünden ve aşağıdaki tabloya göre kütle hız faktörü 'm_{af}' den belirlenir. Burada, çalışma veya kütle hız faktöründen gelen daha yüksek sınıf yük sınıflandırmasında geçerlidir. (Örnek: aşırı düzgün olmayan çalışma ve m_{af} = 2,8 gibi durumda yük sınıfı 'M' olarak belirlenir.

Yük Sınıfı	Çalışma	Kütle hız faktörü
U	Düzgün çalışma	$m_{af} \leq 0.25$
M	Düzgün olmayan çalışma	$0.25 < m_{af} \leq 3$
H	Aşırı düzgün olmayan çalışma	$3 < m_{af} \leq 10$

$$m_{af} = \frac{J_{ex.red}}{J_{mot}} = \frac{J_{ex}}{J_{mot}} \times \left(\frac{1}{i_{ges}}\right)^2$$

i_{ges} = Toplam dişli ünitesi oranı
$J_{ex.red}$ = Hareket motoru üzerindeki azaltılmış tüm dış kütle atalet momenti
J_{ex} = Tüm dış kütle atalet momenti
J_{mot} = Motorun kütle atalet momenti

Kütle hız faktörü m_{af}, çıkış tarafındaki dış kütleler ile giriş tarafındaki yüksek hız kütlelerin arasındaki ilişkiyi gösterir. Kütle hız faktörü, başlatma ve frenleme işlemlerine ve titreşime göre dişli ünitesindeki tork tesir seviyesini önemli derecede etkiler.
Örneğin; bantlı konveyör sistemlerinde dış kütle atalet momenti taşınan ürün kadar yük uygular. $m_{af} > 10$ ise, transfer elemanlarında büyük bir oynama, yük sınıflamasında belirsizlik varsa veya şüphedeyseniz, PGR'e danışınız.

Servis faktörü f_B, maksimum dişli ünitesi çıkış momenti M_{amax} ile montajlanmış motor gücü P_1, çıkış hızı n_2 ve dişli ünitesi verimi (η) sonucu ortaya çıkan momenti M_2 arasındaki ilişkidir.

EN EXPLANATORY NOTES

Selecting a Gear Unit

Operation classification;

a) Uniform application (U)

Small agitators, elevators, conveyors, assembly belts, filling machines, conveyor belts, cleaning machines, fans, testing machines.

b) Moderate shocks, non-uniform application (M)

Heavy conveyors belts, mills, stall dunging machines, crane traveling mechanisms, bending machines, cement mixers, gear pumps, decoilers, tapping units, packaging machines, feed drives for wood processing machines, hoists, winches sliding doors, balancing machines.

c) Heavy shocks, extreme non-uniform application (H)

Stone crusher, eccentric presses, choppers, presses, spindle grinding mills, hammer mills, shredders, heavy mixers, punching machines, folding machines, rolling stands, tumbling barrels, shears, vibrators, centrifuges, roller tables.

Load classification is obtained from operation class and mass acceleration factor (m_{af}). For this reason in any situation you must use the greater factor for calculation. (Eg; heavy - shock and m_{af} = 2,8 load classification must be'M')

Load Classification	Operation	Mass Acceleration Factor
U	Uniform application	$m_{af} \leq 0.25$
M	Non-uniform application	$0.25 < m_{af} \leq 3$
H	Extreme non-uniform application	$3 < m_{af} \leq 10$

i_{ges} = Total gear unit ratio
$J_{ex.red}$ = All external mass moment of inertia on the drive motor, reduced
J_{ex} = All external mass moment of inertia
J_{mot} = Mass moment of inertia of the motors

Technically mass acceleration factor m_{af} mass different between external output-side and high speed input-side. m_{af} plays more important role at the level of torque propulsive than in the gear unit.
It is mostly effected at start-up,braking operation and vibration. Please contact PGR where m_{af} is greater than 10 and if there be large fluctions in transfer elements and vibration in the system.

Calculation of service factor is illuminated below. It depends on maximum output moment of gear unit and the output moment which is calculated from motor power, rotation speed and efficiency.

TR TEKNİK BİLGİLER

Dişli Ünitesini Seçme

Helisel - Sonsuz Dişli Üniteleri İçin Seçim Bilgileri

Helisel-sonsuz dişlili tasarımları için, çok sayıdaki kalkışlarda (oto-blokaj olasılığının azalması) çıkış torkunun geriye dönüşte etki etmesi ya da yüksek atalet momentinin oluşabileceği göz önünde bulundurulmalıdır. Sonsuz dişli sayıları Z2 / Z1 IEC seçim tablolarında listelenmiştir.

$m_{af} \leq 0.25$ tüm sonsuz dişli sayısı mümkündür.
$m_{af} \leq 3$ sonsuz dişli sayısı $Z_1 \geq 3$ önerilir.
$m_{af} \leq 10$ sonsuz dişli sayısı $Z_1 \geq 6$ önerilir.

Sonsuz dişli ünitelerinde diyagram 1'den bulunan f_{Bmin} servis faktörüne ek olarak T_U dış ortam sıcaklığı için f_{B1} servis faktörü ve devamlılık süresi faktörüne göre ED için f_{B2} servis gözönünde bulundurulmalıdır.

f_{B1} ve f_{B2} servis faktörleri diyagram 2 ve 3'ten bulunabilir.

Doğru bir dişli ünitesi seçiminde, tablolardan alınan servis faktörü aynı f_{Bmin}, f_{B1} ve f_{B2} servis faktörlerinden büyük olmalıdır.

$$f_B \geq f_{Bmin} \cdot f_{B1} \cdot f_{B2}$$

W kovanlı helisel-sonsuz dişli üniteleri için güç aşağıdaki formüle göre hesaplanır.

$$P_1 = \frac{M_{amax} \cdot n_2}{9550 \cdot f_{Bmin} \cdot f_{B1} \cdot f_{B2} \cdot \eta}, \ [kW]$$

M_{amax} [Nm]
n_2 [min^{-1}]

Burada maksimum sürücü gücü P_{1max} değerini geçmemelidir.

$P_1 \leq P_{1max}$

W ve IEC'li performans tablolarında her bir çıkış devri (n2) için maksimum çıkış torku (Mamax), maksimum motor gücü (P1max) ve dişli ünitesi verimi listelenmiştir. Dişli ünitesi verimi (η) yukarıdaki formüle göre çıkan faktörü içermelidir.

Örneğin ; 0,9 = %90

Helisel-sonsuz dişli ünitelerinde servis faktörü (f_{B1}) hesabına etki eden dış ortam sıcaklığına göre ve çalışma çevriminden dolayı gelecek servis faktörleri (f_{B2}) gözönünde bulundurulmalıdır.

EN EXPLANATORY NOTES

Selecting a Gear Unit

Selection Information For Helical-Worm Gear Unit

For more start-stop applications (reducing possibility of auto-irriversibility) you must consider the effecting of the output torque to anti rotation or occuring high moment of inertia in design of helical-worm gear units. Number of Teeth number of worm gear Z_1, of gear units with IEC adapters are listed in performance tables.

$m_{af} \leq 0.25$ all number is possible
$m_{af} \leq 3$ number of worm teeth $Z_1 \geq 3$ önerilir.
$m_{af} \leq 10$ number of worm teeth $Z_1 \geq 6$ önerilir.

In selection of helical-worm gear units additional f_{B1} service factor which is depend on ambient temperature and f_{B2} service factor which is depend on cycle and calculated according to ED are considered.

f_{B1} and f_{B2} service factors can be found from diagram 2 and 3.

For the right selection, service factor which is taken from performance table must be gearther than f_{Bmin}, f_{B1} and f_{B2} service factors which are taken from diagram 1,2,3.

Power for helical-worm gear with W cylinder is calculated as follows.

In this section P_1 value must be less than P_{1max} value.

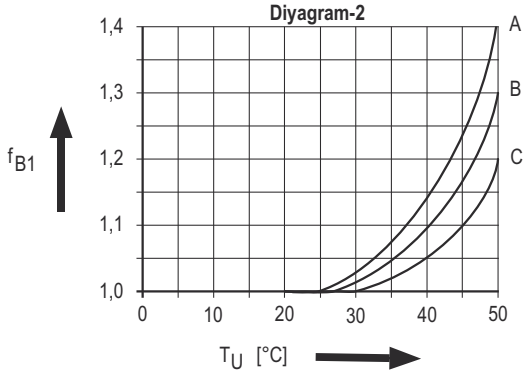
$P_1 \leq P_{1max}$

For all output speed, maximum output torque [M_{amax}] maximum motor power (P_{1max}) and efficieny of gear units are listed on performance tables of gear unit with W and IEC adapter. Efficiency of gear units must be included factor which is obtained from equation on above.

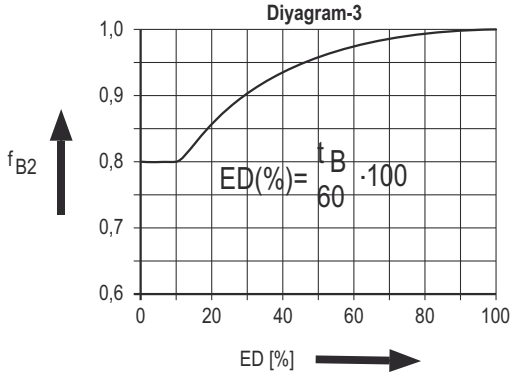
Example ; 0,9 = %90

f_{B1} service factor according to ambient temperature and f_{B2} service factor according to running cycle which are effected to the calculation of service factor must be considered in helical-worm gear units.

Diyagram-2



Diyagram-3



TR TEKNİK BİLGİLER

Verim (η) :

PSH helisel - sonsuz dişli üniteleri verimde maksimum %92'ye ulaşabilir.

Sonsuz dişlilerin maksimum verimliliğe ulaşabilmeleri için dişlilerin birbirine alışması gerekmektedir. Bundan dolayı dişli ünitesi verimi, sonsuz redüktör yeni olduğunda düşük olacaktır.
Helisel - sonsuz dişli ünitesinin az sayıdaki kalkışlarında bu etki maksimumdur ama doğrusal açı ile azalır. Tecrübelere göre tam çalışma tamamlanmadan önce aşağıda verilen verim düşüşleri göz önünde bulundurulmalıdır.

Helisel - Sonsuz Çalışması	Verimdeki Düşüş
1. Çalışma	% 12
2. Çalışma	% 6
3. Çalışma	% 3
6. Çalışma	% 2

Sonsuz dişlideki diş sayıları, IEC seçim tablolarında listelenmiştir. Alıştırma prosedürü maksimum yükte yaklaşık 25 saat çalıştırıldıktan sonra tamamlanmış olur.

Tablolarda verilen verim değerlerine ulaşabilmek için aşağıdaki bilgiler göz önünde bulundurulmalıdır.

- Dişli ünitesi devamlı çalıştırılmalı,
- Dişli ünitesi sabit sıcaklığa ulaşmış olmalı,
- Gerekli yağlayıcı ile doldurulmuş olmalı,

Radyal ve Eksenel Kuvvetler

Çıkış momenti ve hız genel açıklamalarındaki tablolarda, çıkış mili üzerine izin verilen radyal kuvvetler F_R ve eksenel kuvvetler F_A listelenmiştir. Tercihen güçlendirilmiş çıkış mili yatakları bir çok dişli ünitesi tipi için geçerlidir. Güçlendirilmiş yataklardaki radyal ve eksenel kuvvetler tablolarda $F_{R\,GR}$ ve $F_{A\,GR}$ olarak belirtilmiştir. Listelenen radyal ve eksenel kuvvetler, mil çıkışlı, ayak ve flanş bağlantılı dişli üniteleri için uygulanır. Radyal ve eksenel kuvvetler, bu kuvvetlerden biri 0 (sıfır)'a eşit iken hesaplanmıştır.

Ayrıca, radyal ve eksenel kuvvetlere ait bir servis faktörü $f_B = 1$ çıkış gücü ve devir açıklamalı genel tablolarda verilen kuvvetlerin temeline dayanır. Darbeli tipli kuvvetlerin olduğu ve aşırı çalışmalı (> 8 saat/gün) uygulamalarda uygun servis faktörü $f_B > 1$ radyal ve eksenel kuvvetler için de göz önünde bulundurulmalıdır. İzin verilen kuvvetler F_A ve F_R belirli oranda azaltılır.

Listelenen radyal kuvvetler, milin ucunun orta kısmında etki eden bir kuvvete karşılık gelir. İzin verilen kuvvetleri saptarken, uygulanan kuvvetin hiç istenmeyen yönü ve dönme yönü varsayıldı. Tam bir hesaplama için, daha yüksek radyal ve eksenel kuvvetler muhtemeldir. Bu yüzden lütfen bize istenen servis süresinin yanısıra gerçek güç ve dönme yönünün detaylarını da belirtiniz.

Transfer elemanları, çıkış miline eklenirse, ilgili faktör f_z radyal kuvveti saptamada göz önüne alınmalıdır.

EN EXPLANATORY NOTES

Efficiency (η) :

Helical-worm gear units (PSH) can be reached maximum 92% per cent efficiency.

For reaching maximum efficiency of worm gears, gears must be run together. For that reason efficiency of gear units will be low in first running.
At low start-stop applications this affect will be maximum but it could be decrease with linearly. According to experience, before full running incompletely decreasing in efficiency which is specified on below must be considered.

Running of Helical-Worm Gear	Decreasing in Efficiency
1st Running	% 12
2nd Running	% 6
3rd Running	% 3
6th Running	% 2

Teeth number of worm gear, reduction ratio and output speed are listed on the performance tables. Procedure of running together is accomplished after 25 hours running with maximum load.

For each efficiency value on the performance tables, you must consider as follows instruction;

- Gear units must be run full,
- Gear units must be reach constant temperature,
- It must be filled suitable lubrication,

Axial and Radial Forces

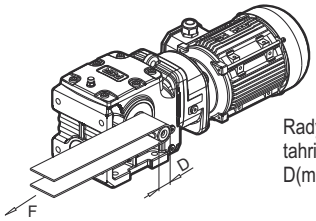
Permissible forces on the output shaft are given at the selection of gear motor. F_R represents radial load and F_A represents axial load. $F_{A\,GR}$ and $F_{R\,GR}$ represents permissible load with reinforced bearings. These values are calculated when one of them is equal to zero.

In selection of gear motor tables service factor is given with permissible axial and radial load but it must be considered when operating times is greater than 8 hours and service factor must be greater than 1 for that reason permissible radial and axial loads are reduced.

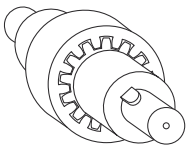
Axial and radial forces are calculated where force acting on the middle of the shaft end see page 39. Direction of rotation is played important role in calculation. For that reason this forces are calculated and result's value is found from forces to the shaft worse. Hence, please explain details in your orders.

For belt-pulleys operations or any other motion transfer applications f_z factor must be considered while calculating radial and axial load.

TR RADYAL YÜK HESABI

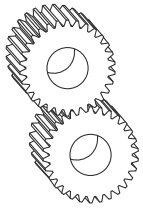


Radyal yük F_R (N)' nun hesaplanmasında gerekli tahrik momenti M_2 (Nm), kasnak veya dişli çapı D(mm) olmak üzere aşağıdaki formüller kullanılır.



1 - Elastik Kaplin

Çalışma sırasında oluşan sapmalar kaplinin güvenlik sınırları içerisinde ise kuvvetler ihmal edilebilir.

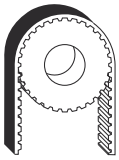


2 - Düz Dişli (20° kavrama açılı)

$$F_R = \frac{2100 \times M_2}{D}$$

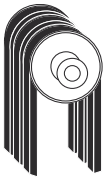
3 - Küçük Hızlarda Zincir Dişli (Z < 17)

$$F_R = \frac{2100 \times M_2}{D}$$



4 - Triger Kayış

$$F_R = \frac{2500 \times M_2}{D}$$



5 - V Kayış

$$F_R = \frac{5000 \times M_2}{D}$$

6 - Gerdirme Makaralı Kayış

$$F_R = \frac{5000 \times M_2}{D}$$

EN CALCULATION OF OVERHUNG LOADS

Radial load F_R (N) is calculated with the following formulas where required moment M_2 (Nm) and hoop or gear diameter D (mm) is used.

1 - Elastik Coupling

If elastic coupling is working in its reliable working area, the overhung loads can be neglected.

2 - For Spur Gear (Pressure angle 20°)

3 - For Chain Drive With Low Speed (Z < 17)

4 - For Trigger Belt

5 - For V Belt

6 - Flat Belt With Spanning Pulley

TR RADYAL YÜK HESABI

fz için Tablo

Transfer Elemanları	Faktör fz	Açıklama
Dişliler	1.1	z ≤ 17 diş
Zincir Dişliler	1.4	z ≤ 13 diş
Zincir Dişliler	1.2	z ≤ 20 diş
Dar V-Kayış Makaralar	1.7	ön gerilim kuvveti
Düz kayış Makaralar	2.5	

Mil üzerinde ortaya çıkan radyal kuvvet, aşağıdaki formül kullanılarak hesaplanmıştır.

$$F_{Rvorth} = \frac{2 \cdot M_2}{d_o} \; f_z \leq F_R$$

M_2 : Dişli ünitesi çıkış momenti [Nm]
f_Z : Tablodan alınan katsayı
d_0 : Etkili daire çapı [mm]
F_R : Devir ve çıkış gücü tablolarından alınan müsaade edilebilir radyal kuvvet [kN]
$F_{R\ vorth}$: Mil üzerindeki radyal kuvvet [kN]

Kuvvet mil ortasına uygulanmazsa, herhangi bir 'X' noktasında izin verilen radyal kuvvet **formül I ve II** kullanılarak hesaplanır.

Formül / Formula - I

$$F_{RXL} = F_R \cdot \frac{z}{y + x}$$

Formül / Formula - II

$$F_{RXW} = \frac{c}{(f + x) \cdot 1000}$$

X : Mil bileziğinden kuvvet uygulama noktasına olan uzaklık [mm]
X Noktası - mil kararlılığı

F_{RXW} : İzin verilen radyal yük [kN]

F_R : Hız ve çıkış tabloları ve milin ortasına uygulanan kuvvetten alınan radyal kuvvet [kN] X Noktası - yatak servis ömrü

F_{RXL} : İzin verilen radyal yük [kN]

c		[Nmm]
C_{GR}		[Nmm]
f	10-11	[mm]
y		[mm]
z		[mm]

Belirtilmedir ki, hesaplamalarda **formül I** yatak servis ömrünü, **formül II** ise mil kararlılığını hesaplamada kullanılır. Hesaplamalar sonucunda küçük değer dikkate alınmalıdır.

EN CALCULATION OF OVERHUNG LOADS

fz values are shown at table.

Transfer Elements	Factor fz	Notice
Gears	1.1	z ≤ 17 teeth
Chain Sprockets	1.4	z ≤ 13 teeth
Chain Sprockets	1.2	z ≤ 20 teeth
Narrow V-belt pulleys	1.7	by
Flat belt pulleys	2.5	Pre-Tensioning

Radial load is determined with the following formula;

$$F_{Rvorth} = \frac{2 \cdot M_2}{d_o} \; f_z \leq F_R$$

M_2 : Output torque of gear unit [Nm]
f_Z : Factor which is taken from table
d_0 : Effective circular diameter [mm]
F_R : Permitted radial force which is taken from the speed and output moment tables. [kN]
$F_{R\ vorth}$: Radial force on the gear unit shaft [kN]

The formula which is determined above is used for when force is not acting on the middle of shaft at other situations the following formula is applied.

Formül / Formula - I

$$F_{RXL} = F_R \cdot \frac{z}{y + x}$$

Formül / Formula - II

$$F_{RXW} = \frac{c}{(f + x) \cdot 1000}$$

X : Distance from the shaft collar to the point of force application [mm]
point X - shaft stability

F_{RXW} : Permitted overhung force [kN]

F_R : Overhung force from the speed and output tables, force applied at shaft middle [kN] point X - bearing service life

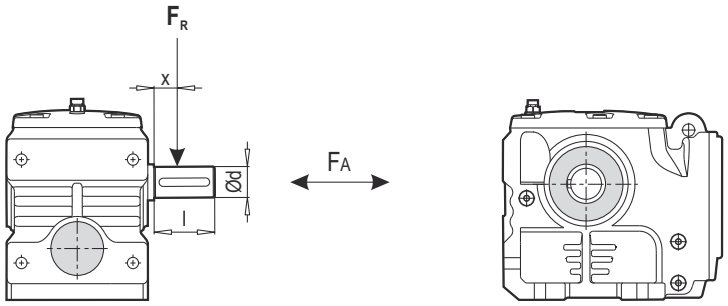
F_{RXL} : Permitted overhung load [kN]

c		[Nmm]
C_{GR}		[Nmm]
f	10-11	[mm]
y		[mm]
z		[mm]

Notify that, **formula I** and **formula II** are applied for calculating radial load where **formula I** is used for service life and **formula II** is used for shaft stability. But small result must be considered.

TR RADYAL YÜK HESABI

EN CALCULATION OF OVERHUNG LOADS



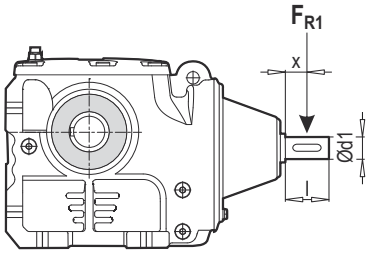
ÇIKIŞ ŞAFTINDAKİ RADYAL VE EKSENEL YÜK HESAPLAMALARI İÇİN DEĞERLER VALUE TABLE FOR RADIAL AND AXIAL LOADS AT OUTPUT SHAFT							
Redüktör Tipi Gearbox Type	**y** **(mm)**	**z** **(mm)**	**c** **Normal** Normal **(Nmm)**	**CGR** **Güçlendirilmiş** Reinforced **(Nmm)**	**f** **(mm)**	**Ød** **(mm)**	**l** **(mm)**
PSH 2040	99.5	115.5	0.07×10^6	–	0	20	40
PSH 2050, PSH 3050	104.0	129.0	0.12×10^6	0.19×10^6	0	25	50
PSH 2063, PSH 3063	118.5	148.5	0.19×10^6	0.30×10^6	0	30	60
PSH 2080, PSH 3080	150.0	185.0	0.21×10^6	0.41×10^6	0	35	70
PSH 2100, PSH 3100	179.0	224.0	0.51×10^6	0.94×10^6	0	45	90
PSH 2125, PSH 3125	233.5	293.5	1.33×10^6	2.19×10^6	0	60	120

y-z-c-CGR 9

TR RADYAL YÜK HESABI

EN CALCULATION OF OVERHUNG LOADS

W



GİRİŞ ŞAFTINDAKİ RADYAL VE EKSENEL YÜK HESAPLAMALARI İÇİN DEĞERLER
VALUE TABLE FOR RADIAL AND AXIAL LOADS AT INPUT SHAFT **f=0**

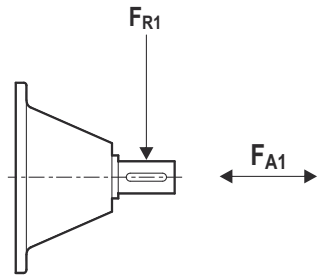
Redüktör Tipi Gearbox Type	y (mm)	z (mm)	c (Nmm)	Ød1 (mm)	l (mm)
PSH 2040	58.5	78.5	0.037×10^6	16	40
PSH 2050 **PSH 2063** **PSH 2080** **PSH 3050** **PSH 3063** **PSH 3080** **PSH 3100**	70.0	90.0	3.64×10^4	16	40
PSH 2100 **PSH 3125**	96.5	121.5	1.07×10^5	24	50
PSH 2125	110.5	150.5	4.70×10^5	38	80

y-z-c 9

TR RADYAL YÜK HESABI

EN CALCULATION OF OVERHUNG LOADS

W



Tip Type	PSH 2040		PSH 2050 PSH 2063 PSH 2080 PSH 3050 PSH 3063 PSH 3080 PSH 3100		PSH 2100 PSH 3125		PSH 2125	
	[kN]	[kN]	[kN]	[kN]	[kN]	[kN]	[kN]	[kN]
P1 (kW)	F_{A1}	F_{R1}	F_{A1}	F_{R1}	F_{A1}	F_{R1}	F_{A1}	F_{R1}
0.12	1.2	0.85	1.2	0.85	2.9	2.1	-	-
0.18	1.1	0.82	1.1	0.82	2.9	2.1	-	-
0.25	1.0	0.78	1.0	0.78	2.8	2.1	-	-
0.37	0.89	0.75	0.89	0.75	2.6	2.1	4.1	2.1
0.55	0.77	0.72	0.77	0.72	2.5	2.0	3.9	2.8
0.75	0.58	0.70	0.58	0.70	2.3	1.9	3.8	2.4
1.10	0.35	0.61	0.35	0.61	2.1	1.8	3.5	2.7
1.50	0.29	0.43	0.29	0.43	2.0	1.8	3.3	2.6
2.20	0.20	0.42	0.20	0.42	1.7	1.7	2.7	2.4
3.00	0.15	0.23	0.15	0.23	1.5	1.6	2.5	2.3
4.00	-	-	-	-	0.98	1.1	2.3	2.1
5.50	-	-	-	-	0.65	1.0	1.6	1.8
7.50	-	-	-	-	0.27	1.0	1.4	1.3
9.20	-	-	-	-	-	-	1.0	0.98
11.0	-	-	-	-	-	-	0.59	0.47

$F_{A1} \Rightarrow F_{R1} = 0$
$F_{r1} \Rightarrow F_{A1} = 0$

9

TR KISALTMALAR

EN ABBREVIATIONS

f_B	= Servis Faktörü (Mamax / Ma)	f_B	= Service factor (Mamax / Ma)
F_A	= Çıkış tarafındaki müsaade edilebilir eksenel yük [kN]	F_A	= Permissible axial load at the output side [kN]
F_R	= Çıkış tarafındaki, milin orta noktasına etkiyen müsaade edilebilir radyal yük [kN]	F_R	= Permissible overhung load at the output side, force acting at the shaft's midpoint [kN]
i_{toplam}	= Dişli ünitesindeki toplam tahvil oranı	i_{total}	= Gear units total ratio
i_{ges}	= Tahvil oranı	i_{ges}	= Reduction ratio
M_2	= Çıkış momenti [Nm]	M_2	= Output torque [Nm]
M_{amax}	= Müsaade edilebilir maksimum çıkış momenti [Nm]	M_{amax}	= Max. permissible output torque [Nm]
n_2	= Çıkış devri [d/dk]	n_2	= Output speed [min^{-1}]
P_e	= Mamax referans alınarak hesaplanan güç [kW]	P_e	= Calculated power [kW] with reference to Mamax
P_n	= Motor güç oranı [kW]	P_n	= Motor power [kW]
η	= Verim [%]	η	= Efficiency [%]
kg	= Redüktörün ağırlığı	kg	= Weight of the geared motor

TR PSH TANITIMI

POLAT HELİSEL - SONSUZ DİŞLİ ÜNİTESİ (PSH)

Helisel - sonsuz dişli üniteleri motor mili ile çıkış şaftı arasında 90° açı olan dişli üniteleridir. Bu yüzden uygulamalarda (sistem) faydalı özellik sağlar. Bu katalogta belirtilen tüm helisel - sonsuz dişli üniteleri çok kademelidir.

Helisel - sonsuz dişli ünitelerinin helisel dişlileri yüksek alaşımlı çelikten yapılmış olup, dişliler sertleştirilmiştir. Dişli geometrileri ve düzeltmeleri optimize edilerek tek gövde prensibine göre hassas şaft hizalaması, yüksek yük kapasitesi, uzun servis ömrü ve düşük ses sağlanmış olur.

Sonsuz kademedeki çark sertleştirilmiş olduğu gibi özel bronzdan yapılmış ve şaft üzerine sıkıca sabitlenmiştir. Bu kombinasyon uzun servis ömrünü garanti etmektedir. Modern CNC tezgahlarında üretilen helisel-sonsuz dişli üniteleri düzenli proses kontrolü yapılarak en yüksek ürün kalitesi, siz değerli müşterilerimize sunulur.

Helisel - sonsuz dişli üniteleri ömürleri için fabrikada yüksek kalitede poliglikol tabanlı sentetik uzun ömür yağı ile doldurulur. Bu sentetik yağ sürtünmeyi düşürerek uzun servis ömrü ve yüksek verim sağlamış olur.

Helisel-sonsuz dişli ünitelerinden PSH 2040'dan PSH 2125' e kadar iki kademe olarak mevcuttur. Bu ünitelere yüksek tahvil oranları için indirgeyici gövde montajlanarak 3 kademeli sunulmaktadır. Bunlar ise PSH 3050'den PSH 3125'e kadar toplam 5 gövde büyüklüğünde sağlanmaktadır.

Helisel - Sonsuz Dişli Üniteleri

Çıkış gücü 0,12 kW'dan 15 kW'a kadar
maksimum çıkış momenti 3570 Nm, 6 gövde büyüklüğü

P_1 : 0,12 kW .....15 kW
M_2 : 3 ..... 3570 Nm

EN DESCRIPTION OF PSH

POLAT HELICAL - WORM GEAR UNIT (PSH)

There is a 90° between motor shaft and output shaft in helical-worm gear units. For that reason this features provide more benefits in applications (in system). All helical-worm gear units in this catalogue have multi-stage reduction.

Helical gears of helical-worm gear units are machined from high alloy steels and case hardened. According to monoblock principle and optimizing the teeth geometries, precise shaft alignment,high load capacity, long service life and low noise are provided.

In worm reduction, worm wheel is special bronz material and heat treated at the same time it is fixed to the output shaft. This combination is guaranteed long service life. Helical-worm gear units which are machined in latest version of CNC tools and allways checked regularly in process control, are offered to you with high quality level.

For long service life of helical-worm gear units, gearboxes are filled with high quality synthetic oil which have polyglicol base. This synthetic oil is decreased friction effect and provided long service life, high efficiency.

In helical-worm gear units, from PSH 2040 to PSH 2125 is two stage reduction. For high reduction ratio three-stage reduction is offered when reduction case is mounted to the two stage reduction gear units. These are PSH 3050 to PSH 3125 and offered totaly in 5 case width.

Helical-Worm Gear Units

Approx. 3570 Nm output moment
altering power from 0.12 kW to 15 kW

P_1 : 0,12 kW .....15 kW
M_2 : 3 ..... 3570 Nm

MAX. MÜSAADE EDİLEBİLİR ÇIKIŞ MOMENTİ $M_{amax.}$

MAX. PERMISSIBLE OUTPUT TORQUES $M_{amax.}$

117-135

İki ve Üç kademeli helisel-sonsuz redüktör

Helical-worm gear units, double and triple stage reduction




Tip/Type	$M_{amax.}$ (Nm)	**Tip**/Type	$M_{amax.}$ (Nm)
PSH 2040	100		
PSH 2050	185	**PSH 3050**	195
PSH 2063	360	**PSH 3063**	380
PSH 2080	710	**PSH 3080**	770
PSH 2100	1420	**PSH 3100**	1590
PSH 2125	2850	**PSH 3125**	3090

TR W ve IEC ADAPTÖR KULLANIMI

W ve IEC Adaptör

W kovanlı redüktörlerin max. tahrik gücü geçerli olan çıkış devri ve tahvil oranına göre tablolarda verilmiştir. (Bknz 115-135) IEC adaptörlü dişli ünitelerinde, her gövde büyüklüğünün standart gücü DIN EN 50347'ye göre verilir. P1 değeri W ve IEC seçim sayfalarında listelenmiştir. Bu listedeki değerlerden fazla bir güç istenirse özel hesaplamalar gerekmektedir. Lütfen danışınız.

Kaldırma, asansör ve bu gibi insan yaralanmalarına neden olabilecek çalışmalar için özel hesaplamalar gerekmektedir. Lütfen PGR' ye danışınız. Direk motor montajlı redüktörle karşılaştırmak gerekirse IEC ilave mil kaplinine ve extra rulman yataklanmasına sahiptir. Direk motor montajına göre IEC bağlantılı redüktörlerde güç kayıpları daha fazladır. PGR olarak biz direk motor montajını öneririz. Bu size sadece teknik avantaj değil finansal olarak da avantaj sağlar.

EN USING OF W AND IEC ADAPTER

W and IEC Adapter for Gear Units

The way of selecting W cylinder (with free input shaft) and IEC adapter are listed on page 115-135. Maximum power are given according to gear reduction ratio and output speed. Gear units with IEC adapter standard power are specified according to DIN EN 50347. For other power values which are not shown on table, special calculations are required for operating safety limits. For these cases, please contact PGR.

On the other hand for operations where accident could be caused personnel damage special calculation must be required, please consult us. Direct motor mounting has a lot of advantage according to mounting of IEC adapter.
At gear units with IEC adapter has additional solid shaft coupling and bearing seats for that reason power losses are greater than direct motor mounting. Last but not least direct motor mounting could be provided more technical and financial advantage.

TR KULLANIM ALANLARI

EN APPLICATION AREAS

UYGULAMALAR	APPLICATIONS
KARIŞTIRICILAR	**AGITATORS (MIXERS)**
* Saf Sıvılar * Sıvılar ve Katılar * Değişken Yoğunluklu Sıvılar	* Pure Liquids * Liquids and Solids * Liquids - Variable Density
HAVALANDIRMA TERTİBATLARI	**BLOWERS**
* Santrifüj * Lob * Pervane	* Centrifugal * Lobe * Vane
MAYALAMA VE DAMITMA	**BREWING AND DISTILLING**
* Şişeleme Mekanizması * Mayalama Kazanları - Kesintisiz İş * Fırınlar, Ocaklar - Kesintisiz İş * Ezme, Karışım Kazanları - Kesintisiz İş * Ölçü Haznesi - Sık Sık Başlama	* Bottling Machinery * Brew Kettles - Continuous Duty * Cookers - Continuous Duty * Mash Tubs - Continuous Duty * Scale Hopper - Frequent Starts
TOPRAK İŞLEME MAKİNELERİ	**CLAY WORKING MACHINERY**
* Tuğla Presi * Briket Makinesi * Çamur Karma Makinesi	* Brick Press * Briquette Machine * Pug Mill
KOMPRESÖRLER	**COMPRESSORS**
* Santrifüj * Lob * Çok Pistonlu * Tek Pistonlu	* Centrifugal * Lobe * Reciprocating, Multi-Cylinder * Reciprocating, Single-Cylinder
KONVEYÖRLER - GENEL MAKSATLI	**CONVEYORS - GENERAL PURPOSE**
* Üniform Yüklü * Üniform Yüklü Olmayan * Pistonlu veya Karıştırıcılı	* Uniformly Loaded or Fed * Not Uniformly fed * Reciprocating Or Shaker
VİNÇLER	**CRANES**
* Kuru Havuz Ana Kaldırma vinci Yardımcı Vinç Direkli Vinç Döndürme İşi Çekme İşi * Endüstriyel İşi Ana Kaldırma Vinci	* Dry Dock Main Hoist Auxiliary Hoist Boom Hoist Slewing Drive Traction Drive * Industrial Duty Main Hoist
ASANSÖRLER	**ELEVATORS**
* Kova * Santrifuj Boşaltma * Yürüyen Merdiven * Taşıma, Nakliye * Yerçekimi Boşaltım	* Bucket * Centrifugal Discharge * Escalators * Freight * Gravity Discharge
KIRMA MAKİNELERİ	**CRUSHER**
* Taş ya da Maden	* Stone or Ore

TR KULLANIM ALANLARI

EN APPLICATION AREAS

UYGULAMALAR	APPLICATIONS
TARAMA MAKİNELERİ	**DREDGES**
* Kablo Bobinleri	* Cable Reels
* Konveyörler	* Conveyors
* Pompalar	* Pumps
* İstifleme Makineleri	* Stackers
* Vinçler	* Winches
EKSTRUDERLER	**EXTRUDERS**
* Genel	* General
* Plastikler	* Plastics
Değişken Hızlı Tahrik	Variable Speed Drive
Sabit Hızlı Tahrik	Fixed Speed Drive
*Kauçuk, Lastik	*Rubber
Kesintisiz Vida İşlemleri	Continuous Screw Operation
Kesintili Vida İşlemleri	Intermittent Screw Operation
FANLAR	**FANS**
* Santrifüj	* Centrifugal
* Yüksek Emişli	* Forced Draft
* İndüklenmiş Çekiş	* Induced Draft
* Endüstriyel ve Maden Ocağı	* Industrial and Mine
BESLEME ÜNİTELERİ	**FEEDERS**
* Palet	* Apron
* Bant	* Belt
* Disk	* Disc
* Pistonlu	* Reciprocating
* Vida	* Screw
GIDA ENDÜSTRİSİ	**FOOD INDUSTRY**
* Hububat Fırını	* Cereal Cooker
* Hamur Karıştırıcı	* Dough Mixer
* Kıyma Makinesi	* Meat Grinder
* Dilimleyici	* Slicer
METAL İŞLEMELERİ	**METAL MILLS**
* Çekme Makinesi Taşıma ve Ana Tahrik	* Draw Bench Carriage and Main Drive
* Hammadde İticileri	* Slab Pushers
* Makaslar	* Shears
* Tel Çekme	* Wire Drawing
* Tel Sargı Makinesi	* Wire Winding Machine
* Salgı Tezgahı	* Runout Table
Geri Dönmesiz	Non-Reversing
Tek Tahrik	Individual Drives
Grup Tahriki	Group Drives
DÖNER İŞLEMELER	**MILLS (ROTARY TYPE)**
* Küresel ve Çubuk	* Ball and Rod
Düz Halka Dişli	Spur Ring Gear
Helisel Halka Dişli	Helical Ring Gear
Doğrudan Bağlı	Direct Connected
* Çimento Fırını	* Cement Kilns
* Kurutucular ve Soğutucular	* Dryers and Coolers

TR KULLANIM ALANLARI

EN APPLICATION AREAS

UYGULAMALAR

KERESTE ENDÜSTRİSİ

* Kabuk Soyucular
  - Besleme Tamburu
  - Ana Tahrik
* Konveyörler
  - Brülör
  - Ana Yük veya Ağır Yük
  - Ana Kütük
  - Hızar ve Taşıma Bandı
  - Kalın Dilim
  - Taşıma
* Kesme Testereleri
  - Zincir
  - Sürükleme
* İndirme Boşaltma Tamburları
* Uzun Deste
* Tomruk Çekme-Eğme
* Kütük Döndürme Aygıtları
* Sıralama Tablası
* Taşıma
  - Zincir
  - Kreynyolu
* Tabla Tahriki

KAĞIT İŞLEMELERİ

* Karıştırıcı
* Saf çözeltiler İçin Karıştırıcı
* Kabuk Soyma Tromelleri
* Mekanik Kabuk Soyucu
* Dövücü - Öğütücü
* Düzleştirme Makinesi
* Kalenderleme
* Yüzey Pürüzlendirici
* Çentik Besleyici
* Kaplama Merdanesi
* Konveyörler
  - Çentik, Kabuk, Kimyasal
  - Kalın Dilimler İçeren Kütükler
* Kesici
* Silindir Kalıpları
* Kurutucu
  - Kağıt Makinesi
  - Konveyör Tip
* Kabartmalı Basıcı
* Ekstrüder
* Kağıt Merdaneleri
* Presler
* Küspe Makinesi
* Pompalar

FİLTRELER

* Havalı Yıkama
* Döner - Taş veya Çakıl
* Hareketli Su Girişi

APPLICATIONS

LUMBER INDUSTRY

* Barkers
  - Spindle Feed
  - Main Drive
* Conveyors
  - Burner
  - Main or Heavy Duty
  - Main Log
  - Re-saw, Merry-Go-Round
  - Slab
  - Transfer
* Cut-Off Saws
  - Chain
  - Drag
* Debarking Drums
* Long Deck
* Log Hauls - Incline
* Log Turning Devices
* Sorting Table
* Transfers
  - Chain
  - Causeway
* Tray Drives

PAPER MILLS

* Agitator (Mixer)
* Agitator for Pure Liquors
* Barking Drums
* Mechanical Barkers
* Beater
* Breaker Stack
* Calender
* Chipper
* Chip Feeder
* Coating Rolls
* Conveyors
  - Chip, Bark, Chemical
  - Log (including Slab)
* Cutter
* Cylinder Molds
* Dryer
  - Paper Machine
  - Conveyor Type
* Embosser
* Extruder
* Paper Rolls
* Presses
* Pulper
* Pumps

SCREENS

* Air Washing
* Rotary - Stone or Gravel
* Traveling Water Intake

TR KULLANIM ALANLARI

EN APPLICATION AREAS

UYGULAMALAR	APPLICATIONS
PLASTİK ENDÜSTRİSİ İLK İŞLEMLER	**PLASTIC INDUSTRY PRIMARY PROCESSING**
* Yoğun İç Karıştırıcılar Harmanlayıcı Kesintisiz Karıştırıcı	* Intensive Internal Mixers Batch Mixers Continuous Mixers
PLASTİK ENDÜSTRİSİ İKİNCİL İŞLEMLER	**PLASTIC INDUSTRY SECONDARY PROCESSING**
* Hacim Kalıpçıları * Kaplama * Tabaka * Boru * Ön Plastikleştirme * Rot * Saç, Plaka * Borular	* Blow Molders * Coating * Film * Pipe * Pre-Plasticizers * Rods * Sheet * Tubing
POMPALAR	**PUMPS**
* Santrifüj * Oranlama * Pistonlu Tek Tesirli - 3 veya daha fazla Silindir Çift Tesirli - 2 veya daha fazla Silindir * Döner Şanzuman Tipi Lob Pervane	* Centrifugal * Proportioning * Reciprocating Single Acting - 3 or more cylinders Double Acting - 2 or more cylinders *Rotary Gear Type Lobe Vane
KAUÇUK - LASTİK ENDÜSTRİSİ	**RUBBER INDUSTRY**
* Yoğun İç Karıştırıcılar Harmanlayıcılar Kesintisiz Karıştırıcılar *Karıştırma İşlemi 2 Yumuşak Merdane 1 veya 2 Oluklu Merdane * Toplu İşleme - 2 Yumuşak Silindir * Kırıcı ve Isıtıcı - 2 Merdane, 1 Oluklu Merdane * Kırıcı - 2 Oluklu Merdane * Tutma, Besleme, Karıştırma İşlemi - 2 Merdane * Arıtıcı - 2 Merdane * Kalenderler	* Intensive Internal Mixers Batch Mixers Continuous Mixers * Mixing Mill 2 Smooth Rolls 1 or 2 corrugated Rolls * Batch Drop Mill - 2 Smooth Rolls * Cracker Warmer-2 Rolls,1 Corr. Roll * Cracker - 2 Corrugated Rolls * Holding, Feed and Blend Mill - 2 Rolls * Refiner - 2 Rolls * Calenders
ATIK SU BOŞALTIM EKİPMANLARI	**SEWAGE DISPOSAI EQUIPMENT**
* Çubuklu Elek * Kimyasal Besleme Üniteleri * Su Boşaltma Eleği * Köpük Kesici * Yavaş veya Hızlı Karıştırıcılar * Tortu Toplayıcı * Koyulaştırıcı * Vakumlu Filtre	* Bar Screens * Chemical Feeders * Dewatering Screen * Scum Breaker * Slow or Rapid Mixers * Sludge Collector * Thickener * Vacuum Filter
KOMPAKTÖRLER	**COMPACTORS**
ÇEKTİRMELER - YAVAŞ VE KUVVETLİ	**PULLERS - BARGE HAUL**

TR KULLANIM ALANLARI

EN APPLICATION AREAS

UYGULAMALAR	APPLICATIONS
ŞEKER ENDÜSTRİSİ	**SUGAR INDUSTRY**
* Pancar Dilimleme Aleti * Kamış Bıçakları * Kırma Makineleri	* Beet Slicer * Cane Knives * Crushers
TEKSTİL ENDÜSTRİSİ	**TEXTILE INDUSTRY**
* Harman Ölçer * Kalenderler * Şablonlar * Kuru Konserveler * Boyama Makinesi * Dokuma Tezgahları * Çamaşır Sıkma Makinesi - Merdane * Kaplama * Doldurma Makinesi * Haşıl Makinesi * Halat Yıkama Makinesi * Eğirme Makinesi * Germe Kurutma Makineleri * Yıkama Makineleri * Masura Sarıcısı	* Batcher * Calenders * Cards * Dry Cans * Dyeing Machinery * Looms * Mangle * Napper * Pads * Siashers * Soapers * Spinners * Tenter Frames * Washers * Winders
DAMPERLİ ARAÇLAR	**CAR DUMPERS**
ÇEKİCİ ARAÇLAR	**CAR PULLERS**
ARITICILAR	**CLARIFIERS**
KONSERVE DOLUM MAKİNELERİ	**CAN FILLING MACHINES**

TR KULLANILAN TERİMLER

EN NOMENCLATURE

REDÜKTÖR TİPİ GEAR TYPE		REDÜKTÖR DİZAYNI GEAR DESIGN	
Ayak Montajlı Foot Mounted		**TMA**	**= Ayak montajlı, Tek mil çıkışlı** Foot mounted, Solid shaft
PSH 2040...PSH 2125 =	**İki kademeli, Helisel Sonsuz Dişlili redüktör** Double reduction, helical-worm gearboxes	**ÇMA**	**= Ayak montajlı, Çift mil çıkışlı,** Foot mounted, Solid shaft on both sides
PSH 3050...PSH 3125 =	**Üç kademeli, Helisel Sonsuz Dişlili redüktör** Triple reduction, helical-worm gearboxes	**DG/B14**	**= Gövdeden montajlı, Delik milli, B14 flanşlı** Case mounted, Hollow shaft, Flange B14
		DG/B5	**= Gövdeden montajlı, Delik milli, B5 flanşlı** Case mounted, Hollow shaft, Flange B5
		DG/KS-B14	**= Gövdeden montajlı, Delik milli, Konik sıktırmalı, B14 flanşlı** Case mounted, Hollow shaft, Shrink disk connector, Flange B14
Gövdeden Montajlı Flange Mounted		**DG/TK**	**= Gövdeden montajlı, Delik milli, Tork kollu** Case mounted, Hollow shaft, Torque arm
PSH 2040...PSH 2125 =	**İki kademeli, Helisel Sonsuz Dişlili redüktör** Double reduction, helical-worm gearboxes	**DG/Ç**	**= Gövdeden montajlı, Delik milli, Çektirmeli** Case mounted, Hollow shaft, Fixing element
PSH 3050...PSH 3125 =	**Üç kademeli, Helisel Sonsuz Dişlili redüktör** Triple reduction, helical-worm gearboxes	**DG/Ç/KK**	**= Gövdeden montajlı, Delik milli, Çektirmeli, Koruma Kapaklı** Case mounted, Hollow shaft, Fixing element with cover
		DG/KS/KK	**= Gövdeden montajlı, Delik milli, Konik sıktırmalı, Koruma Kapaklı** Case mounted, Hollow shaft, Shrink disk connector with cover
Gövdeden Montajlı / B5 Flanşlı Case Mounted / Flange B5		**TMG/B5**	**= Gövdeden montajlı, Tek mil çıkışlı, B5 flanşlı** Case mounted, Solid shaft, Flange B5
PSH 2040...PSH 2125 =	**İki kademeli, Helisel Sonsuz Dişlili redüktör** Double reduction, helical-worm gearboxes		
PSH 3050...PSH 3125 =	**Üç kademeli, Helisel Sonsuz Dişlili redüktör** Triple reduction, helical-worm gearboxes		

TR KULLANILAN TERİMLER

EN NOMENCLATURE

Giriş Aksamları Input Options	Motor Motor	Kutup Numarası Number of Poles	Motor Seçenekleri Motor Options
IEC = DIN 42677' ye göre standart motorlar için aksamlar = For assembly with IEC standard motors acc. to DIN 42677	**Üç fazlı motor** **Motor boyutu 63 - 315** Three phase motor Motor size 63 - 315	**2 = 2 Kutuplu** = 2 - Poles	**BRE = Frenli** = With brake
W = Motorsuz girişli redüktörler için aksam = With free input shaft	**EExell = Patlamaya karşı güvenliği arttırılmış üç fazlı motor** = Explosion proof three phase motor increased safety	**4 = 4 Kutuplu** = 4 - Poles	**EF = Tek fazlı, fanlı** = Separate fan, single phase
T = Turbo kaplin = Turbo coupling		**6 = 6 Kutuplu** = 6 - Poles	**ZF = Çift fazlı, fanlı** = Separate fan, double phase
		4 - 2 = 1:2 oranında hız değiştirici dahlander bağlantısı = Pole changing 1:2 Dahlander connection	**DF = Üç fazlı, fanlı** = Separate fan, three phase
		8 - 2 = 1:4 oranında hız değiştirici ayrılmış sarmal dizilişli = Pole changing 1:4 Separate windings	**IG = Enkoderli** = With encoder
		Diğer kutup kombinasyonları talep karşısında karşılanacaktır Other pole combinations on request	**KK/FK = Debriyajlı** = With clutches
			SR = Toza karşı korumalı fren = Brake dust - proof
			TF = Termistörlü = Thermistor
			RG = Korozyon korumalı frenli = Brake corrosion - protected
			WU = Yumuşak kalkışlı rotor = Soft start rotor
			B = Geri dönmeye karşı kilitli = Backstop
			TW = Isıya duyarlı = Thermal trip
			HL = Manuel frenli motor = Brake motor with hand release

TR PSH MODÜLER SİSTEMİ

EN MODULAR SYSTEM OF PSH

Elektrik Motoru (Frenli)
Electric Motor (With Brake)

Elektrik Motoru (Frensiz)
Electric Motor (Without Brake)

Helisel Sonsuz,
Delik Milli Redüktör
Helical-Worm,
Hollow Shaft Reducer
Gövdeden Montajlı
Case Mounted
25 - 27

Helisel Dişlili İndirgeç
Helical Reduction Gearcase

Helisel Sonsuz,
Mil Çıkışlı Redüktör
Helical-Worm,
Solid Shaft Reducer
Ayak Montajlı
Foot Mounted
25 - 27

IEC Adaptörü
IEC Adapter

W Kovanı
Free Input Shaft

Elektrik Motoru (Frenli)
Electric Motor (With Brake)

Elektrik Motoru (Frensiz)
Electric Motor (Without Brake)

W Kovanı
Free Input Shaft

Elektrik Motoru (Frenli)
Electric Motor (With Brake)

IEC Adaptörü
IEC Adapter

Elektrik Motoru (Frensiz)
Electric Motor (Without Brake)

TR MEVCUT DİZAYNLARA GENEL BAKIŞ

EN OVERVIEW TO AVAILABLE DESIGNS

Kısaltmalar Abbrev	**Anlamı** Meaning	**Helisel Sonsuz Dişlili Redüktör** Helical Worm Gear Units
DG/B5	**Gövdeden montajlı, Delik milli, B5 flanşlı** Case mounted, Hollow shaft, Flange B5	✓
DG/B14	**Gövdeden montajlı, Delik milli, B14 flanşlı** Case mounted, Hollow shaft, Flange B14	✓
DG/TK	**Gövdeden montajlı, Delik milli, Tork kollu** Case mounted, Hollow shaft, Torque arm	✓
Ç	**Çektirme elementli** Fixing elements for hollow shaft	✓
KK	**Koruma kapaklı** Cover as a touch guard	✓
IEC	**IEC adaptörü** Adapter for mounting B5 IEC standard motors	✓
ÇMA	**Ayak montajlı, Çift mil çıkışlı** Foot mounted, Solid shaft on both sides	✓
B	**Kilit** Integrated backstop	✓
WB	**W kilidi** Backstop in W adapter	✓
KS	**Konik sıktırma** Hollow shaft with shrink disc	✓
TMG/B5	**Gövdeden montajlı, Tek mil çıkışlı, B5 flanşlı** Case mounted, Solid shaft, Flange B5	✓
GR	**Güçlendirilmiş rulman** Reinforced bearing	✓
TMA	**Ayak montajlı, Tek mil çıkışlı** Foot mounted, Solid shaft	✓
W	**W kovanı** Free input shaft	✓

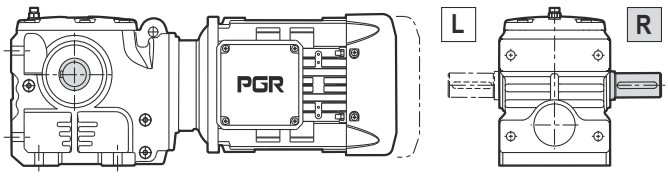
TR ÜRÜNLERİMİZ

EN PRODUCTS

PSH 2080...TMA- 80S/4A R

Tek mil çıkışlı, Ayak montajlı,
Helisel sonsuz dişlili, Motorlu redüktör

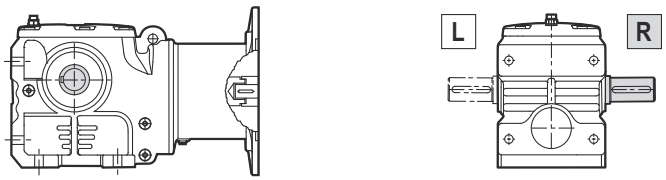
Helical worm geared motor,
Solid shaft, Foot mounted, With motor



PSH 2080...TMA - IEC 80 R

Tek mil çıkışlı, Ayak montajlı,
Helisel sonsuz dişlili, IEC Adaptörlü redüktör

Helical worm geared motor,
Solid shaft, Foot mounted, With IEC adapter



PSH 2080...TMA - W R

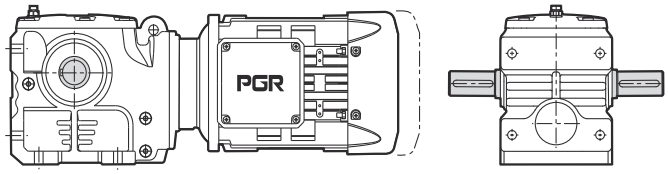
Tek mil çıkışlı, Ayak montajlı,
Helisel sonsuz dişlili, W kovanlı redüktör

Helical worm geared motor,
Solid shaft, Foot mounted, With free input shaft

PSH 2080...ÇMA - 80S/4A

Çift mil çıkışlı, Ayak montajlı,
Helisel sonsuz dişlili, Motorlu redüktör

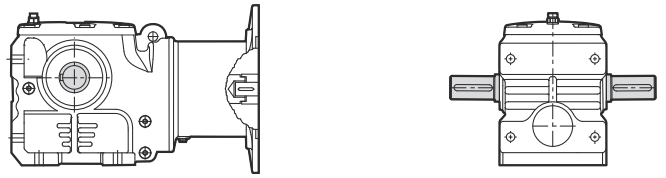
Helical worm geared motor,
Solid shaft on both sides, Foot mounted, With motor



PSH 2080...ÇMA - IEC 80

Çift mil çıkışlı, Ayak montajlı,
Helisel sonsuz dişlili, IEC adaptörlü redüktör

Helical worm geared motor,
Solid shaft on both sides, Foot mounted, With IEC adapter



PSH 2080...ÇMA - W

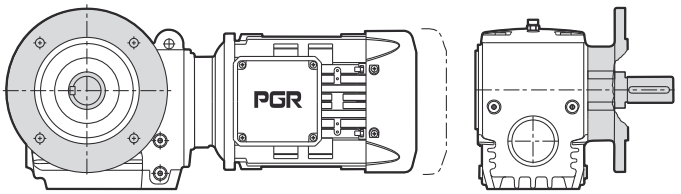
Çift mil çıkışlı, Ayak montajlı,
Helisel sonsuz dişlili, W kovanlı redüktör

Helical worm geared motor,
Solid shaft on both sides, Foot mounted, With free input shaft

PSH 2080...TMG/B5 - 80S/4A

Tek mil çıkışlı, Gövdeden montajlı, B5 Flanşlı
Helisel sonsuz dişlili, Motorlu redüktör

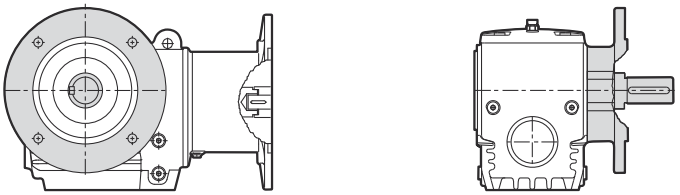
Helical worm geared motor,
Solid shaft, case mounted, Flange B5, With motor



PSH 2080...TMG/B5 - IEC 80

Tek mil çıkışlı, Gövdeden montajlı, B5 Flanşlı
Helisel sonsuz dişlili, IEC Adaptörlü Redüktör

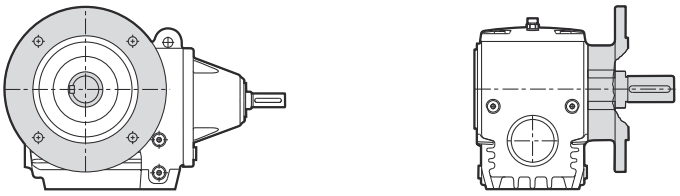
Helical worm geared motor,
Solid shaft, case mounted, Flange B5, With IEC Adapter



PSH 2080...TMG/B5 - W

Tek mil çıkışlı, Gövdeden montajlı, B5 Flanşlı
Helisel sonsuz dişlili, W kovanlı redüktör

Helical worm geared motor,
Solid shaft, case mounted, Flange B5, With free input shaft



TR ÜRÜNLERİMİZ

PSH 2080...DG/TK - 80S/4A R

Delik milli, Gövdeden montajlı, Tork kollu
Helisel sonsuz dişlili, Motorlu redüktör

Helical worm geared motor,
Hollow shaft, Case mounted, Torque arm, With motor

PSH 2080...DG/TK - IEC 80 R

Delik milli, Gövdeden montajlı, Tork kollu
Helisel sonsuz dişlili, IEC adaptörlü redüktör

Helical worm geared motor,
Hollow shaft, Case mounted, Torque arm, With IEC adapter

PSH 2080...DG/TK - W R

Delik milli, Gövdeden montajlı, Tork kollu
Helisel sonsuz dişlili, W kovanlı redüktör

Helical worm geared motor,
Hollow shaft, Case mounted, Torque arm, With free input shaft

PSH 2080...DG/KS - 80S/4A R

Delik milli, Gövdeden montajlı, Konik sıktırmalı
Helisel sonsuz dişlili, Motorlu redüktör

Helical worm geared motor,
Hollow shaft, Case mounted, Shrink disc, With motor

PSH 2080...DG/KS - IEC 80 R

Delik milli, Gövdeden montajlı, Konik sıktırmalı
Helisel sonsuz dişlili, IEC adaptörlü redüktör

Helical worm geared motor,
Hollow shaft, Case mounted, Shrink disc, With IEC adapter

PSH 2080...DG/KS - W R

Delik milli, Gövdeden montajlı, Konik sıktırmalı
Helisel sonsuz dişlili, W kovanlı redüktör

Helical worm geared motor,
Hollow shaft, Case mounted, Shrink disc, With free input shaft

PSH 2080...DG/Ç - 80S/4A R

Delik milli, Gövdeden montajlı, Çektirme elementli
Helisel sonsuz dişlili, Motorlu redüktör

Helical worm geared motor,
Hollow shaft, Case mounted, Fixing element, With motor

PSH 2080...DG/Ç - IEC 80 R

Delik milli, Gövdeden montajlı, Çektirme elementli
Helisel sonsuz dişlili, IEC adaptörlü redüktör

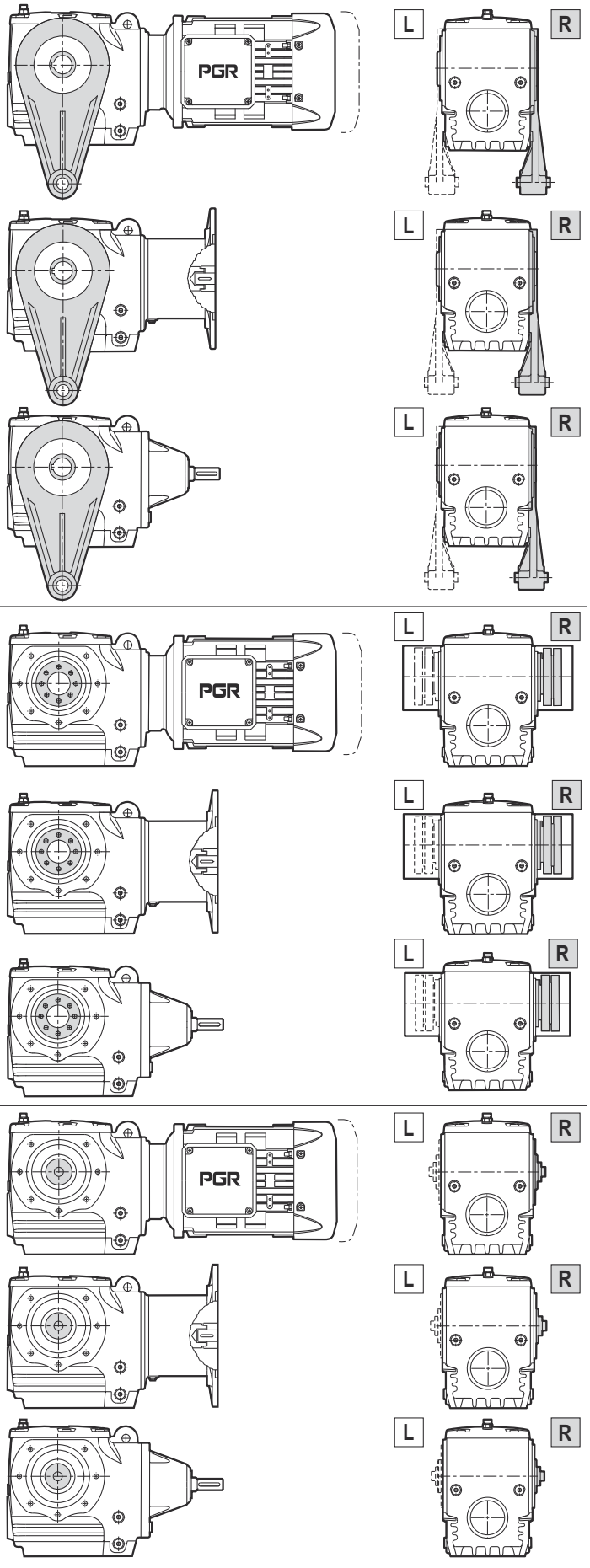
Helical worm geared motor,
Hollow shaft, Case mounted, Fixing element, With IEC adaper

PSH 2080...DG/Ç - W R

Delik milli, Gövdeden montajlı, Çektirme elementli
Helisel sonsuz dişlili, W kovanlı redüktör

Helical worm geared motor,
Hollow shaft, Case mounted, Fixing element, With free input shaft

EN PRODUCTS



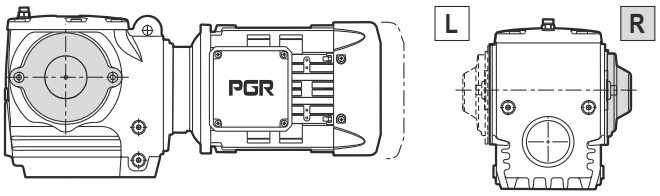
TR ÜRÜNLERİMİZ

EN PRODUCTS

PSH 2080...DG/Ç-KK - 80S/4A R

Delik milli, Gövdeden montajlı, Çektirme elementli, Koruma kapaklı, Helisel sonsuz dişlili, Motorlu redüktör

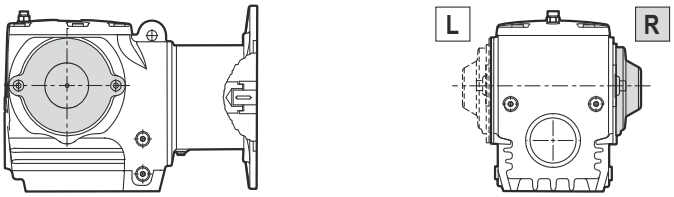
Helical worm geared motor, Hollow shaft, Case mounted, Fixing element and cover, With motor



PSH 2080...DG/Ç-KK - IEC 80 R

Delik milli, Gövdeden montajlı, Çektirme elementli, Koruma kapaklı, Helisel sonsuz dişlili, IEC adaptörlü redüktör

Helical worm geared motor, Hollow shaft, Case mounted, Fixing element and cover, With IEC adapter



PSH 2080...DG/Ç-KK - W R

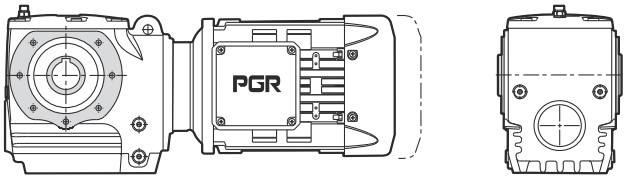
Delik milli, Gövdeden montajlı, Çektirme elementli, Koruma kapaklı, Helisel sonsuz dişlili, W kovanlı redüktör

Helical worm geared motor, Hollow shaft, Case mounted, Fixing element and cover, With free input shaft

PSH 2080...DG/B14 - 80S/4A

Delik milli, Gövdeden montajlı, B14 Flanşlı Helisel sonsuz dişlili, Motorlu redüktör

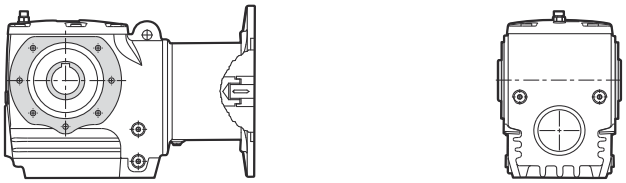
Helical worm geared motor, Hollow shaft, Case mounted, Flange B14, With motor



PSH 2080...DG/B14 - IEC 80

Delik milli, Gövdeden montajlı, B14 Flanşlı Helisel sonsuz dişlili, IEC adaptörlü redüktör

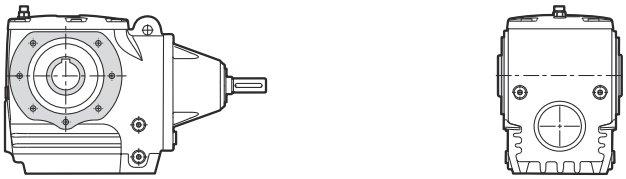
Helical worm geared motor, Hollow shaft, Case mounted, Flange B14, With IEC adapter



PSH 2080...DG/B14 - W

Delik milli, Gövdeden montajlı, B14 Flanşlı Helisel sonsuz dişlili, W kovanlı redüktör

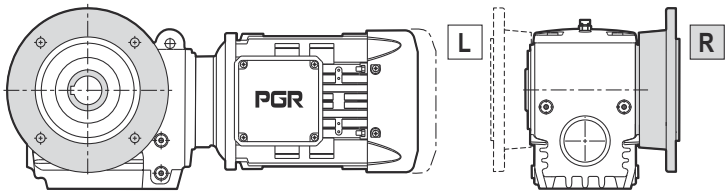
Helical worm geared motor, Hollow shaft, Case mounted, Flange B14, With free input shaft



PSH 2080...DG/B5 - 80S/4A R

Delik milli, Gövdeden montajlı, B5 Flanşlı Helisel sonsuz dişlili, Motorlu redüktör

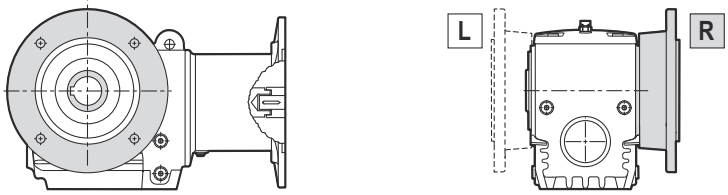
Helical worm geared motor, Hollow shaft, Case mounted, Flange B5, With motor



PSH 2080...DG/B5 - IEC 80 R

Delik milli, Gövdeden montajlı, B5 Flanşlı Helisel sonsuz dişlili, IEC adaptörlü redüktör

Helical worm geared motor, Hollow shaft, Case mounted, Flange B5, With IEC adapter



PSH 2080...DG/B5 - W R

Delik milli, Gövdeden montajlı, B5 Flanşlı Helisel sonsuz dişlili, W kovanlı redüktör

Helical worm geared motor, Hollow shaft, Case mounted, Flange B5, With free input shaft

TR SİPARİŞ ÖRNEĞİ

EN EXAMPLE FOR ORDERING

PSH **2100** **10.73** **DG/KS** **132 M / 4 BRE** **R**

Tip (POLAT Helisel - Sonsuz Redüktör)
Type (POLAT Helical - Worm Gearbox)

2
Kademe
Reduction
2
3
69-133

100
Sonsuz dişli merkezi ile çıkış şaftı merkezleri arası uzaklık
Distance between center of the worm gear and center of output shaft
040 050 063 080
100 125
69-133

İges: Tahvil
İges: Reduction
51-67

Standart Ürünler
Available standard products
DG/KS: Delik Milli, Konik Sıktırmalı
DG/KS: Hollow Shaft, Shrink Disc Connector

TMA ÇMA 25 - 27
DG/B14 DG/B5 DG/KS DG/TK DG/Ç
DG/Ç-KK TMG/B5 DG/KS-KK

PAM
63 71 80 90 100 112 132 160

IEC
63 71 80 90 100 112 132 160

W

Motorlu
With Motor

Gövde Büyüklüğü
Case Width
132 M
63 M
71 M
80 M
90 S/L
100 L
112 M
132 S/M
160 M/L

Kutup sayısı
Number of Poles
4
2
4
6
4 - 2
8 - 2

Diğer Kutup kombinasyonları istendiğinde karşılanacaktır.
Other pole combinations on request

Motor Aksesuarları
Motor Accessories
BRE
BRE
RG
SR
HL
TF
TW
WU
EF
ZF
DF
IG
KK/FK
B
22

Çıkış Yönü / Output Direction
L/R : Sol/Sağ / L/R : Left/Right
25 - 27

TR YAĞLAMA

Çalıştırmadan veya uzun süreli olarak depoya kaldırmadan önce kör tapa sökülüp, havalandırma tapası takılarak aşırı basınç ve yağ sızıntısı önlenmelidir.

Redüktörler fabrikadan çalışmaya hazır ve sentetik yağ doldurulmuş olarak gönderilirler. Bütün dişli üniteler aşağıdaki tablonun ortam sıcaklığı sütununda listesi verilen yağlayıcı (normal) ile dolu olarak sevk edilirler. Diğer ortam sıcaklıkları için listede verilen yağlayıcılar ek ücret karşılığında temin edilebilir.

Yağlayıcı her 10000 çalışma saatinde veya 2 yıl sonra değiştirilmelidir. Sentetik yağlar için yağ değişikliği her 20000 çalışma saatinde veya 4 yıl sonra yapılmalıdır. Zorlu çalışma koşullarında örneğin yüksek rutubet ve büyük sıcaklık değişimleri ve kötü çevre şartları gibi durumlarda daha kısa aralıklarla yağ değişimi yapılması tavsiye edilir. Yağ değişiminin üniteyi komple temizleme işlemi ile birleştirilmesi önerilir. Rulman içerisindeki gres her 10000 çalışma saatinde değiştirilmeli ve yeni gres ile doldurulmalıdır. Bu işlem yapılırken rulmanın 1/3 ünün gresle dolu olması sağlanmalıdır.

EN LUBRICATION

Lubricating oil properties and selection of oil must be correct for the reducers to have long life and to run with good performance. In order to prevent oil leakage during long period storage due to inner pressure, top plug should be removed according to assembly type and venting plug should be mounted.

Reducers are delivered as being filled with synthetic oil. Properties of oils depending on ambient temperature are presented at the following table. Gear units which are W or IEC adapter type and gear motors are charged with lubricant. Ambient temperature plays an important role for choosing lubricant. Relation between ambient temperature and properties of oils are shown in table.

Lubricants must be changed every 10000 hours or after two years, but this time changes when synthetic oil is used. Lubricants must be changed every 20000 hours or after four years if synthetic oil is used. However, operating conditions should be considered for changing oil time eg. in aggressive environment severe temperature changing, oil must be changed frequently. For bearings grease should be changed every 10000 running time and it should be done with fresh grease and least 1/3 of bearing must be covered.

Not: Sentetik ve mineral yağlayıcılar birbirine karıştırılmamalıdır.
Note: Consider that different kind of oil (synthetic and mineral oil) should not be mixed.

Redüktör Tipi Type of gearbox	Yağ Tipi Type of Lubricant	Ortam Sıcaklığı Ambient Temp. °C	ISO vizkozite sınıfı ISO viscosity class	SHELL	MOBİL	BP	ESSO	DEA	ARAL	CASTROL	TRIBOL	KLÜBER
Helisel Dişli Redüktör Helical Gearboxes	Mineral yağ Mineral oil	- 5...40 Normal -15...25 # - 50...-15	ISO VG 220 ISO VG 100 ISO VG 15	Shell Omala Oel 220 Shell omala Oel 100 Shell Tellus Oel T 15	Mobilgear 600 XP 220 Mobilgear 600 XP 150 Mobil DTE 10 Excel 15	Energol GR-XP 220 Energol GR-XP 100 Bartran HV 15	Spartan EP 220 Spartan EP 100 Univis J 13	Deagear DX SAE 85W-90 Falcon CLP 220 Deagear DX SAE 80W Falcon CLP 150 Alrkraft Hydraulic Oil 15	Degol BG 220 Degol BG 100 Vitamol 1010	Alpha SP 220 Alpha MW 220 Alpha MAX 220 Alpha SP 100 Alpha MW 100 Alpha MAX 220 Hyspin AWS 15 Hyspin SP 15 Hyspin ZZ 15	Tribol 1100/220 Tribol 1100/100 Tribol 770	Klüberoil GEM 1-220 Klüberoil GEM 1-100 Isoflex MT 30 rot
	Sentetik yağ Synthetic oil	- 25...80	ISO VG 220	Shell Tivela Oel WB	Mobil Glygoyle 30	Enersyn SG-XP 220	ESSO Glycolube 220	Polydea PGLP 220	Degol GS 220	Alphasyn PG 220	Tribol 800/220	Klübersynth GH 6 - 220
	Biyolojik Sentetik yağ Biodegradable oil	- 25...80	ISO VG 220					Plantogear 220 S	Bio-Degol S 220	Carelube GES 220	Tribol Bio Top1418/220	Klüber - Bio GM 2 - 220
	Gıda yağları Food - grade oil	- 25...80	ISO VG 220	Cassida 220	Mobil SHC Cibus 220		GEAR OIL FM 220	Renolin 220	Degol FG 220	OPTIMOL optileb GE 220	Tribol Food Proof 1810/220	Klüberoil 4UH1 - 220
	Akışkan sentetik gres Synthetic fluid grease	- 35...60		Shell Tivela compound A	Mobil SHC Polyrex 005	Enersyn GSF	Fliessfett S 420	Glissando 6833 EP 00	Aralub SKA 00	Alpha Gel 00	Tribol 800/1000	Klübersynth GE 46 -1200
Rulmanlar Anti Friction Bearings	Mineral yağlı gres Mineral oil grease	- 30...60 Normal # - 50...110		Alvania Fett R 3 oder Alvania Fett RL 3	Mobilux 3 Mobilux 2	Energrease LS 3 Energrease LS 2	Beacon 3 Beacon 2	Glissando 30 Glissando 20 Glissando FT 3	Aralub HL 3 Aralub HL 2 Aralub BAB EP 2	Spheerol AP 3 Spheerol AP 2 LZV - EP Spheerol EPL 2	Tribol 3030/100-2 Tribol 4020/220-2 Tribol 3785	Centoplex 3 Centoplex 2
	Sentetik gres Synthetic grease	# - 50...110		Aero Shell Grease 16 oder 7	Mobiltemp SHC 32		Beacon 325	Discor 8 - EP 2	Aralub SKL 2	Product 783/46	Tribol 3499	Isoflex Topas NB52

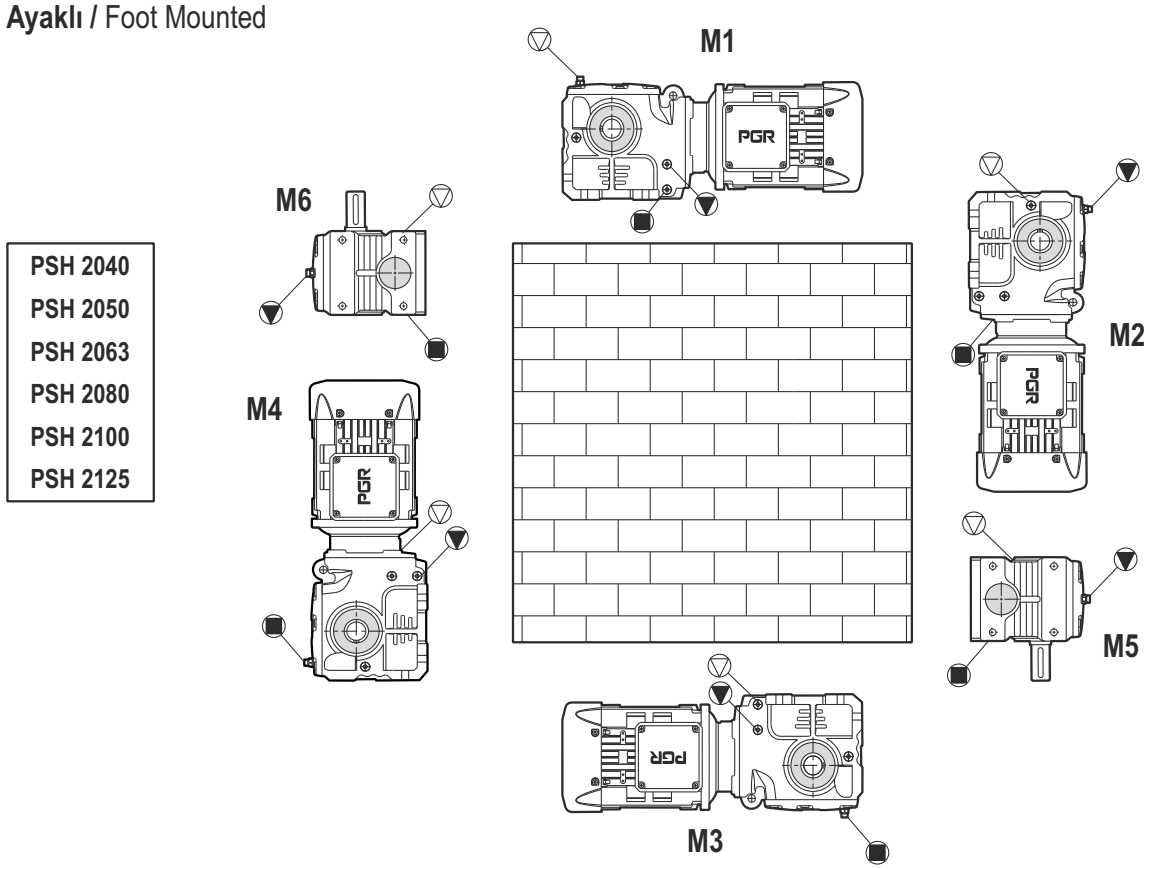
-30°C altında ve 60°C üzerindeki ortam sıcaklıklarında şafttaki sızdırmazlık elemanı için özel kalitedeki malzeme kullanılmalıdır.

Different materials should be used for sealing rings at operation temperature where temperature is below -30 ºC and above 60 ºC.

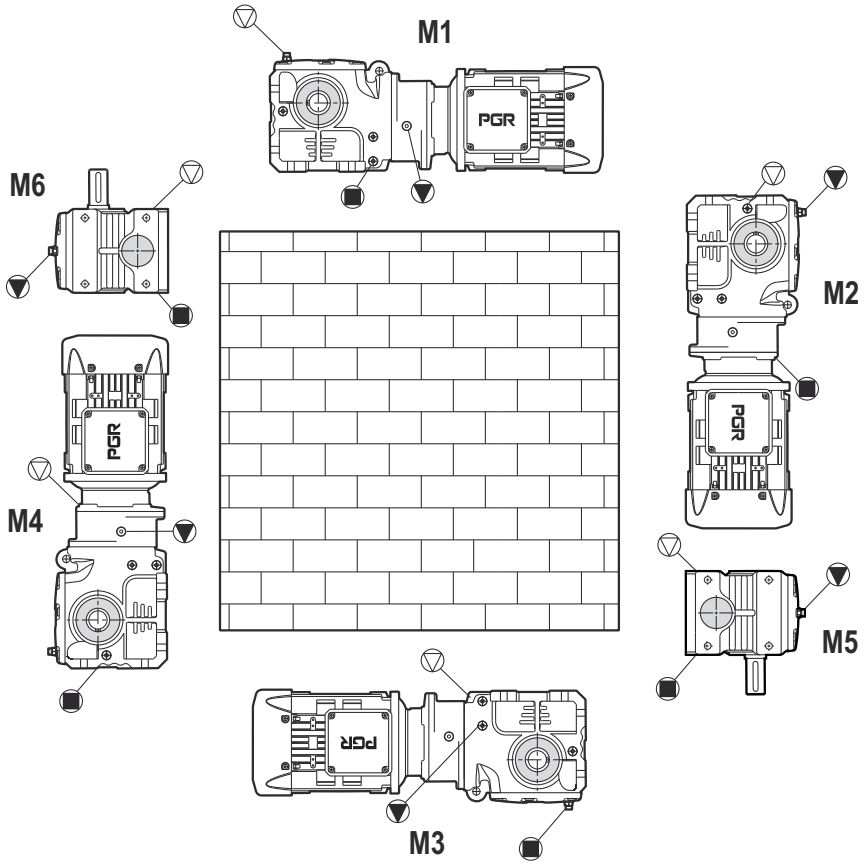
TR MONTAJ POZİSYONLARI

EN MOUNTING POSITIONS

PSH Ayaklı / Foot Mounted



PSH 2040
PSH 2050
PSH 2063
PSH 2080
PSH 2100
PSH 2125



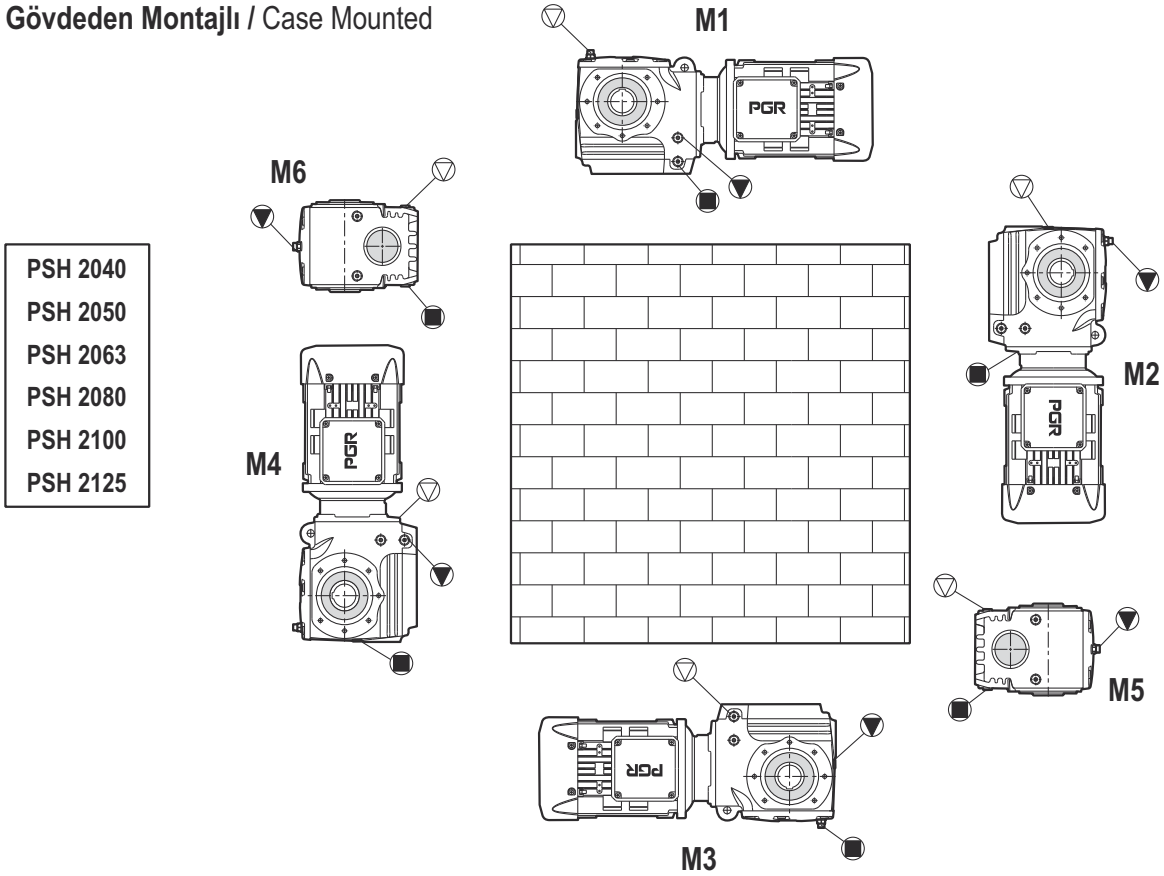
PSH 3050
PSH 3063
PSH 3080
PSH 3100
PSH 3125

Havalandırma tapası / Vent plug Boşaltma tapası / Drain plug Yağ Seviye tapası / Oil level

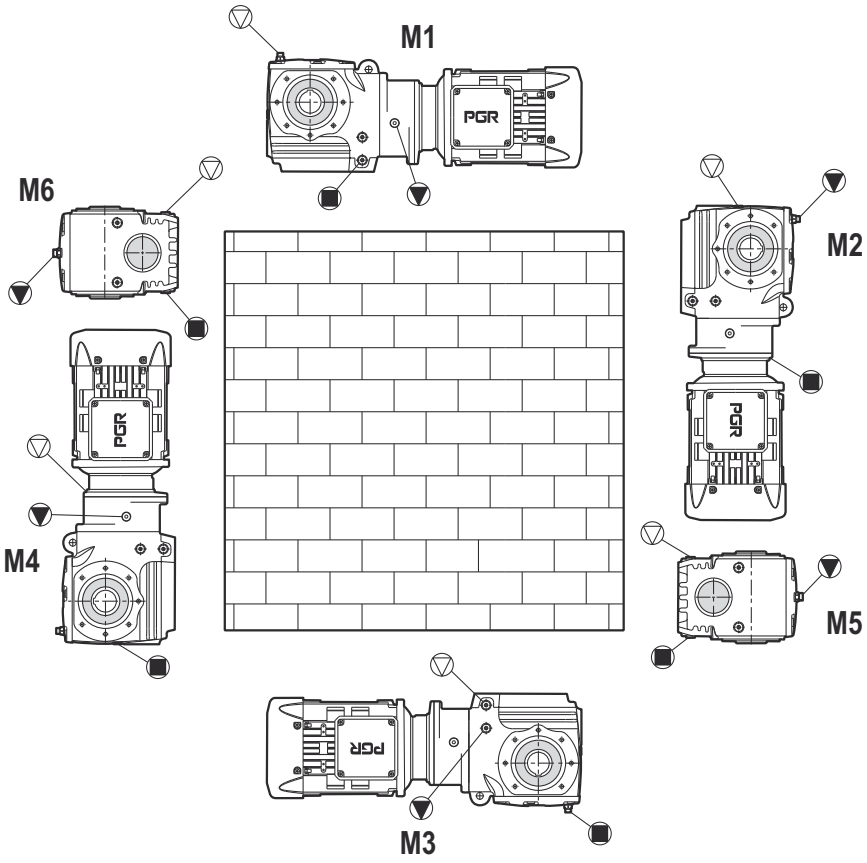
TR MONTAJ POZİSYONLARI

EN MOUNTING POSITIONS

PSH Gövdeden Montajlı / Case Mounted



PSH 2040
PSH 2050
PSH 2063
PSH 2080
PSH 2100
PSH 2125



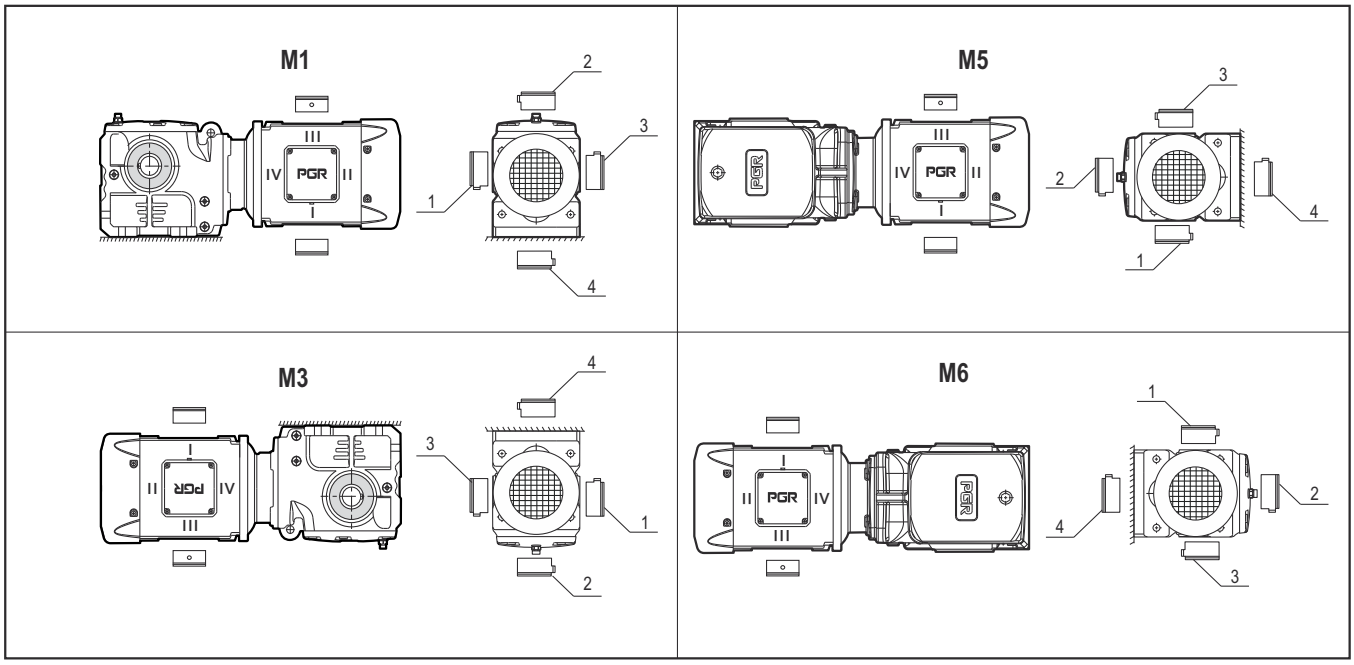
PSH 3050
PSH 3063
PSH 3080
PSH 3100
PSH 3125

Havalandırma tapası / Vent plug **Boşaltma tapası** / Drain plug **Yağ Seviye tapası** / Oil level

TR MONTAJ POZİSYONLARI

EN MOUNTING POSITIONS

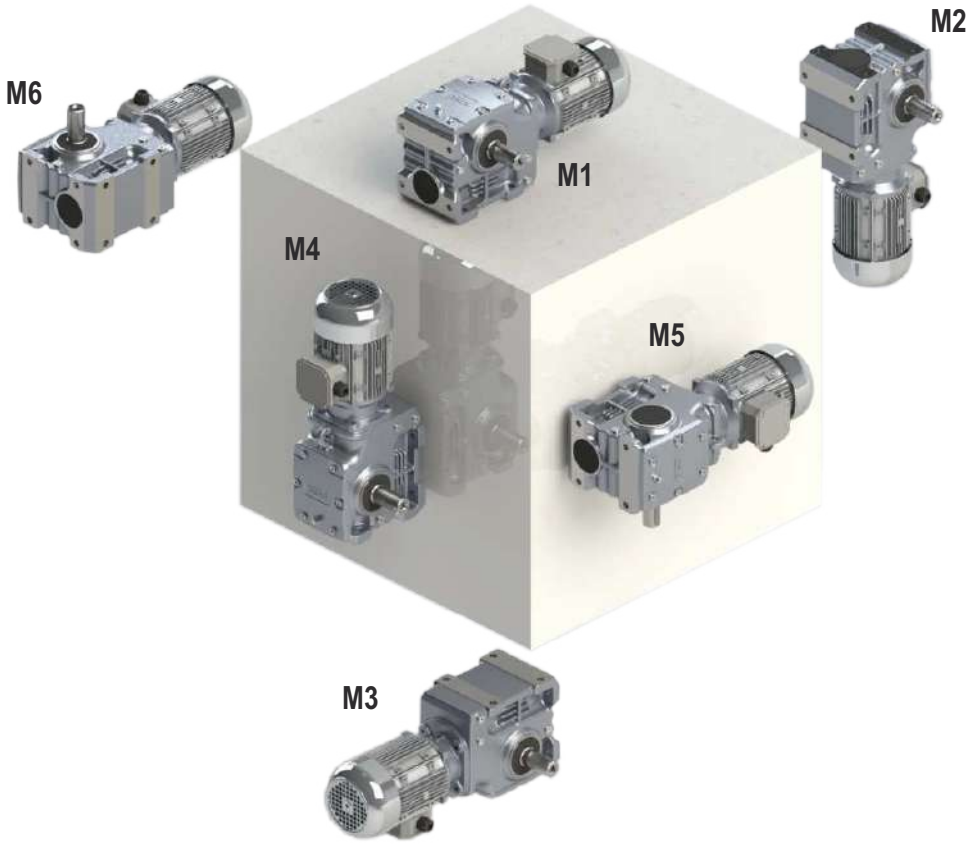
TERMİNAL KUTUSU VE KABLO GİRİŞ YÖNLERİ / POSITION OF TERMINAL BOX AND CABLE ENTRY

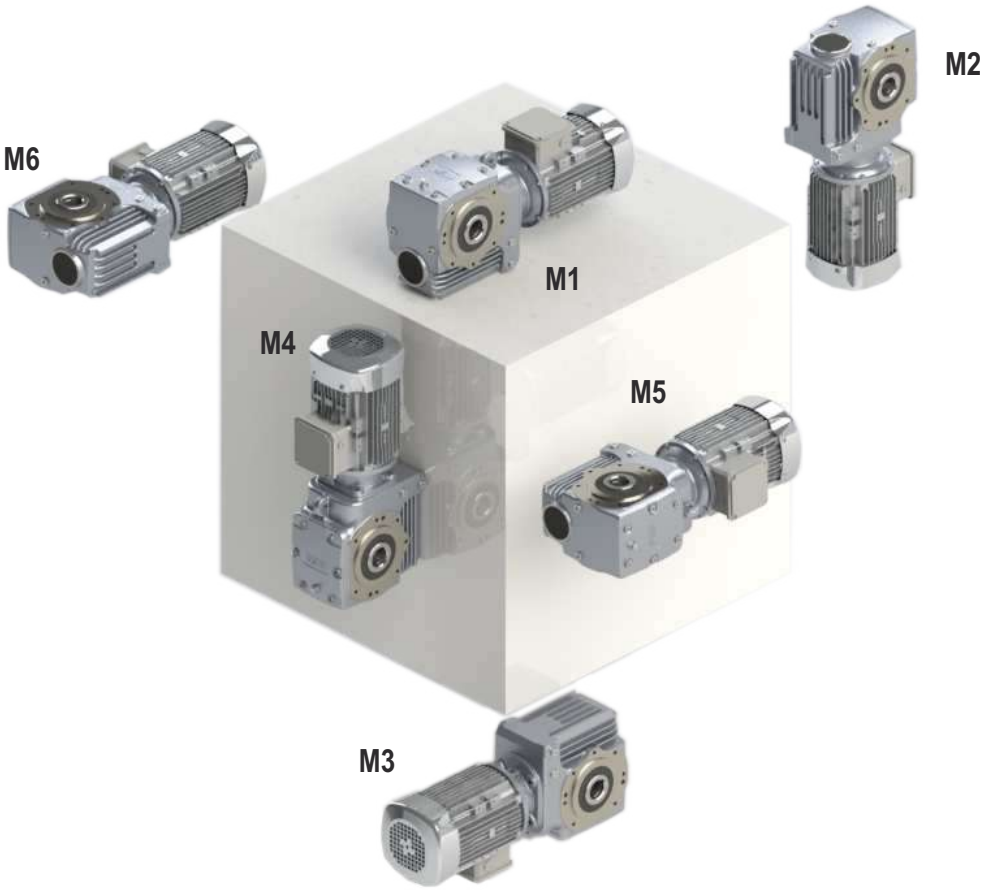


TR MONTAJ POZİSYONLARI

EN MOUNTING POSITIONS

Ayak Montajlı
Foot Mounted





Gövdeden Montajlı
Case Mounted

TR YAĞ MİKTAR TABLOSU

EN LUBRICATION LEVELS

(Litre) (L)	**Ayak Montajlı** / Foot Mounted						**Gövdeden Montajlı** / Case Mounted					
												
30-33	**M1**	**M2**	**M3**	**M4**	**M5**	**M6**	**M1**	**M2**	**M3**	**M4**	**M5**	**M6**
PSH 2040	0.50	0.65	0.65	0.65	0.55	0.55	0.55	0.85	0.80	0.65	0.55	0.55
PSH 2050	0.60	1.25	0.80	1.20	0.75	0.75	0.40	1.35	0.85	1.20	0.95	0.95
PSH 2063	0.45	1.80	1.35	1.65	1.05	1.05	0.45	1.60	1.25	1.60	1.35	1.35
PSH 2080	0.90	2.75	1.90	3.00	1.85	1.85	0.70	3.00	2.25	3.30	2.30	2.30
PSH 2100	1.60	6.00	3.80	5.95	3.50	3.50	1.35	5.70	4.40	5.00	4.00	4.00
PSH 2125	3.10	12.10	6.90	11.30	6.40	6.40	3.00	11.2	11.1	10.40	6.80	6.80

(Litre) (L)	**Ayak Montajlı** / Foot Mounted						**Gövdeden Montajlı** / Case Mounted					
												
30-33	**M1**	**M2**	**M3**	**M4**	**M5**	**M6**	**M1**	**M2**	**M3**	**M4**	**M5**	**M6**
PSH 3050	0.95	1.60	1.20	1.50	1.00	1.00	0.85	1.75	1.10	1.70	1.20	1.20
PSH 3063	0.90	2.40	1.75	2.10	1.30	1.30	0.90	2.10	1.50	1.95	1.60	1.60
PSH 3080	1.80	3.35	2.30	3.70	2.10	2.10	1.15	3.90	2.50	3.80	2.55	2.55
PSH 3100	2.20	8.10	4.40	7.35	4.00	4.00	2.15	6.90	5.00	7.10	4.45	4.45
PSH 3125	5.10	15.10	7.90	14.50	7.30	7.30	4.00	12.90	7.70	12.1	7.70	7.70

TR KİLİT

Opsiyonel olarak kilitlerimiz mevcuttur. Bu kilitler tek yöne dönmeye izin verirken, diğer yöne dönmeyi engeller. 63 gövde ve üzeri üç fazlı motorlar, W kovanları ve IEC adaptörleri yağlanması yapılmış kilit ile donatılabilir. Bu kilitler çıkartılabilir, merkezkaç kuvveti tarafından kontrol edilir ve yaklaşık olarak 900 d/dk üzerine çıktıktan sonra aşınmaya maruz kalır.

Kilit mekanizmalı redüktörler için çıkış şaftının veya milinin dönme yönünün verilmesi gerekir. Dönme yönü çıkış şaftına veya çıkış miline göre düzenlenir.

Kararlaştırılan dönme yönü için, tarif edilen dönme yönü her zaman çıkış şaftına veya miline göre düzenlenir. Delik milli redüktörler ise konik sıktırma tarafından belirlenir.

DİKKAT: Motoru ve sistemi çalıştırmadan önce redüktörün dönme yönünü kontrol ediniz. Redüktör üzerindeki oklar dönme yönünü gösterir.

Bloke edilen yön **CCW** ise Dönme Yönü **CW**

Bloke edilen yön **CW** ise Dönme Yönü **CCW**

CW : Saat yönü

CCW : Saat yönü tersi

EN BACKSTOP

Backstop system is available for all types of helical gear unit. Lubricated backstop system could be used optionally for motor size 63 and greater, W cylinder and IEC adapters. Backstop system permits just one direction rotation it resists another direction rotation. Rotation speed is important for abrasion. Nearly 900 min^{-1} and greater rotation speed influece abration.

Please, determine direction of rotation when you offer. Direction of rotation should be determined according to output shaft.

Arrows which is designated by 'CW' or 'CCW' shows locking direction from viewing at face of output shaft end. For hollow shafts gearboxes this direction determined by shrinkdisc side.

Precaution: When you receive gear units, please check direction of rotation before running or installation to avoid damage.

If Locking direction is **CCW,** Rotational direction is **CW**

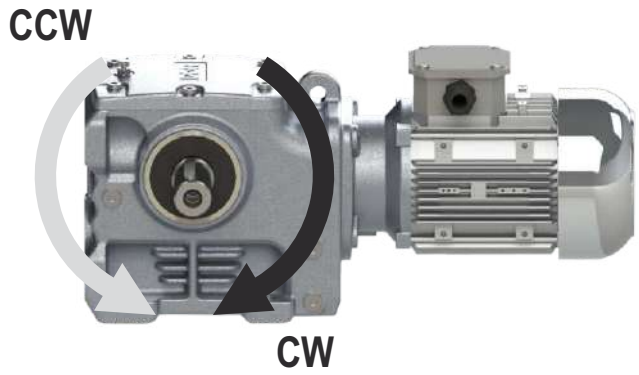
If Locking direction is **CW,** Rotational direction is **CCW**

CW : Clockwise rotation

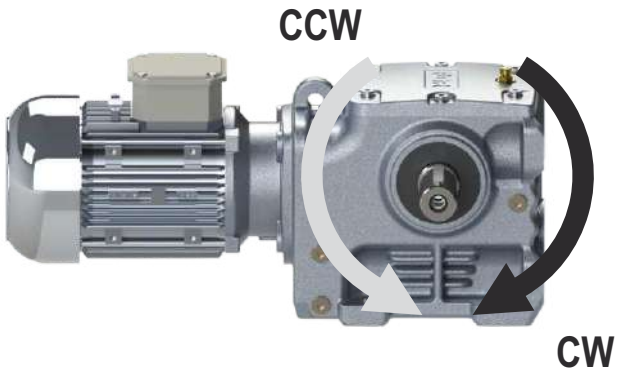
CCW : Counterclockwise rotation

Tip Type	**Çıkış Şaftı Dönüş Yönü: CW** Output shaft rotational direction: CW	**Çıkış Şaftı Dönüş Yönü: CCW** Output shaft rotational direction: CCW
2 kademe helisel - sonsuz redüktör **PSH 2040... PSH 2125** **Çıkış şaftı L veya konik sıktırma R'de** 2-stage helical worm gear motor: PSH 2040... PSH 2125 Output shaft position L or shrink disc at R	**Motor Dönüş Yönü CW** Motor rotational direction CW	**Motor Dönüş Yönü CCW** Motor rotational direction CCW
2 kademe helisel - sonsuz redüktör **PSH 2040... PSH 2125** **Çıkış şaftı R veya konik sıktırma L'de** 2-stage helical worm gear motor: PSH 2040... PSH 2125 Output shaft position R or shrink disc at L	**Motor Dönüş Yönü CCW** Motor rotational direction CCW	**Motor Dönüş Yönü CW** Motor rotational direction CW
3 kademe helisel - sonsuz redüktör **PSH 3050... PSH 3125** **Çıkış şaftı L veya konik sıktırma R'de** 3-stage helical worm gear motor: PSH 3050... PSH 3125 Output shaft position L or shrink disc at R	**Motor Dönüş Yönü CCW** Motor rotational direction CCW	**Motor Dönüş Yönü CW** Motor rotational direction CW
3 kademe helisel - sonsuz redüktör **PSH 3050... PSH 3125** **Çıkış şaftı R veya konik sıktırma L'de** 3-stage helical worm gear motor: PSH 3050... PSH 3125 Output shaft position R or shrink disc at L	**Motor Dönüş Yönü CW** Motor rotational direction CW	**Motor Dönüş Yönü CCW** Motor rotational direction CCW

A



B



TR TOLERANSLAR

MOTOR VE REDÜKTÖRLERDE BOYUT - ÇİZİM BİLGİLERİ

Motor ölçüleri istenen opsiyona göre ölçüleri değişebilir.

DELİK MİLLİLER

Delik mil çapı toleransı için (DIN 748) ISO H7.
Müşteri mili çap toleransı ISO h6. "H" yükleme tipi bulunuyorsa ISO k6

IEC - ADAPTÖR

Flanş merkezi çap toleransı için ISO H7

GİRİŞ VE ÇIKIŞ ŞAFTLARI

Mil çapı toleransı (DIN 748) :

Ø 14 ile Ø 50 mm arası için ISO k6,
Ø 50 mm üzeri için ISO m6

Şaftta diş çekilmiş delikler için DIN 332/2 ye göre;

= Ø 13 - Ø 16	M5
> Ø 16 - Ø 21	M6
> Ø 21 - Ø 24	M8
> Ø 24 - Ø 30	M10
> Ø 30 - Ø 38	M12
> Ø 38 - Ø 50	M16
> Ø 50 - Ø 85	M20
> Ø 85 - Ø 130	M24

69-113

Kama yatakları DIN 6885

Şaft boyu "h" DIN 747

FLANŞLAR

Flanş merkezi çap toleransı (DIN 42948);

≤ Ø 230 mm' ye kadar ISO j6,
> Ø 230 mm üzeri için ISO h6

EN TOLERANCES

DIMENSIONS OF GEARED MOTORS AND GEARBOXES- DRAWING INFORMATION

Motor dimension could be changed according to customer purchase.

HOLLOW SHAFTS

Tolerance of hollow shaft (DIN 748) ISO H7.
Tolerance of customer's solid shaft which is used for hollow shaft ISO h6, with type of load classification 'H' which is heavy-shock operation ISO k6.

IEC - ADAPTER

Diameter tolerance of flange centering is machined according to ISO H7.

INPUT AND OUTPUT SHAFT

Tolerances of solid shaft (DIN 748) :

between Ø 14 - Ø 50 mm to ISO k6,
greater than Ø 50 mm to ISO m6.

Tapped center hole is machined according to DIN 332, sheet 2;

= Ø 13 - Ø 16	M5
> Ø 16 - Ø 21	M6
> Ø 21 - Ø 24	M8
> Ø 24 - Ø 30	M10
> Ø 30 - Ø 38	M12
> Ø 38 - Ø 50	M16
> Ø 50 - Ø 85	M20
> Ø 85 - Ø 130	M24

69-113

Keyways are machined according to DIN 6885, sheet 1

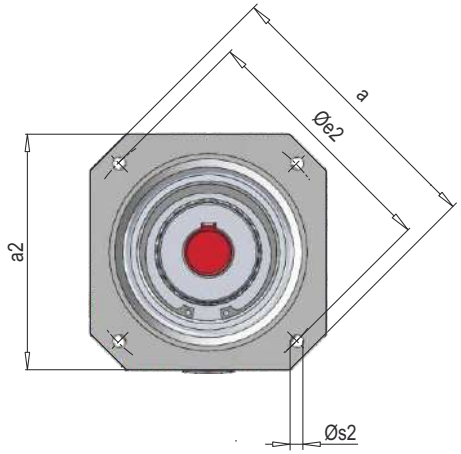
Shaft heights are machined according to "h" to DIN 747

FLANGES

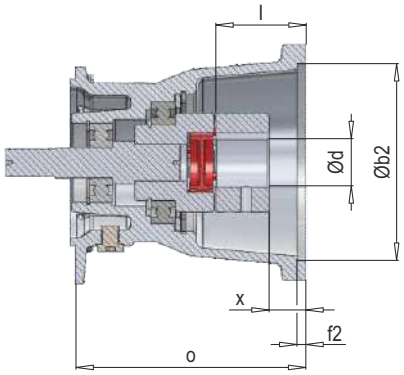
Diameter tolerance of flange centering is machined according to (DIN 42948);

≤ Ø 230 mm to ISO j6,
> Ø 230 mm to ISO h6

TR SERVOMOTOR ADAPTÖRÜ



EN SERVOMOTOR ADAPTERS



Redüktör Tipi Gear Unit Type	Motor Büyüklüğü / Motor Size							Şaft Ebatı Shaft Size		Silindir Cylinder	M_{knom} [Nm]	Adaptör Tipi Adapter Type
	a	a2	b2	e2	f2	s2	x	d	l	o		
PSH 2050 **PSH 2063** **PSH 2080**	120	96	80	100	4	M6	15	19	40	124	10	Servo 100/160 S
PSH 2050 **PSH 2063** **PSH 2080**	165	126	110	130	4	M8	20	24	50	136	35	Servo 130/160 S
PSH 2100	155	126	110	130	4	M8	20	24	50	150	35	Servo 130/250 S
PSH 2050 **PSH 2063** **PSH 2080**	186	155	130	165	5	M10	23	32	58	151	95	Servo 165/160 S
PSH 2100	186	155	130	165	5	M10	23	32	58	166	95	Servo 165/250 S
PSH 2100	240	192	180	215	5	M12	45	38	80	187	95	Servo 215/250 S
PSH 2125	240	192	180	215	5	M12	24	38	80	229	310	Servo 215/300 S
PSH 2125	350	260	250	300	5	M16	26	48	82	231	310	Servo 300/300 S

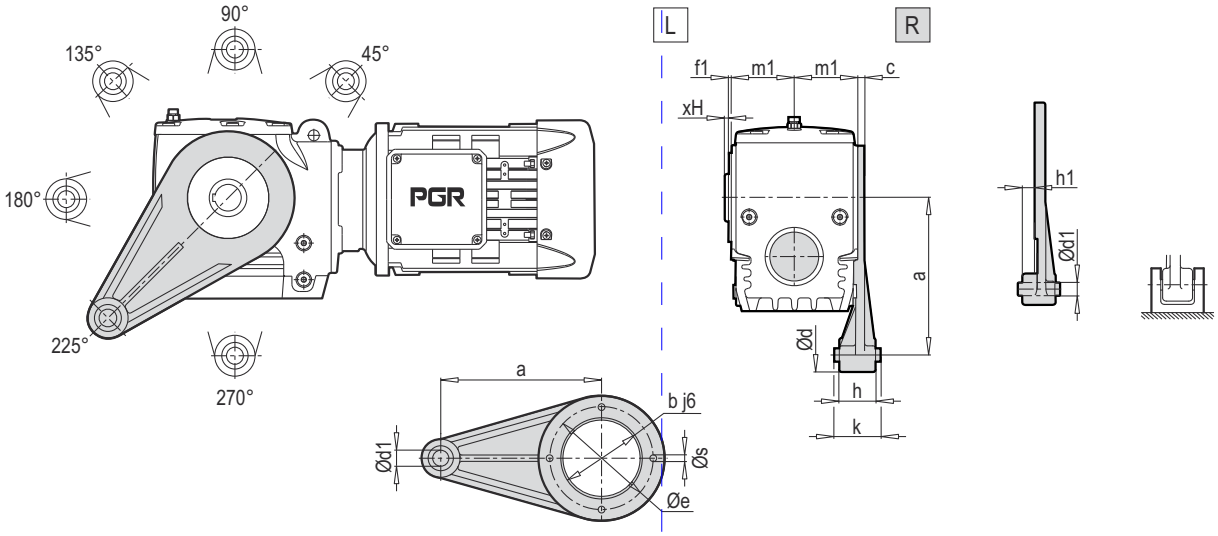
SEP tipi servo motor bağlantı adaptörünün bağlantısı kamalı olarak yapılmaktadır. SEK tiplerinde ise servo motor adaptörünün bağlantısı setuskur civata sıktırması ile yapılmaktadır.
Servo motor bağlantı adaptörünün bağlantı flanşının farklı olması durumunda yüksek adetteki siparişler üretime alınır.

For connecting SEP adapter which is shown above on this page, servo motor's output shaft is designed with locking key. For connecting SEK type adapter, connecting is supplied with a clamp coupling sleeve.
An intermediate flange is required when other servo motor types are used with IEC adapter. Offers are manufactured gladly by PGR.

TR TORK KOLU

EN TORQUE ARM

TK



Tork kolunun pozisyonlanması
Positions of torque arm

PSH 2050 DG/TK ... 2125 DG/TK için 45°...270° / PSH 2050 DG/TK ... 2125 DG/TK for 45°...270°
PSH 3050 DG/TK ... 3125 DG/TK için 45°...270° / PSH 3050 DG/TK ... 3125 DG/TK for 45°...270°
PSH 2040 için sadece 90° - 180° - 270° / Only 90° - 180° - 270° for PSH 2040

Tip Type	Montaj Ölçüleri Mounting Dimensions											Ana Ölçüler Outline Dimensions	
	a	b j6	c	d	d1	f1	h	h1	k	s	e	m1	xH
PSH 2040 DG/TK	110	60	10	35	10.5	-	32	8	36	6.6	75	57	3
PSH 2050 DG/TK	130	95	14	40	10.5	3	32	10	36	9	115	60	3
PSH 3050 DG/TK	130	95	14	40	10.5	3	32	10	36	9	115	60	3
PSH 2063 DG/TK	160	95	14	40	10.5	3	32	11.5	36	9	115	67	4
PSH 3063 DG/TK	160	95	14	40	10.5	3	32	11.5	36	9	115	67	4
PSH 2080 DG/TK	200	130	13.5	40	10.5	4	32	9	36	11	165	75	5
PSH 3080 DG/TK	200	130	13.5	40	10.5	4	32	9	36	11	165	75	5
PSH 2100 DG/TK	250	180	16	60	16.5	4	56	20.5	60	14	215	92	5
PSH 3100 DG/TK	250	180	16	60	16.5	4	56	20.5	60	14	215	92	5
PSH 2125 DG/TK	310	230	18	60	16.5	4	56	29.5	60	14	265	115	6
PSH 3125 DG/TK	310	230	18	60	16.5	4	56	29.5	60	14	265	115	6

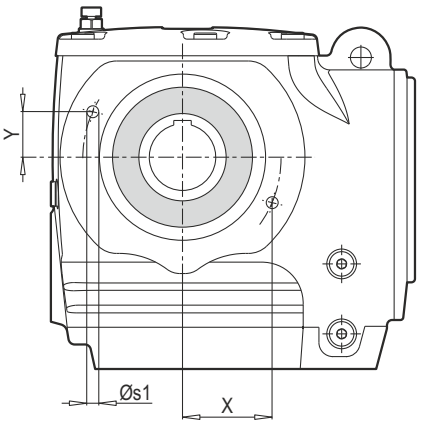
Sipariş verirken tork kolunun pozisyonunu belirtiniz. (Örn. 180°)
Tork kolu L yada R tarafına bağlanabilir.

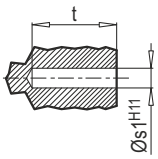
Determine position of torque arm when commission.(e.g. 180°)

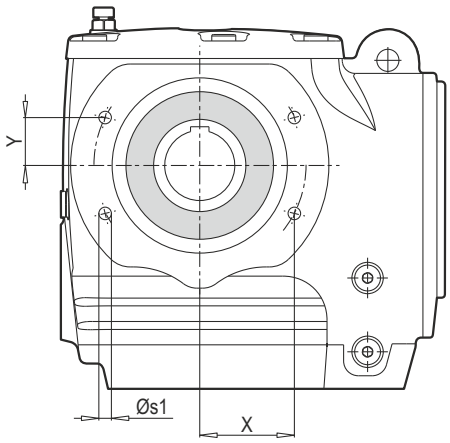
Determine mounted and connecting position for instance side L or side R of gear unit when you commission.

TR MERKEZLEME PİMİ

EN GUIDE PINS





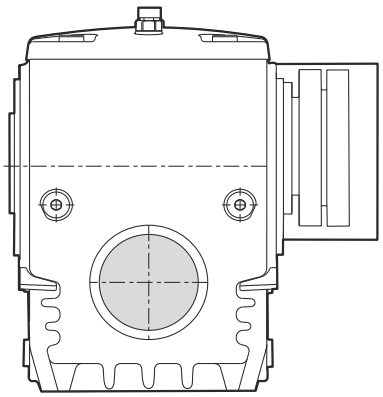


PSH 2050 DG ... PSH 3100 DG

PSH 2125 DG ... PSH 3125 DG

Tip / Type	**s1^{H11} x t**	**X**	**Y**
PSH 2050 DG **PSH 3050 DG**	2 X Ø8 X 12	56.14	12.45
PSH 2063 DG **PSH 3063 DG**	2 X Ø8 X 12	56.14	12.45
PSH 2080 DG **PSH 3080 DG**	2 X Ø10 X 15	80.54	17.86
PSH 2100 DG **PSH 3100 DG**	2 X Ø12 X 20	104.95	23.27
PSH 2125 DG **PSH 3125 DG**	4 X Ø12 X 20	111.75	71.19

TR KONİK SIKTIRMA



S = h6 veya f6 ile konik sıktırmanın güvenirliliği.

S = Assurance of shrink disc (with h6 and f6 tolerance)

M_A = Civatayı sıkmak için gerekli olan tork

M_A = Screw torque for tightening

Z_S = Vida miktarı

Z_S = Amount of screw

M_{amax} = max. izin verilebilir çıkış momenti

M_{amax} = maximum allowable output moment

Konik sıktırma, genellikle kullanıcı milinin karşı tarafına montaj edilmelidir. Şaft çapı ISO h6 veya f6'ya göre imal edilmelidir.

(f6= Kolay montaj)

EN SHRINK DISC

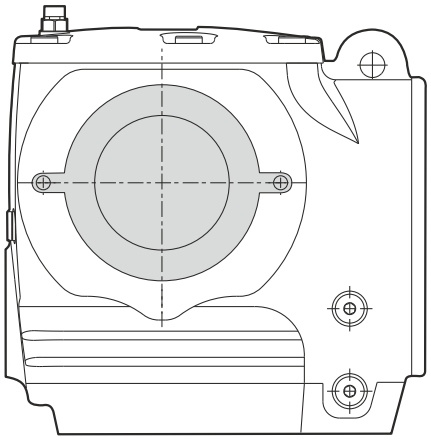
When customer shaft is installed to the gear unit, shrink disc should be mounted on opposite side of it. Customer diameter shaft should be machined according to ISO h6 or f6 tolerances.

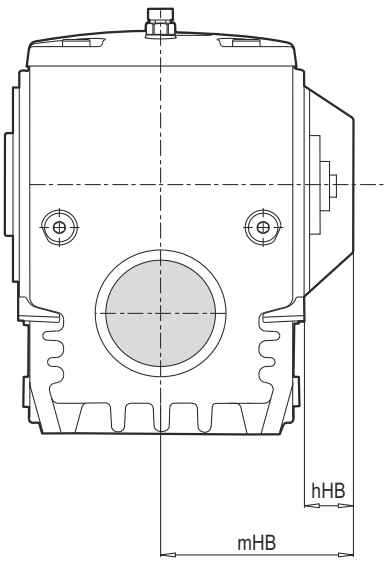
(f6= For easy assembling)

Redüktör Tipi Gearbox Type	**Konik Sıktırma** Shrink Disc				**Hexagonal Screw** Altıköşe Başlı Civata DIN 931 / DIN 933* 10.9Vz		
	Tip Type	**M_{amax} [Nm]**	**s^{h6}**	**s^{f6}**	**d x l**	**Zs**	**M_A [Nm]**
PSH 2050 KS-KK	KS 25 / 35	182	2.8	2.3	M5 X 25	8	7
PSH 2050 KS-KK	KS 30 / 40	182	5.4	4.7	M6 X 35*	8	12
PSH 2063 KS-KK	KS 30 / 40	383	2.6	2.2	M6 X 35*	8	12
PSH 2063 KS-KK	KS 35 / 46	383	3.0	3.2	M6 X 35*	10	12
PSH 2080 KS-KK	KS 40 / 55	779	3.0	2.6	M8 X 40	8	30
PSH 2080 KS-KK	KS 45 / 55	779	4.1	3.8	M8 X 40	8	30
PSH 2100 KS-KK	KS 50 / 62	1604	2.7	2.6	M8 X 40	10	30
PSH 2100 KS-KK	KS 60 / 76	1604	5.1	4.7	M10 X 50	10	59
PSH 2125 KS-KK	KS 60 / 76	3120	2.6	2.4	M10 X 50	10	59
PSH 2125 KS-KK	KS 70 / 90	3120	4.4	4.1	M12 X 70*	10	100

TR KORUMA KAPAĞI

EN COVER

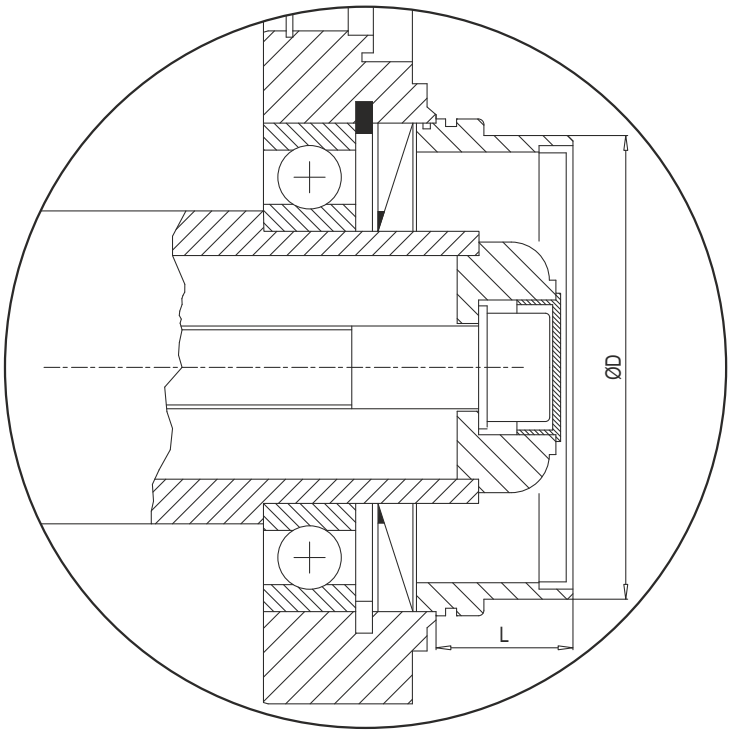




Tip / Type	**hHB**	**mHB**
PSH 2050 DG/KK **PSH 3050 DG/KK**	38	98
PSH 2063 DG/KK **PSH 3063 DG/KK**	38	105
PSH 2080 DG/KK **PSH 3080 DG/KK**	42	117
PSH 2100 DG/KK **PSH 3100 DG/KK**	50	142
PSH 2125 DG/KK **PSH 3125 DG/KK**	54	169

TR IP 66 UYGULAMASI

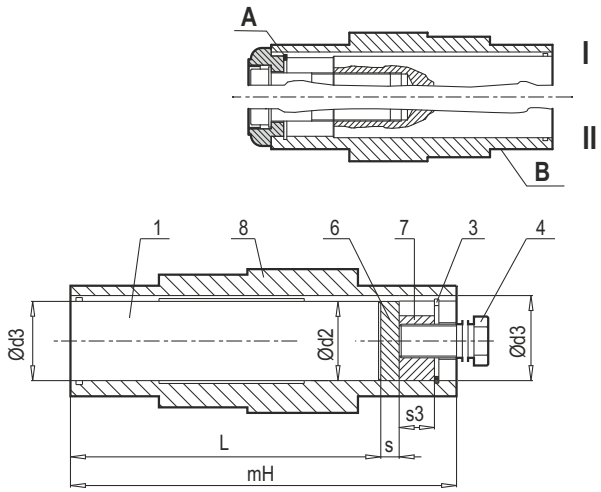
EN PROTECTION IP 66



Tip / Type	ØD	L
PSH 2050 PSH 3050	81	25
PSH 2063 PSH 3063	86	28
PSH 2080 PSH 3080	105	35
PSH 2100 PSH 3100	136	40
PSH 2125 PSH 3125	151	40

TR ÇEKTİRME KİTİ

Çektirme Kiti
Çektirme kiti, şaft montajlı dişli ünitelerinde opsiyonel olarak bulunur.
Kullanım Şartları:
- Kullanılacak müşteri milinin merkezinde DIN 332/2 standartlarında bir delik açılmalıdır.
- Müşterinin mili, faturalı yada faturasız olsa da, çektirme kiti ile sabitlenebilmektedir.
- I 'deki montaj kullanıldığında, müşteri mili, redüktör şaftı içinde bulunan segman ile tutturulur.(Parça A)
- II 'deki montaj kullanıldığında, müşteri milinin üzerinde bulunan fatura kullanılarak doğrudan redüktör şaftı üzerine tutturulur.(Parça B)



DEMONTAJ / DISASSEMBLY

L= max. kullanıcı şaft boyu

1) Müşteri mili
2) Rondela DIN 127
3) * İç Segman DIN 472
4) * Çektirme cıvatası
5) Alyan başlı cıvata DIN 912
6) * Yaylı rondela
7) * Somun
8) Redüktör şaftı
9) Çektirme rondelası

*Dikkat, yıldızlı ürünler PGR tarafından temin edilmez.

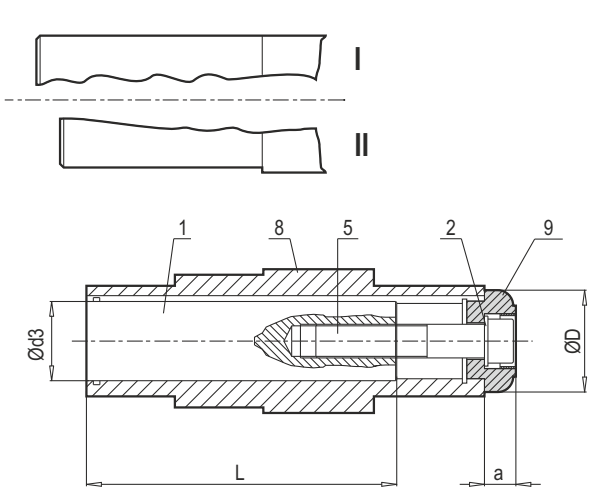
DEMONTAJ:
1) Alyanbaşlı cıvata sökülmelidir. (poz.5)
2) Çektirme rondelası çıkartılmalıdır. (poz.9)
3) Yaylı rondela takılmalıdır. (poz.6)
4) Somun yerleştirilmelidir. (poz.7)
5) Segman takılmalıdır. (poz.3)
6) Çektirme civatasını gevşeterek müşteri mili şafttan ayrılmalıdır. (poz.4)

KOŞULLAR:
Kullanıcı mili DIN 332/2' e göre merkezine diş açılmış delik gerekmektedir. Müşteri mili "L" uzunluğunu geçmemelidir aksi halde çektirme işlemi uygulanamaz. (poz. 5,6,7)

MONTAJ:
1) Müşteri mili, redüktör şaftının içerisine yerleştirilmelidir. (poz.8)
2) Çektirme rondelası redüktör şaftının içine yerleştirilmelidir.
3) Çektirme rondelası ile alyan başlı cıvata ve rondela sabitlenmelidir. (poz.2-5)

EN PULLER KIT

Puller Kit
The puller kit is optionally available on shaft mounted gear units.
Using conditions:
- The centre hole must be DIN 332/2 for customer solid shaft.
- The customer shaft can be fixed with the puller kit (with shoulder or withour shoulder)
- When the assembly in Fig. I is used, the customer shaft is fasten by the circlip in the gear unit shaft.(Track A)
- When the assembly in Fig. II is used,It is fasten directly to the gearbox shaft using the invoice on the customer shaft.



MONTAJ / ASSEMBLY

L= maximum length of the solid shaft

1) Customer's shaft
2) Washer DIN 127
3) * Circlip DIN 472
4) * Puller screw
5) Socket head screw DIN 912
6) * Thrust washer
7) * Nut
8) Hollow shaft
9) Puller washer

*Star signs are shown this item are not provided by PGR

DISASSEMBLING:
1) Loosen the socket head screw (5)
2) Remove puller washer (9)
3) Install spring washer (6)
4) Install nut(7)
5) Install circlip (3)
6) Remove solid shaft from hollow shaft with using puller screw (4)

CONDITIONS
The user shaft must be threaded to the center according to DIN 332/2.
The customer shaft must not exceed the "L" length, otherwise the puller cannot be applied. (pos. 5,6,7)

ASSEMBLING:
1) The customer shaft must be mounted inside the gear units shaft. (8)
2) The puller washer must be mounted inside the gear units shaft. (9)
3) The bolt and washer must be fixed with the puller washer. (2-5)

TR ÇEKTİRME ÖLÇÜ TABLOSU

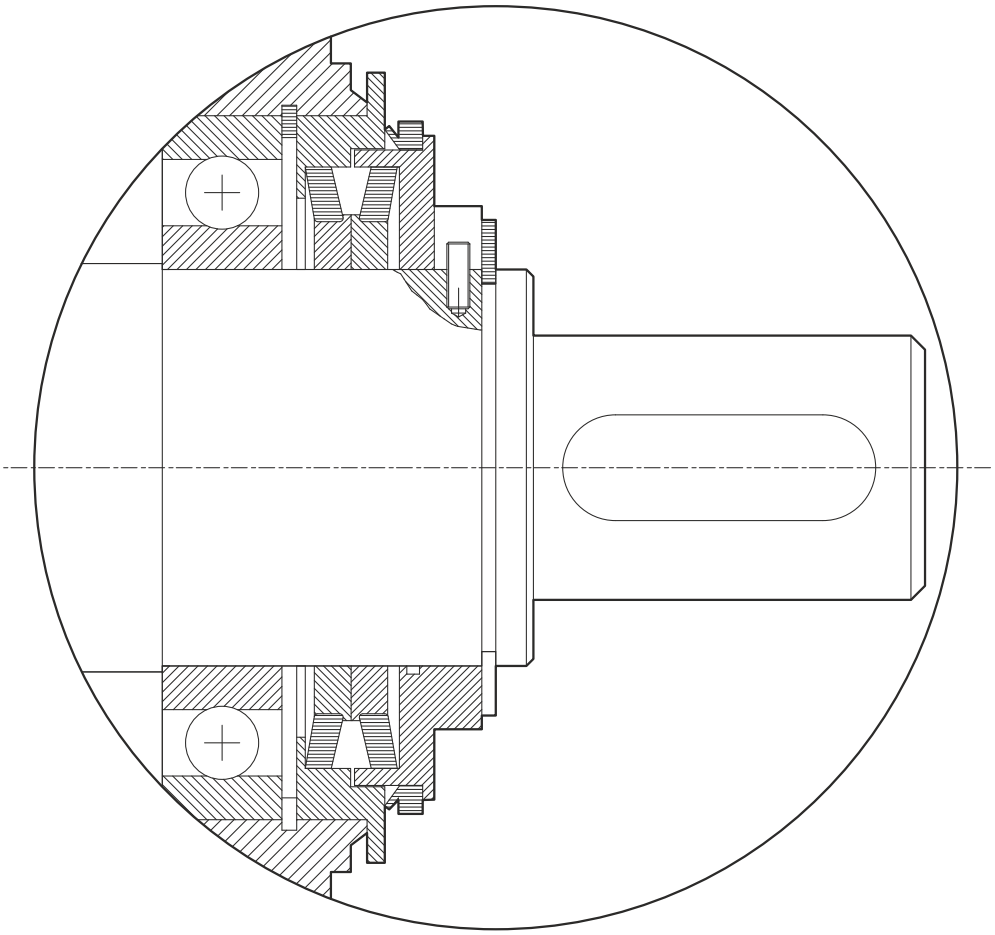
EN DIMENSION TABLE OF FIXING ELEMENT

PSH 2040 DG/Ç ... PSH 2125 DG/Ç

Tip / Type	1 L	2	3	4	5	6 d2	6 s	6 d3	7 s3	7	8 d x mH	9 a	9 D
PSH 2040 DG/Ç	100	A6	I 20 x 1.5	M10	M6 X 30	19.9	3	19.9	10	M10	20 X 120	15	30
PSH 2050 DG/Ç	110 110	A10 A10	I 25 x 1.2 I 30 x 1.2	M12 M12	M10 X 45 M10 X 45	24.9 29.9	3 3	24.9 29.9	12 12	M12 M12	25 X 132 30 X 132	20 20	38 40
PSH 2063 DG/Ç	125 120	A10 A12	I 35 x 1.5 I 40 x 1.75	M12 M16	M10 X 45 M12 X 55	29.9 34.9	3 3	12 16	12 16	M12 M16	30 X 148 35 X 148	20 24.5	40 45
PSH 2080 DG/Ç	135 135	A16 A16	I 40 x 1.75 I 45 x 2.0	M16 M16	M16 X 70 M16 X 70	39.9 44.9	4 4	39.9 44.9	16 16	M16 M16	40 X 168 45 X 168	25 26	55 60
PSH 2100 DG/Ç	165 155	A16 A20	I 50 x 2.0 I 60 x 2.0	M20 M24	M16 X 70 M20 X 70	49.9 59.9	4 5	49.9 59.9	20 24	M20 M24	50 X 202 60 X 202	26 30	65 75
PSH 2125 DG/Ç	205 205	A20 A20	I 60 x 2.0 I 70 x 2.5	M24 M24	M20 X 90 M20 X 90	59.9 69.9	5 5	59.9 69.9	24 24	M24 M24	60 X 250 70 X 250	30 30	75 95

TR MEKANİK KEÇE

EN MECHANICAL SEAL



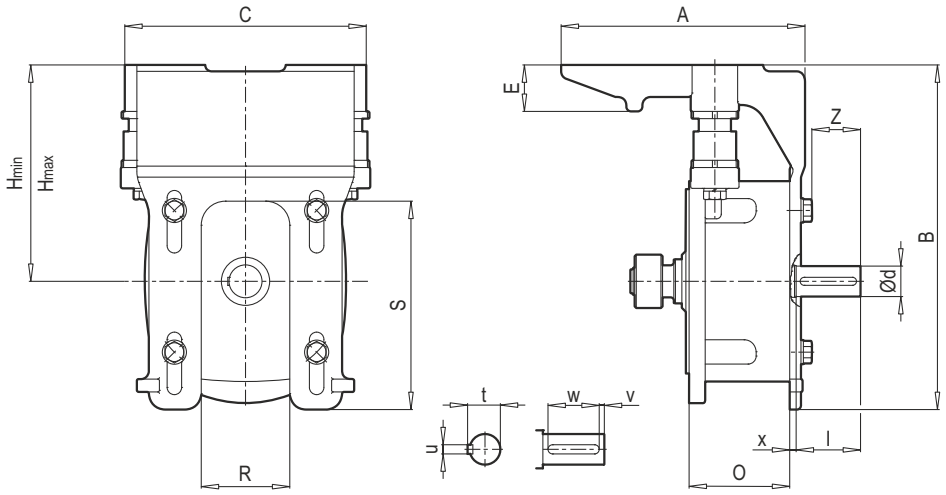
Özellikle aşırı çalışmalarda ve çok kötü çalışma koşullarında uygundur. Daldırmalı veya sulu çalışma ortamlarından etkilenmemektedir. Bu keçe tipi dış çevre koşullarından kesin koruma sağlar.

Seals are important for preventing oil leakage from gear unit and protection from environment. In hazardous environments and extreme operation conditions sealing must be considered. For that reason mechanical seals are aplicable for using at hazardous environment, submerged operation.

TR MOTOR PLATFORMU

EN MOTOR PLATFORMU INSTALLATION

Motor Platformu Ölçüleri
Motor Platform Dimensions



Tip Type	Bağlantı Boyutları ve Platform Ölçüleri Connection and Platform dimensions										Mil Ölçüleri Shaft size				Flanş Flange
	A	B	C	E	R	S	H min	H max	Z	O	d l	t u	v w	x	
MK I 63 M - 100 L	224	253	206	45	60	140	153	173	41	121.5	24 50	27 8	5 40	8	160 S
MK II 80 M - 112 M	238	320	252	50	66	145	199	224	48	115.5	28 60	31 8	5 50	9	250 S
MK III-A 90 S - 132 M	305	430	302	58	110	260	254	286	61	127	38 80	41 10	5 70	8	300 S
MK III-B 90 S - 132 M	305	430	302	58	110	260	254	286	91	172	42 110	45 12	10 90	8	Ø250
MK IV 112 M - 200L	478	530	402	75	130	315	315	355	116	254	65 140	69 18	15 110	8	Ø350
MK V 200 L - 250 M	664	690	572	105	382	369	465	515	119	247	65 140	69 18	15 110	12	Ø450

Motor Platform Montajı

Motor platform tasarımı PGR monoblok dişli ünitesi serilerinin tüm montaj pozisyonlarında kullanılabilir. 5 motor platformu boyutu tüm motor-redüktör kombinasyonlarını kapsar. Çok kademeli redüktörleri de karşılayan ayrı ayrı redüktörler için seçim tablolarından motor platformları bakılabilir.

* Her montaj pozisyonu için kullanılabilir.
* Optimum kayış gerilimi için kolayca yönlendirilebilen yükseklik ayarlaması yapılabilir.
* Sabitleme elemanlarıda dahil olmak üzere korozyona karşı dirençlidir.
* Hafif, vibrasyonu absorbe eden alümiyum yapı mevcuttur.
* Birçok motor boyutu için kullanım kolaylığı sağlar.
* Tabloya göre "i" oranının 1'e eşit olduğu durumlar için önerilir.
* Her yöne 90°' ye kadar eksen etrafında dönebilme özelliğine sahiptir.

Assembling of Motor Platform

Motor platform design could be used at all PGR monoblock gear unit series for all mounting positions. There are 5 motor platform designs. This platforms are provide using possibility with all motorgear unit series. Motor platform type, dimension and suitable belt type could be followed from table which is shown on page 45 - 46, on the other hand this table is valid for multi stage gear units.

* It could be used for all mounting positions.
* It could be adjusted for optimum belt-tension and height easily.
* It has high corrosion resistance however fixing elements have this property.
* Alumium structure provide vibration absorbing and light weight.
* It could be used with all motor type.
* We recommend, it is suitable for while 'i' ratio is equal to one, table is prepared according to this situation
* It could be adjusted to all direction up to 90°

TR MOTOR PLATFORMU

EN MOTOR PLATFORM INSTALLATION

Tip Type	PSH 2050 PSH 2063 PSH 2080	PSH 2100	PSH 2125				
Motor	W III	W II	W III				
63 M	MK I						
71 M	MK I						
80 M	MK I	MK II					
90 S 90 L	MK I	MK II	MK III - A				
100 L	MK I	MK II	MK III - A				
112 M		MK II	MK III - A				
132 S 132 M			MK III - A				

Seçim Örneği:

Çıkış gücü ve hızına göre gerekli olan dişli ünitesinin temel tipini ve gerekli çıkış gücü veya çıkış dönüş hızına dayanan çıkış gücü ve dişli oranını saptayınız.

Örnek :

0.75 kW , 17.3 d/dk i = 78.83
PSH 2080 - 80 M

Bu esas dişli ünitesi tipi için, motor platformu MK I tayin edildiğini tablodan (yukarıya bakınız) saptayınız.
Bu nedenle,tam tip tanımı **PSH 2080 - MK I - 80**'dir.

MK I için, tablodan (sayfa 48) kayış - kasnak ve kayış tipi ile ilgili daha fazla bilgi alabilirsiniz.

Esas boyutlar, tabloda gösterilmiştir.

Selection Example:

Motor platform assignment could be explained in one example hence, according to selecting gear unit reduction ratio, output speed and motor power is determined.

For instance ;

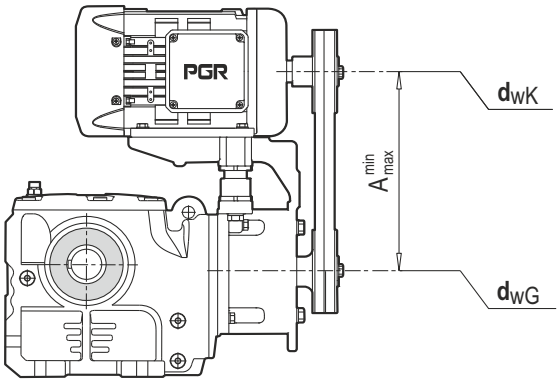
0.75 kW , 17.3 min^{-1}, i = 78.83
PSH 2080 - 80 M

From table (see above of this page) type of gear unit (column) and motor type (row) are intersected. Hence, from this motor bracket MK I dimension should be used.
Full designation is **PSH 2080 - MK I - 80.**

Following page shows more detail about belt pulley and type of belt (see page 48).
You can see dimension of belt length with motor platform assignment.

TR MOTOR PLATFORMU

EN MOTOR PLATFORM INSTALLATION



	Motor	Çıkış Output (kW)	Ayar aralığı Adjustment range Amin	Amax	Kayış uzunluğu Belt length	Mil merkezi uzaklığı Shaft centre distance A	Kayış sayısı Number of belts
MK I Kayış Tipi SPZ Belt type SPZ					**(dwg = 80) (i = 1) Lw**		
	63 M/4A	0.12	216	236	697	223	1
	63 M/4B	0.18	216	236	697	223	1
	71 M/4A	0.25	224	244	710	229	1
	71 M/4B	0.37	224	244	710	229	1
	80 M/4A	0.55	233	253	737	243	1
	80 M/4B	0.75	233	253	737	243	1
	90 S/4A	1.10	243	263	750	249	1
	90 L/4A	1.50	243	263	750	249	2
	100 L/4A	2.20	253	273	772	260	2
	100 L/4B	3.00	253	273	772	260	3
MK II Kayış Tipi XPZ Belt type XPZ					**(dwg = 112) (i = 1) Lw**		
	80 M/4A	0.55	279	304	930	289	1
	80 M/4B	0.75	279	304	930	289	1
	90 S/4A	1.10	289	314	950	299	1
	90 L/4A	1.50	289	314	950	299	1
	100 L/4A	2.20	299	324	980	314	1
	100 L/4B	3.00	299	324	980	314	2
	112 M/4B	4.00	311	336	1000	324	2
MK III Kayış Tipi SPZ Belt type SPZ					**(dwg = 160) (i = 1) Lw**		
	90 S/4A	1.10	344	376	1222	360	1
	90 L/4B	1.50	344	376	1222	360	1
	100 L/4A	2.20	354	386	1250	374	1
	100 L/4B	3.00	354	386	1250	374	1
	112 M/4B	4.00	366	398	1262	380	2
	132 S/4C	5.50	386	418	1312	405	2
	132 M/4B	7.50	386	418	1312	405	3
	132 M/4	9.20	386	418	1312	405	3
MK IV Kayış Tipi XPA Belt type XPA					**(dwg = 200) (i = 1) Lw**		
	112 M/4B	4.00	427	467	1500	436	1
	132 S/4C	5.50	447	487	1550	461	1
	132 M/4B	7.50	447	487	1550	461	2
	132 M/4	9.20	447	487	1550	461	2
	160 M/4B	11.0	475	515	1600	486	2
	160 L/4A	15.0	475	515	1600	486	3

Motorlu Seçim Tabloları

Selection Tables of Gearedmotors

PSH

PSH 2040 DG

PSH 2040 TMA

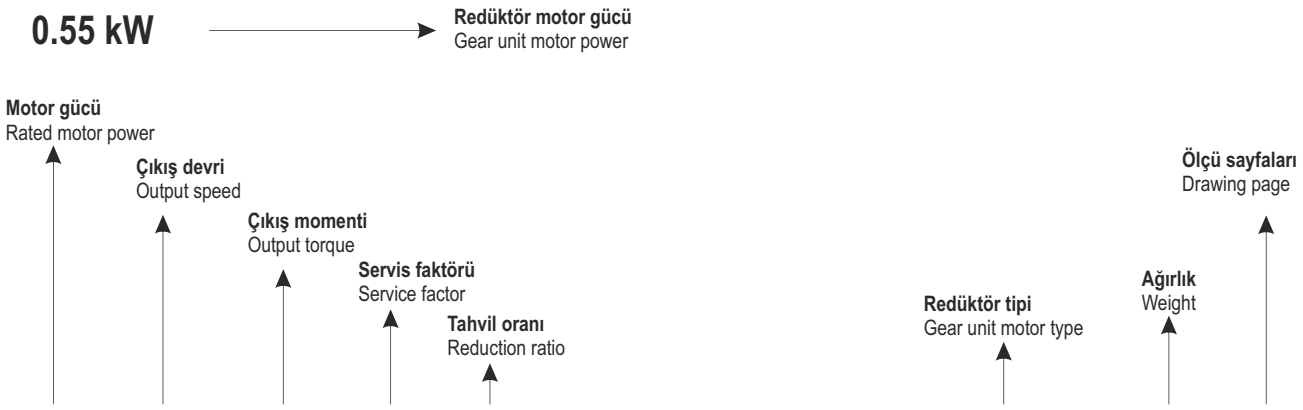
PSH 2050 DG ... 2125 DG
PSH 3050 DG ... 3125 DG

PSH 2050 TMA ... 2125 TMA
PSH 3050 TMA ... 3125 TMA

TR TEKNİK AÇIKLAMALAR

EN TECHNICAL EXPLANATIONS

Motorlu redüktör performans tablolarının yapısı.
Notify about performance tables for Geared motor.



P_1 [kW]	n_2 [Min^{-1}]	M_2 [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	$F_{R\,GR}$ [kN]	$F_{A\,GR}$ [kN]	Tip / Type	Kg	Sayfa Page mm
0.55	1.2	2293	1.3	1198.50	25.0	21.0	27.0	28.0			
	1.5	1811	1.7	928.25	27.0	21.0	27.0	28.0	**PSH 3125 - 80M/4A**	117	110-111
	1.8	1578	2.0	793.81	27.0	21.0	27.0	28.0			

Müsaade edilebilir radyal yükler Normal rulmanlarda F_R için listelenmiş değerlerde F_A = 0 (N) olarak hesaplanmıştır

Permissible radial force or load on output shaft while normal bearings are used. For this load F_A is assumed equal zero.
F_A = 0 (N)

Müsaade edilebilir eksenel yükler Güçlendirilmiş rulmanlarda F_A için listelenmiş değerlerde F_R = 0 (N) olarak hesaplanmıştır

Permissible axial force on output shaft while reinforced bearings are used. For this load F_R is assumed equal to zero. F_R = 0 (N)

Müsaade edilebilir eksenel yükler Normal rulmanlarda F_A için listelenmiş değerlerde F_R = 0 (N) olarak hesaplanmıştır

Permissible axial force or load on output shaft while normal bearings are used. For this load F_R is assumed equal zero.
F_R = 0 (N)

Müsaade edilebilir radyal yükler Güçlendirilmiş rulmanlarda F_R için listelenmiş değerlerde F_A = 0 (N) olarak hesaplanmıştır

Permissible radial force or load on output shaft while reinforced bearings are used. For this load F_A is assumed equal to zero. F_A = 0 (N)

P_1 [kW]	n_2 [Min^{-1}]	M_2 [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	$F_{R\ GR}$ [kN]	$F_{A\ GR}$ [kN]	Tip / Type	Kg	Sayfa Page mm
0.12	0.9	732	2.2	1506.84	16.0	12.0	16.0	16.0	**PSH 3100 - 63M/4A**	65	102-103
	1.1	490	3.2	1173.93	16.0	12.0	16.0	16.0			
	1.1	490	1.6	1199.07	9.0	9.0	13.0	12.0	**PSH 3080 - 63M/4A**	37	94-95
	1.4	391	2.0	955.78	9.0	9.0	13.0	12.0			
	1.6	336	2.3	805.70	10.0	9.0	13.0	12.0			
	1.9	301	2.6	705.97	10.0	9.0	13.0	12.0			
	1.3	424	1.8	656.63★	9.0	9.0	13.0	12.0	**PSH 2080 - 63M/6**	32	90-91
	2.0	280	2.5	656.63★	10.0	9.0	13.0	12.0	**PSH 2080 - 63M/4A**	32	90-91
	4.8	164	4.3	276.81★	10.0	9.0	13.0	12.0			
	1.0	484#	0.8	1343.24★	5.0	8.0	9.0	10.0	**PSH 3063 - 63M/4A**	27	86-87
	1.2	452#	0.8	1140.10★	5.0	8.0	9.0	10.0			
	1.4	390	0.9	626.57★	6.0	8.0	10.0	10.0	**PSH 2063 - 63M/6**	22	82-83
	1.6	329	1.1	529.13★	7.0	8.0	10.0	10.0			
	1.9	295	1.2	464.67★	7.0	8.0	10.0	10.0			
	2.1	262	1.4	626.57★	7.0	8.0	10.0	10.0	**PSH 2063 - 63M/4A**	22	82-83
	2.5	226	1.6	529.13★	7.0	8.0	11.0	10.0			
	2.8	198	1.8	464.67★	8.0	8.0	11.0	10.0			
	5.0	154	2.2	264.14★	8.0	8.0	11.0	10.0			
	5.9	130	2.8	223.06★	8.0	8.0	11.0	10.0			
	6.7	116	3.1	195.89★	8.0	8.0	11.0	10.0			
	7.2	86	4.2	183.60	8.0	8.0	11.0	10.0			
	8.1	78	4.0	162.27	8.0	8.0	11.0	10.0			
	1.0	247#	0.8	1330.71	4.0	8.0	6.0	8.0	**PSH 3050 - 63M/4A**	23	78-79
	1.3	239#	0.8	991.88	4.0	8.0	6.0	8.0			
	1.5	242#	0.8	868.89	4.0	8.0	6.0	8.0			
	1.7	238#	0.8	755.93	4.0	8.0	6.0	8.0			
	2.0	234#	0.8	663.52	4.0	8.0	6.0	8.0			
	2.2	239#	0.8	586.50	4.0	8.0	6.0	8.0			
	1.6	224#	0.8	524.57	4.0	8.0	6.0	8.0	**PSH 2050 - 63M/6**	18	74-75
	2.0	235#	0.8	439.88	4.0	8.0	6.0	8.0			
	2.2	227#	0.8	385.33	4.0	8.0	6.0	8.0			
	2.5	230#	0.8	524.57	4.0	8.0	6.0	8.0	**PSH 2050 - 63M/4A**	18	74-75
	3.0	188	1.0	439.88	5.0	8.0	6.0	8.0			
	3.4	168	1.1	385.33	5.0	8.0	6.0	8.0			
	5.7	135	1.4	231.43	5.0	8.0	6.0	8.0			
	6.8	115	1.6	194.06	5.0	8.0	6.0	8.0			
	7.7	101	1.8	170.00	6.0	8.0	6.0	8.0			
	8.9	69	2.5	147.90	6.0	8.0	6.0	8.0			
	10.1	62	2.7	129.82	6.0	8.0	6.0	8.0			
	11.5	56	3.0	114.75	6.0	8.0	6.0	8.0			
	14.2	46	3.7	92.73	6.0	8.0	6.0	8.0			

 # Max. çıkış momenti f_B = 0.8
Max. Output Torque With f_B = 0.8

★ **İşareti belirtilen tahvil oranlarının B14 veya B5 flanşlı gövde bağlantılılar için geçerli olduğunu gösterir.**
★ Sign shows that this reduction ratio is valid for geared motor with B14 and B5 flange

P_1 [kW]	n_2 [Min^{-1}]	M_2 [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	$F_{R\ GR}$ [kN]	$F_{A\ GR}$ [kN]	Tip / Type	Kg	Sayfa Page mm
0.12	4.3	122 #	0.8	304.20	3.0	4.0	-	-			
	5.5	103	1.0	237.90	3.0	4.0	-	-			
	10.2	76	1.4	128.70	4.0	4.0	-	-			
	11.4	53	1.8	115.23	4.0	4.0	-	-			
	13.2	47	2.0	99.45	4.0	4.0	-	-			
	15.2	41	2.1	86.86	4.0	4.0	-	-			
	17.2	37	2.3	76.38	4.0	4.0	-	-			
	19.5	33	2.5	67.50	4.0	4.0	-	-			
	22.0	41	2.5	59.80	4.0	4.0	-	-			
	25.3	26	3.1	52.00	4.0	4.0	-	-			
	28.2	31	3.1	46.77	4.0	4.0	-	-			
	29.4	22	3.6	44.78	4.0	4.0	-	-			
	31.3	25	3.2	42.08	4.0	4.0	-	-			
	35.8	23	3.5	36.75	4.0	4.0	-	-	**PSH 2040 - 63M/4A**	10	70-71
	40.8	20	3.9	32.31	4.0	4.0	-	-			
	46.1	18	4.1	28.56	4.0	4.0	-	-			
	59.9	14	5.2	22.00	4.0	4.0	-	-			
	67.4	13	5.8	19.55	4.0	4.0	-	-			
	77.1	12	6.5	17.08	4.0	4.0	-	-			
	87.8	10	7.0	15.01	4.0	4.0	-	-			
	99.3	9	7.7	13.27	4.0	4.0	-	-			
	128.9	7	9.2	10.22	4.0	4.0	-	-			
	149.7	6	10.2	8.80	4.0	4.0	-	-			
	175.4	5	10	7.51	4.0	4.0	-	-			
	198.7	5	11	6.63	4.0	4.0	-	-			
	257.8	4	12	5.11	4.0	4.0	-	-			
	299.4	3	14	4.40	4.0	4.0	-	-			
0.18	1.1	720	2.2	1173.93	16.0	12.0	16.0	16.0			
	2.0	430	3.7	660.00	16.0	12.0	16.0	16.0			
	2.6	345	4.6	519.44	16.0	12.0	16.0	16.0	**PSH 3100 - 63M/4B**	65	102-103
	2.9	317	5.0	468.59	16.0	12.0	16.0	16.0			
	3.7	257	5.9	365.06	16.0	12.0	16.0	16.0			
	4.5	214	7.1	298.69	16.0	12.0	16.0	16.0			
	1.4	604	2.4	645.00	16.0	12.0	16.0	16.0	**PSH 2100 - 71M/6A**	58	98-99
	1.1	720	1.1	1199.07	7.0	9.0	12.0	12.0			
	1.4	574	1.3	955.78	8.0	9.0	13.0	12.0	**PSH 3080 - 63M/4B**	37	94-95
	1.7	494	1.6	805.70	9.0	9.0	13.0	12.0			
	1.9	442	1.7	705.97	9.0	9.0	13.0	12.0			
	1.4	589	1.3	656.63★	8.0	9.0	13.0	12.0	**PSH 2080 - 71M/6A**	33	90-91
	2.0	411	1.7	656.63★	9.0	9.0	13.0	12.0			
	4.9	240	3.0	276.81★	10.0	9.0	13.0	12.0	**PSH 2080 - 63M/4B**	32	90-91
	5.7	165	4.3	234.60	10.0	9.0	13.0	12.0			
	7.2	136	4.9	187.00	10.0	9.0	13.0	12.0			
	1.7	475	0.8	529.13★	5.0	8.0	9.0	10.0	**PSH 2063 - 71M/6A**	23	82-83
	1.9	426	0.8	464.67★	6.0	8.0	10.0	10.0			
	2.1	384	0.9	626.57★	6.0	8.0	10.0	10.0			
	2.5	331	1.1	529.13★	7.0	8.0	10.0	10.0			
	2.9	291	1.2	464.67★	7.0	8.0	10.0	10.0			
	5.1	226	1.5	264.14★	7.0	8.0	11.0	10.0			
	6.0	191	1.9	223.06★	8.0	8.0	11.0	10.0			
	6.9	170	2.1	195.89★	8.0	8.0	11.0	10.0	**PSH 2063 - 63M/4B**	22	82-83
	7.3	127	2.8	183.60	8.0	8.0	11.0	10.0			
	8.3	114	2.7	162.27	8.0	8.0	11.0	10.0			
	9.3	103	2.9	144.50	8.0	8.0	11.0	10.0			
	11.4	88	3.4	118.23	8.0	8.0	11.0	10.0			
	12.9	78	3.8	104.13	8.0	8.0	11.0	10.0			

 # Max. çıkış momenti f_B = 0.8
Max. Output Torque With f_B = 0.8

★ **İşareti belirtilen tahvil oranlarının B14 veya B5 flanşlı gövde bağlantılılar için geçerli olduğunu gösterir.**

★ Sign shows that this reduction ratio is valid for geared motor with B14 and B5 flange

P_1 [kW]	n_2 [Min^{-1}]	M_2 [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	$F_{R\ GR}$ [kN]	$F_{A\ GR}$ [kN]	Tip / Type	Kg	Sayfa Page mm
0.18	5.8	198	0.9	231.43	5.0	8.0	6.0	8.0	PSH 2050 - 63M/4B	18	74-75
	6.9	169	1.1	194.06	5.0	8.0	6.0	8.0			
	7.9	148	1.3	170.00	5.0	8.0	6.0	8.0			
	9.1	102	1.7	147.90	6.0	8.0	6.0	8.0			
	10.4	91	1.8	129.82	6.0	8.0	6.0	8.0			
	11.7	82	2.0	114.75	6.0	8.0	6.0	8.0			
	14.5	68	2.5	92.73	6.0	8.0	6.0	8.0			
	16.7	60	2.8	80.75	6.0	8.0	6.0	8.0			
	20.6	60	2.8	65.25	6.0	8.0	6.0	8.0			
	23.5	53	3.2	57.27	6.0	8.0	6.0	8.0			
	26.6	47	3.3	50.63	6.0	8.0	6.0	8.0			
	11.7	78	1.2	115.23	4.0	4.0	-	-	PSH 2040 - 63M/4B	11	70-71
	13.5	69	1.3	99.45	4.0	4.0	-	-			
	15.5	60	1.5	86.86	4.0	4.0	-	-			
	17.6	54	1.6	76.38	4.0	4.0	-	-			
	19.9	48	1.7	67.50	4.0	4.0	-	-			
	22.5	60	1.7	59.80	4.0	4.0	-	-			
	25.9	38	2.1	52.00	4.0	4.0	-	-			
	28.8	47	2.1	46.77	4.0	4.0	-	-			
	30.0	34	2.4	44.78	4.0	4.0	-	-			
	32.0	38	2.3	42.08	4.0	4.0	-	-			
	36.6	33	2.4	36.75	4.0	4.0	-	-			
	41.6	29	2.7	32.31	4.0	4.0	-	-			
	47.1	26	2.8	28.56	4.0	4.0	-	-			
	61.2	20	3.5	22.00	4.0	4.0	-	-			
	68.8	19	3.9	19.55	4.0	4.0	-	-			
	78.8	17	4.4	17.08	4.0	4.0	-	-			
	89.6	15	4.8	15.01	4.0	4.0	-	-			
	101.4	14	5.3	13.27	4.0	4.0	-	-			
	131.7	10	6.3	10.22	4.0	4.0	-	-			
	152.9	9	7.0	8.80	4.0	4.0	-	-			
	179.2	8	6.8	7.51	4.0	4.0	-	-			
	202.9	7	7.3	6.63	4.0	4.0	-	-			
	263.3	6	8.4	5.11	4.0	4.0	-	-			
	305.8	5	9.3	4.40	4.0	3.0	-	-			
0.25	0.9	1363	2.3	1475.08	27.0	21.0	27.0	28.0	PSH 3125 - 71M/4A	114	110-111
	1.2	1050	2.9	1198.50	27.0	21.0	27.0	28.0			
	0.9	1351	1.2	1506.84	14.0	12.0	16.0	16.0	PSH 3100 - 71M/4A	66	102-103
	1.2	968	1.6	1173.93	16.0	12.0	16.0	16.0			
	2.1	578	2.8	660.00	16.0	12.0	16.0	16.0			
	1.4	829	1.8	645.00	16.0	12.0	16.0	16.0	PSH 2100 - 71M/6B	59	98-99
	2.2	565	2.5	645.00	16.0	12.0	16.0	16.0	PSH 2100 - 71M/4A	58	98-99
	1.2	968	0.8	1199.07	1.0	9.0	10.0	12.0	PSH 3080 - 71M/4A	38	94-95
	1.5	772	1.0	955.78	5.0	9.0	11.0	12.0			
	1.7	664	1.2	805.70	7.0	9.0	12.0	12.0			
	2.0	594	1.3	705.97	8.0	9.0	13.0	12.0			
	1.4	810	0.9	656.63★	5.0	9.0	11.0	12.0	PSH 2080 - 71M/6B	34	90-91
	1.7	655	1.1	520.20★	8.0	9.0	13.0	12.0			
	2.1	553	1.3	656.63★	8.0	9.0	13.0	12.0	PSH 2080 - 71M/4A	33	90-91
	5.0	323	2.2	276.81★	10.0	9.0	13.0	12.0			
	5.9	222	3.2	234.60	10.0	9.0	13.0	12.0			
	7.4	183	3.7	187.00	10.0	9.0	13.0	12.0			
	8.8	157	4.3	157.64	10.0	9.0	13.0	12.0			

★ **İşareti belirtilen tahvil oranlarının B14 veya B5 flanşlı gövde bağlantılılar için geçerli olduğunu gösterir.**

★ Sign shows that this reduction ratio is valid for geared motor with B14 and B5 flange

P_1 [kW]	n_2 [Min^{-1}]	M_2 [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	$F_{R\ GR}$ [kN]	$F_{A\ GR}$ [kN]	Tip / Type	Kg	Sayfa Page mm
0.25	2.6	445	0.8	529.13★	5.0	8.0	9.0	10.0			
	3.0	391	0.9	464.67★	6.0	8.0	10.0	10.0			
	5.3	304	1.2	264.14★	7.0	8.0	10.0	10.0			
	6.2	257	1.4	223.06★	7.0	8.0	11.0	10.0			
	7.1	229	1.6	195.89	7.0	8.0	11.0	10.0			
	7.6	170	2.1	183.60	8.0	8.0	11.0	10.0			
	8.6	153	2.0	162.27	8.0	8.0	11.0	10.0			
	9.6	139	2.2	144.50	8.0	8.0	11.0	10.0	**PSH 2063 - 71M/4A**	23	82-83
	11.8	118	2.5	118.23	8.0	8.0	11.0	10.0			
	13.3	106	2.8	104.13	8.0	8.0	11.0	10.0			
	15.1	95	3.1	92.19	8.0	8.0	11.0	10.0			
	18.0	96	3.2	77.40	8.0	8.0	11.0	10.0			
	20.3	86	3.4	68.41	8.0	8.0	11.0	10.0			
	22.8	76	3.7	60.92	8.0	8.0	11.0	10.0			
	7.6	213	0.9	182.08	5.0	8.0	6.0	8.0	**PSH 3050 - 71M/4A**	24	78-79
	8.2	199	0.9	170.00	5.0	8.0	6.0	8.0			
	9.4	137	1.3	147.90	5.0	8.0	6.0	8.0			
	10.7	123	1.4	129.82	5.0	8.0	6.0	8.0			
	12.1	110	1.5	114.75	6.0	8.0	6.0	8.0			
	15.0	91	1.9	92.73	6.0	8.0	6.0	8.0			
	17.2	80	2.1	80.75	6.0	8.0	6.0	8.0			
	21.3	81	2.1	65.25	6.0	8.0	6.0	8.0			
	24.3	71	2.4	57.27	6.0	8.0	6.0	8.0	**PSH 2050 - 71M/4A**	19	74-75
	27.5	63	2.4	50.63	6.0	8.0	6.0	8.0			
	34.0	52	3.0	40.91	6.0	8.0	6.0	8.0			
	39.0	46	3.4	35.63	6.0	8.0	6.0	8.0			
	44.9	43	3.6	30.93	6.0	8.0	6.0	8.0			
	51.2	38	4.0	27.15	5.0	8.0	6.0	8.0			
	57.9	33	4.6	24.00	5.0	8.0	6.0	8.0			
	14.0	92	1.0	99.45	3.0	4.0	-	-			
	16.0	81	1.1	86.86	4.0	4.0	-	-			
	18.2	72	1.2	76.38	4.0	4.0	-	-			
	20.6	65	1.3	67.50	4.0	4.0	-	-			
	23.2	80	1.2	59.80	4.0	4.0	-	-			
	26.7	52	1.6	52.00	4.0	4.0	-	-			
	29.7	63	1.6	46.77	4.0	4.0	-	-			
	31.0	45	1.8	44.78	4.0	4.0	-	-			
	33.0	51	1.7	42.08	4.0	4.0	-	-			
	37.8	45	1.8	36.75	4.0	4.0	-	-			
	43.0	40	2.0	32.31	4.0	4.0	-	-			
	48.7	35	2.1	28.56	4.0	4.0	-	-	**PSH 2040- 71M/4A**	12	70-71
	63.2	28	2.6	22.00	4.0	4.0	-	-			
	71.1	27	2.9	19.55	4.0	4.0	-	-			
	81.4	23	3.3	17.08	4.0	4.0	-	-			
	92.6	21	3.5	15.01	4.0	4.0	-	-			
	104.7	18	4.0	13.27	4.0	4.0	-	-			
	136.0	14	4.6	10.22	4.0	4.0	-	-			
	158.0	12	5.2	8.80	4.0	4.0	-	-			
	185.1	11	5.0	7.51	4.0	4.0	-	-			
	209.7	9	5.4	6.63	4.0	4.0	-	-			
	272.0	8	6.2	5.11	4.0	3.0	-	-			
	315.9	6	6.9	4.40	4.0	3.0	-	-			

★ **İşareti belirtilen tahvil oranlarının B14 veya B5 flanşlı gövde bağlantılılar için geçerli olduğunu gösterir.**

★ Sign shows that this reduction ratio is valid for geared motor with B14 and B5 flange

P_1 [kW]	n_2 [Min^{-1}]	M_2 [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	$F_{R\ GR}$ [kN]	$F_{A\ GR}$ [kN]	Tip / Type	Kg	Sayfa Page mm
0.37	1.1	1577	2.0	1198.50	27.0	21.0	27.0	28.0	**PSH 3125 - 71M/4B**	115	110-111
	1.2 2.1	1454 869	1.1 1.8	1173.93 660.00	13.0 16.0	12.0 12.0	16.0 16.0	16.0 16.0	**PSH 3100 - 71M/4B**	67	102-103
	1.4 1.8	1214 979	1.2 1.5	645.00 510.00	14.0 16.0	12.0 12.0	16.0 16.0	16.0 16.0	**PSH 2100 - 80M/6A**	61	98-99
	2.1 5.7	849 362	1.7 3.9	645.00 241.67	16.0 16.0	12.0 12.0	16.0 16.0	16.0 16.0	**PSH 2100 - 71M/4B**	59	98-99
	1.8	959	0.7	520.20★	2.0	9.0	10.0	12.0	**PSH 2080 - 80M/6A**	36	90-91
	2.1 2.6 4.9 5.8 7.3 8.7 9.9 11.1 12.9 14.5 17.4 20.6	830 671 486 333 275 236 214 195 170 153 153 130	0.9 1.1 1.5 2.1 2.4 2.8 3.0 3.2 3.5 3.7 4.3 4.8	656.63★ 520.20★ 276.81★ 234.60 187.00 157.64 138.13 123.58 106.25 94.15 78.83 66.45	5.0 7.0 9.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0	9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0	11.0 12.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0	12.0 12.0 12.0 12.0 12.0 12.0 12.0 12.0 12.0 12.0 12.0 12.0	**PSH 2080 - 71M/4B**	34	90-91
	6.1 7.0 7.5 8.4 9.5 11.6 13.1 14.9 17.7 20.0 22.5 27.5 31.2 35.2 39.2	386 344 256 230 209 177 159 143 144 129 115 96 85 76 73	0.9 1.0 1.4 1.3 1.4 1.7 1.9 2.1 2.1 2.3 2.4 2.7 2.9 3.2 3.6	223.06★ 195.89★ 183.60 162.27 144.50 118.23 104.13 92.19 77.40 68.41 60.92 49.84 43.90 38.87 34.94	6.0 7.0 7.0 7.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0	8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0	10.0 10.0 11.0 11.0 11.0 11.0 11.0 11.0 11.0 11.0 11.0 11.0 11.0 11.0 11.0	10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0	**PSH 2063 - 71M/4B**	24	82-83
	11.9 14.8 17.0 21.0 23.9 27.0 33.5 38.4 44.3 50.4 57.0	166 136 121 121 106 95 78 69 65 57 51	1.0 1.2 1.4 1.4 1.6 1.6 2.0 2.2 2.4 2.7 3.1	114.75 92.73 80.75 65.25 57.27 50.63 40.91 35.63 30.93 27.15 24.00	5.0 5.0 5.0 5.0 6.0 6.0 6.0 6.0 5.0 5.0 5.0	8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 7.0	6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0	8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0	**PSH 2050 - 71M/4B**	20	74-75

★ **İşareti belirtilen tahvil oranlarının B14 veya B5 flanşlı gövde bağlantılılar için geçerli olduğunu gösterir.**

★ Sign shows that this reduction ratio is valid for geared motor with B14 and B5 flange

P_1 [kW]	n_2 [Min^{-1}]	M_2 [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	$F_{R\ GR}$ [kN]	$F_{A\ GR}$ [kN]	Tip / Type	Kg	Sayfa Page mm
0.37	22.9	120	0.8	59.80	3.0	4.0	-	-			
	26.3	78	1.0	52.00	4.0	4.0	-	-			
	29.3	95	1.0	46.77	3.0	4.0	-	-			
	30.6	68	1.2	44.78	4.0	4.0	-	-			
	32.5	77	1.1	42.08	4.0	4.0	-	-			
	37.3	68	1.2	36.75	4.0	4.0	-	-			
	42.4	61	1.3	32.31	4.0	4.0	-	-			
	47.9	55	1.4	28.56	4.0	4.0	-	-			
	62.2	42	1.7	22.00	4.0	4.0	-	-			
	70.0	41	2.0	19.55	4.0	4.0	-	-	**PSH 2040 - 71M/4B**	13	70-71
	80.2	36	2.2	17.08	4.0	4.0	-	-			
	91.2	32	2.4	15.01	4.0	4.0	-	-			
	103.2	28	2.6	13.27	4.0	4.0	-	-			
	134.0	22	3.1	10.22	4.0	4.0	-	-			
	155.6	19	3.4	8.80	4.0	4.0	-	-			
	182.3	16	3.5	7.51	4.0	4.0	-	-			
	206.5	15	3.7	6.63	4.0	4.0	-	-			
	267.9	11	4.1	5.11	4.0	3.0	-	-			
	311.2	10	4.6	4.40	4.0	3.0	-	-			
0.55	1.2	2293	1.3	1198.50	25.0	21.0	27.0	28.0			
	1.5	1811	1.7	928.25	27.0	21.0	27.0	28.0			
	1.8	1578	2.0	793.81	27.0	21.0	27.0	28.0			
	2.0	1762	1.6	690.49	27.0	21.0	27.0	28.0			
	2.3	1549	1.7	607.31	27.0	21.0	27.0	28.0			
	2.6	1416	2.2	546.92	27.0	21.0	27.0	28.0	**PSH 3125 - 80M/4A**	117	110-111
	3.2	1150	2.6	444.38	27.0	21.0	27.0	28.0			
	3.7	998	2.6	380.02	27.0	21.0	27.0	28.0			
	4.3	860	2.8	323.00	27.0	21.0	27.0	28.0			
	5.2	730	3.9	270.16	27.0	21.0	27.0	28.0			
	2.1	1263	1.3	660.00	14.0	12.0	16.0	16.0	**PSH 3100 - 80M/4A**	69	102-103
	1.4	1804	0.8	645.00	7.0	12.0	16.0	16.0	**PSH 2100 - 80M/6B**	62	98-99
	1.8	1456	1.0	510.00	13.0	12.0	16.0	16.0			
	2.2	1234	1.2	645.00	14.0	12.0	16.0	16.0			
	2.7	995	1.4	510.00	16.0	12.0	16.0	16.0			
	5.8	526	2.7	241.67	16.0	12.0	16.0	16.0	**PSH 2100 - 80M/4A**	61	98-99
	7.6	420	3.3	183.33	16.0	12.0	16.0	16.0			
	8.5	385	3.5	165.38	16.0	12.0	16.0	16.0			
	10.9	314	3.9	128.85	16.0	12.0	16.0	16.0			
	3.9	696	1.0	234.60	7.0	9.0	12.0	12.0	**PSH 2080 - 80M/6B**	37	90-91
	3.5	771	0.9	402.90★	6.0	9.0	11.0	12.0			
	6.0	484	1.5	234.60	9.0	9.0	13.0	12.0			
	7.5	400	1.7	187.00	9.0	9.0	13.0	12.0			
	8.9	343	2.0	157.64	10.0	9.0	13.0	12.0			
	10.1	311	2.1	138.13	10.0	9.0	13.0	12.0			
	11.3	283	2.2	123.58	10.0	9.0	13.0	12.0			
	13.2	247	2.4	106.25	10.0	9.0	13.0	12.0	**PSH 2080 - 80M/4A**	36	90-91
	14.9	223	2.5	94.15	10.0	9.0	13.0	12.0			
	17.8	222	3.0	78.83	10.0	9.0	13.0	12.0			
	21.1	189	3.3	66.45	10.0	9.0	13.0	12.0			
	24.0	168	3.6	58.23	10.0	9.0	13.0	12.0			
	26.9	151	3.8	52.10	10.0	9.0	13.0	12.0			
	31.3	131	4.2	44.79	10.0	9.0	13.0	12.0			

★ **İşareti belirtilen tahvil oranlarının B14 veya B5 flanşlı gövde bağlantılılar için geçerli olduğunu gösterir.**

★ Sign shows that this reduction ratio is valid for geared motor with B14 and B5 flange

P_1 [kW]	n_2 [Min^{-1}]	M_2 [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	$F_{R\ GR}$ [kN]	$F_{A\ GR}$ [kN]	Tip / Type	Kg	Sayfa Page mm
0.55	7.6	372	1.0	183.60	6.0	8.0	10.0	10.0	PSH 2063 - 80M/4A	26	82-83
	8.6	335	0.9	162.27	7.0	8.0	10.0	10.0			
	9.7	304	1.0	144.50	7.0	8.0	10.0	10.0			
	11.8	257	1.1	118.23	7.0	8.0	11.0	10.0			
	13.4	230	1.3	104.13	7.0	8.0	11.0	10.0			
	15.2	208	1.4	92.19	8.0	8.0	11.0	10.0			
	18.1	209	1.5	77.40	8.0	8.0	11.0	10.0			
	20.5	187	1.6	68.41	8.0	8.0	11.0	10.0			
	23.0	167	1.7	60.92	8.0	8.0	11.0	10.0			
	28.1	140	1.9	49.84	8.0	8.0	11.0	10.0			
	31.9	124	2.0	43.90	8.0	8.0	11.0	10.0			
	36.0	111	2.2	38.87	8.0	8.0	11.0	10.0			
	40.1	106	2.5	34.94	7.0	8.0	11.0	10.0			
	49.0	88	2.8	28.59	7.0	8.0	11.0	10.0			
	55.6	78	3.1	25.18	7.0	8.0	11.0	10.0			
	62.8	69	3.5	22.29	6.0	8.0	11.0	10.0			
	73.6	59	3.6	19.01	6.0	8.0	11.0	10.0			
	21.5	176	1.0	65.25	5.0	8.0	6.0	8.0	PSH 2050- 80M/4A	22	74-75
	24.4	155	1.1	57.27	5.0	8.0	6.0	8.0			
	27.7	139	1.1	50.63	5.0	8.0	6.0	8.0			
	34.2	114	1.4	40.91	6.0	8.0	6.0	8.0			
	39.3	100	1.5	35.63	5.0	8.0	6.0	8.0			
	45.3	94	1.6	30.93	5.0	7.0	6.0	8.0			
	51.6	84	1.9	27.15	5.0	7.0	6.0	8.0			
	58.3	74	2.1	24.00	5.0	7.0	6.0	8.0			
	72.2	60	2.4	19.39	5.0	6.0	6.0	8.0			
	82.9	52	2.3	16.89	4.0	6.0	6.0	8.0			
	94.8	46	2.5	14.77	4.0	6.0	6.0	8.0			
	106.5	43	2.8	13.15	4.0	5.0	6.0	8.0			
	120.4	38	3.0	11.63	4.0	5.0	6.0	8.0			
	149.1	31	3.5	9.39	4.0	4.0	6.0	8.0			
	171.1	27	3.8	8.18	3.0	4.0	6.0	8.0			
	195.8	24	4.0	7.15	3.0	4.0	6.0	8.0			
	43.3	87	0.9	32.31	3.0	4.0	-	-	PSH 2040 - 80M/4A	15	70-71
	49.0	78	1.0	28.56	4.0	4.0	-	-			
	63.6	61	1.2	22.00	4.0	4.0	-	-			
	71.6	59	1.3	19.55	4.0	4.0	-	-			
	82.0	52	1.5	17.08	4.0	4.0	-	-			
	93.3	46	1.6	15.01	4.0	4.0	-	-			
	105.5	40	1.8	13.27	4.0	4.0	-	-			
	137.0	31	2.1	10.22	4.0	4.0	-	-			
	159.1	27	2.3	8.80	4.0	4.0	-	-			
	186.4	24	2.4	7.51	4.0	3.0	-	-			
	211.2	21	2.4	6.63	4.0	3.0	-	-			
	274.0	16	2.8	5.11	4.0	3.0	-	-			
	318.2	14	3.2	4.40	3.0	3.0	-	-			

P_1 [kW]	n_2 [Min^{-1}]	M_2 [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	$F_{R\ GR}$ [kN]	$F_{A\ GR}$ [kN]	Tip / Type	Kg	Sayfa Page mm
0.75	1.2	3127	1.0	1198.50	20.0	21.0	27.0	28.0	PSH 3125 - 80M/4B	118	110-111
	1.5	2469	1.3	928.25	25.0	21.0	27.0	28.0			
	1.8	2152	1.4	793.81	26.0	21.0	27.0	28.0			
	2.0	2402	1.2	690.49	25.0	21.0	27.0	28.0			
	2.3	2113	1.3	607.31	27.0	21.0	27.0	28.0			
	2.6	1931	1.6	546.92	27.0	21.0	27.0	28.0			
	3.2	1569	1.9	444.38	27.0	21.0	27.0	28.0			
	3.7	1361	1.9	380.02	27.0	21.0	27.0	28.0			
	4.3	1173	2.0	323.00	27.0	21.0	27.0	28.0			
	5.2	995	2.8	270.16	27.0	21.0	27.0	28.0			
	5.9	884	3.1	236.72	27.0	21.0	27.0	28.0			
	7.5	710	3.1	187.50	27.0	21.0	27.0	28.0			
	1.3	2747	1.0	695.60	25.0	21.0	27.0	28.0	PSH 2125 - 90S/6A	104	106-107
	1.9	2034	1.4	495.64	27.0	21.0	27.0	28.0			
	2.1	1722	0.9	660.00	9.0	12.0	16.0	16.0	PSH 3100 - 80M/4B	70	102-103
	2.2	1683	0.8	645.00	9.0	12.0	16.0	16.0	PSH 2100 - 80M/4B	62	98-99
	2.7	1357	1.0	510.00	13.0	12.0	16.0	16.0			
	5.8	717	2.0	241.67	16.0	12.0	16.0	16.0			
	7.6	572	2.4	183.33	16.0	12.0	16.0	16.0			
	8.5	525	2.5	165.38	16.0	12.0	16.0	16.0			
	10.9	428	2.9	128.85	16.0	12.0	16.0	16.0			
	14.9	366	2.8	94.25	14.0	12.0	16.0	16.0			
	19.6	285	3.1	71.50	13.0	12.0	16.0	16.0			
	6.0	660	1.1	234.60	7.0	9.0	12.0	12.0	PSH 2080 - 80M/4B	37	90-91
	7.5	545	1.2	187.00	8.0	9.0	13.0	12.0			
	8.9	468	1.4	157.64	9.0	9.0	13.0	12.0			
	10.1	424	1.5	138.13	9.0	9.0	13.0	12.0			
	11.3	386	1.6	123.58	10.0	9.0	13.0	12.0			
	13.2	337	1.8	106.25	10.0	9.0	13.0	12.0			
	14.9	303	1.8	94.15	10.0	9.0	13.0	12.0			
	17.8	302	2.2	78.83	10.0	9.0	13.0	12.0			
	21.1	258	2.4	66.45	10.0	9.0	13.0	12.0			
	24.0	229	2.6	58.23	10.0	9.0	13.0	12.0			
	26.9	205	2.8	52.10	10.0	9.0	13.0	12.0			
	31.3	179	3.1	44.79	10.0	9.0	13.0	12.0			
	36.9	161	2.8	37.89	9.0	9.0	13.0	12.0			
	43.8	137	3.0	31.94	9.0	9.0	13.0	12.0			
	50.0	122	3.1	27.99	8.0	9.0	13.0	12.0			
	55.9	109	3.3	25.04	8.0	9.0	13.0	12.0			
	11.8	351	0.8	118.23	7.0	8.0	10.0	10.0	PSH 2063 - 80M/4B	27	82-83
	13.4	314	0.9	104.13	7.0	8.0	10.0	10.0			
	15.2	283	1.0	92.19	7.0	8.0	10.0	10.0			
	18.1	285	1.1	77.40	7.0	8.0	10.0	10.0			
	20.5	255	1.2	68.41	7.0	8.0	11.0	10.0			
	23.0	228	1.2	60.92	7.0	8.0	11.0	10.0			
	28.1	191	1.4	49.84	8.0	8.0	11.0	10.0			
	31.9	168	1.5	43.90	8.0	8.0	11.0	10.0			
	36.0	151	1.6	38.87	7.0	8.0	11.0	10.0			
	40.1	145	1.8	34.94	7.0	8.0	11.0	10.0			
	49.0	120	2.0	28.59	7.0	8.0	11.0	10.0			
	55.6	107	2.3	25.18	6.0	8.0	11.0	10.0			
	62.8	95	2.6	22.29	6.0	8.0	11.0	10.0			
	73.6	82	2.6	19.01	6.0	8.0	11.0	10.0			
	89.9	69	2.7	15.58	6.0	8.0	11.0	10.0			
	109.8	57	2.9	12.75	5.0	8.0	11.0	10.0			
	124.7	50	3.1	11.23	5.0	8.0	11.0	10.0			
	140.8	45	3.3	9.94	5.0	8.0	11.0	10.0			
	165.1	39	3.4	8.48	5.0	7.0	10.0	10.0			

P_1 [kW]	n_2 [Min^{-1}]	M_2 [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	$F_{R\ GR}$ [kN]	$F_{A\ GR}$ [kN]	Tip / Type	Kg	Sayfa Page mm
0.75	34.2	155	1.0	40.91	5.0	8.0	6.0	8.0			
	39.3	137	1.1	35.63	5.0	8.0	6.0	8.0			
	45.3	128	1.2	30.93	5.0	6.0	6.0	8.0			
	51.6	114	1.4	27.15	5.0	6.0	6.0	8.0			
	58.3	101	1.5	24.00	5.0	6.0	6.0	8.0			
	72.2	82	1.8	19.39	4.0	6.0	6.0	8.0			
	82.9	72	1.7	16.89	4.0	6.0	6.0	8.0			
	94.8	63	1.8	14.77	4.0	5.0	6.0	8.0	**PSH 2050 - 80M/4B**	23	74-75
	106.5	59	2.1	13.15	4.0	4.0	6.0	8.0			
	120.4	52	2.2	11.63	4.0	4.0	6.0	8.0			
	149.1	42	2.6	9.39	3.0	4.0	6.0	8.0			
	171.1	37	2.8	8.18	3.0	4.0	6.0	8.0			
	195.8	33	2.8	7.15	3.0	4.0	6.0	8.0			
	63.6	83	0.9	22.00	3.0	4.0	-	-			
	71.6	81	1.0	19.55	4.0	4.0	-	-			
	82.0	71	1.1	17.08	4.0	4.0	-	-			
	93.3	63	1.2	15.01	4.0	4.0	-	-			
	105.5	56	1.3	13.27	4.0	4.0	-	-			
	137.0	43	1.5	10.22	4.0	4.0	-	-	**PSH 2040- 80M/4B**	16	70-71
	159.1	37	1.8	8.80	4.0	4.0	-	-			
	186.4	33	1.7	7.51	4.0	3.0	-	-			
	211.2	29	1.9	6.63	4.0	3.0	-	-			
	274.0	22	2.1	5.11	3.0	3.0	-	-			
	318.2	19	2.4	4.40	3.0	3.0	-	-			
1.10	1.5	3596	0.9	928.25	18.0	21.0	27.0	28.0	**PSH 3125 - 90S/4A**	121	110-111
	1.9	2951	1.0	495.64	23.0	21.0	27.0	28.0	**PSH 2125 - 90L/6B**	106	106-107
	2.0	2799	1.0	695.60	23.0	21.0	27.0	28.0			
	2.8	2068	1.4	495.64	27.0	21.0	27.0	28.0			
	7.0	977	2.7	201.71	27.0	21.0	27.0	28.0			
	7.7	898	2.9	182.58	27.0	21.0	27.0	28.0			
	8.8	802	3.1	160.58	27.0	21.0	27.0	28.0	**PSH 2125 - 90S/4A**	104	106-107
	9.7	733	3.3	144.62	27.0	21.0	27.0	28.0			
	12.0	622	3.6	117.50	26.0	21.0	27.0	28.0			
	14.0	539	4.0	100.48	25.0	21.0	27.0	28.0			
	3.4	1650	0.8	410.00	10.0	12.0	16.0	16.0			
	4.6	1313	1.1	303.85	14.0	12.0	16.0	16.0			
	5.8	1044	1.4	241.67	16.0	12.0	16.0	16.0			
	7.7	833	1.6	183.33	16.0	12.0	16.0	16.0			
	8.5	764	1.7	165.38	16.0	12.0	16.0	16.0			
	10.9	624	2.0	128.85	15.0	12.0	16.0	16.0			
	13.6	518	2.3	103.85	14.0	12.0	16.0	16.0			
	15.0	534	2.5	94.25	14.0	12.0	16.0	16.0	**PSH 2100 - 90S/4A**	65	98-99
	19.7	416	2.9	71.50	13.0	12.0	16.0	16.0			
	21.9	380	3.1	64.50	12.0	12.0	16.0	16.0			
	28.1	300	3.7	50.25	12.0	12.0	16.0	16.0			
	33.0	271	3.4	42.78	11.0	12.0	16.0	16.0			
	36.5	244	3.5	38.59	11.0	12.0	16.0	16.0			
	41.1	212	4.1	34.29	10.0	12.0	16.0	16.0			

P_1 [kW]	n_2 [Min^{-1}]	M_2 [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	$F_{R\ GR}$ [kN]	$F_{A\ GR}$ [kN]	Tip / Type	Kg	Sayfa Page mm
1.10	8.9	681	1.0	157.64	7.0	9.0	12.0	12.0	PSH 2080 - 90S/4A	40	90-91
	10.2	617	1.0	138.13	8.0	9.0	13.0	12.0			
	11.4	562	1.1	123.58	8.0	9.0	13.0	12.0			
	13.3	491	1.2	106.25	9.0	9.0	13.0	12.0			
	15.0	442	1.3	94.15	9.0	9.0	13.0	12.0			
	17.9	440	1.5	78.83	9.0	9.0	13.0	12.0			
	21.2	376	1.7	66.45	10.0	9.0	13.0	12.0			
	24.2	334	1.8	58.23	10.0	9.0	13.0	12.0			
	27.1	299	1.9	52.10	9.0	9.0	13.0	12.0			
	31.5	260	2.1	44.79	9.0	9.0	13.0	12.0			
	37.2	234	2.3	37.89	9.0	9.0	13.0	12.0			
	44.1	200	2.6	31.94	8.0	9.0	13.0	12.0			
	50.4	177	2.9	27.99	8.0	9.0	13.0	12.0			
	56.3	159	3.1	25.04	8.0	9.0	13.0	12.0			
	65.5	138	3.4	21.53	7.0	9.0	13.0	12.0			
	73.9	122	3.6	19.08	7.0	9.0	13.0	12.0			
	88.3	106	3.1	15.97	7.0	9.0	13.0	12.0			
	100.8	93	3.2	13.99	6.0	9.0	13.0	12.0			
	112.6	84	3.4	12.52	6.0	9.0	13.0	12.0			
	131.0	72	3.5	10.76	6.0	9.0	13.0	12.0			
	28.3	278	0.9	49.84	7.0	8.0	10.0	10.0	PSH 2063 - 90S/4A	30	82-83
	32.1	245	1.0	43.90	7.0	8.0	11.0	10.0			
	36.3	220	1.1	38.87	7.0	8.0	11.0	10.0			
	40.4	211	1.2	34.94	7.0	8.0	11.0	10.0			
	49.3	175	1.4	28.59	6.0	8.0	11.0	10.0			
	56.0	156	1.6	25.18	6.0	8.0	11.0	10.0			
	63.3	138	1.8	22.29	6.0	8.0	11.0	10.0			
	74.2	119	1.8	19.01	6.0	8.0	11.0	10.0			
	90.5	101	1.9	15.58	5.0	8.0	11.0	10.0			
	110.6	84	2.2	12.75	5.0	7.0	11.0	10.0			
	125.6	74	2.4	11.23	5.0	7.0	11.0	10.0			
	141.9	66	2.6	9.94	5.0	7.0	10.0	10.0			
	166.3	56	3.0	8.48	5.0	7.0	10.0	10.0			
	190.5	49	3.2	7.40	4.0	6.0	10.0	10.0			
	58.8	147	1.1	24.00	4.0	5.0	6.0	8.0	PSH 2050 - 90S/4A	26	74-75
	72.7	120	1.2	19.39	4.0	5.0	6.0	8.0			
	83.5	104	1.1	16.89	4.0	5.0	6.0	8.0			
	95.5	92	1.2	14.77	4.0	5.0	6.0	8.0			
	107.2	85	1.4	13.15	3.0	3.0	6.0	8.0			
	121.2	75	1.5	11.63	3.0	3.0	6.0	8.0			
	150.2	61	1.8	9.39	3.0	3.0	6.0	8.0			
	172.4	54	2.1	8.18	3.0	3.0	6.0	8.0			
	197.2	47	2.2	7.15	3.0	3.0	6.0	8.0			
	93.9	92	0.8	15.01	3.0	3.0	-	-	PSH 2040 - 90S/4A	19	70-71
	106.3	81	0.9	13.27	4.0	3.0	-	-			
	138.0	63	1.1	10.22	4.0	3.0	-	-			
	160.2	54	1.2	8.80	4.0	3.0	-	-			
	187.7	48	1.2	7.51	3.0	2.0	-	-			
	212.7	43	1.3	6.63	3.0	2.0	-	-			
	275.9	34	1.4	5.11	3.0	2.0	-	-			
	320.5	29	1.6	4.40	3.0	2.0	-	-			

P_1 [kW]	n_2 [Min^{-1}]	M_2 [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	$F_{R\ GR}$ [kN]	$F_{A\ GR}$ [kN]	Tip / Type	Kg	Sayfa Page mm
1.50	2.9	2800	1.0	495.64	23.0	21.0	27.0	28.0			
	7.0	1323	2.0	201.71	27.0	21.0	27.0	28.0			
	7.8	1216	2.1	182.58	27.0	21.0	27.0	28.0			
	8.8	1085	2.3	160.58	27.0	21.0	27.0	28.0			
	9.8	992	2.4	144.62	27.0	21.0	27.0	28.0			
	12.1	842	2.7	117.50	25.0	21.0	27.0	28.0	**PSH 2125 - 90L/4A**	106	106-107
	14.1	730	2.9	100.48	24.0	21.0	27.0	28.0			
	16.2	705	2.7	87.40	23.0	21.0	27.0	28.0			
	18.5	628	2.9	76.88	23.0	21.0	27.0	28.0			
	20.5	566	2.9	69.23	22.0	21.0	27.0	28.0			
	25.2	471	3.0	56.25	21.0	21.0	27.0	28.0			
	5.1	1592	0.9	183.33	11.0	12.0	16.0	16.0	**PSH 2100 - 100L/6A**	71	98-99
	5.9	1414	1.0	241.67	13.0	12.0	16.0	16.0			
	7.7	1128	1.2	183.33	15.0	12.0	16.0	16.0			
	8.6	1034	1.3	165.38	15.0	12.0	16.0	16.0			
	11.0	845	1.5	128.85	14.0	12.0	16.0	16.0			
	13.7	702	1.7	103.85	13.0	12.0	16.0	16.0			
	15.1	723	1.8	94.25	13.0	12.0	16.0	16.0			
	19.9	563	2.2	71.50	12.0	12.0	16.0	16.0			
	22.0	514	2.3	64.50	12.0	12.0	16.0	16.0	**PSH 2100- 90L/4A**	67	98-99
	28.3	406	2.7	50.25	11.0	12.0	16.0	16.0			
	33.2	367	2.5	42.78	11.0	12.0	16.0	16.0			
	36.8	331	2.6	38.59	10.0	12.0	16.0	16.0			
	41.4	287	3.0	34.29	10.0	12.0	16.0	16.0			
	47.2	261	2.8	30.06	10.0	12.0	16.0	16.0			
	58.6	213	3.0	24.23	9.0	12.0	16.0	16.0			
	15.1	598	0.9	94.15	8.0	9.0	13.0	12.0			
	18.0	596	1.1	78.83	8.0	9.0	13.0	12.0			
	21.4	509	1.2	66.45	9.0	9.0	13.0	12.0			
	24.4	452	1.3	58.23	9.0	9.0	13.0	12.0			
	27.3	405	1.4	52.10	9.0	9.0	13.0	12.0			
	31.7	352	1.6	44.79	9.0	9.0	13.0	12.0			
	37.5	317	1.7	37.89	8.0	9.0	13.0	12.0			
	44.5	271	1.9	31.94	8.0	9.0	13.0	12.0			
	50.7	240	2.1	27.99	8.0	9.0	13.0	12.0			
	56.7	215	2.3	25.04	7.0	9.0	13.0	12.0	**PSH 2080 - 90L/4A**	42	90-91
	66.0	187	2.5	21.53	7.0	9.0	13.0	12.0			
	74.4	166	2.7	19.08	7.0	9.0	13.0	12.0			
	88.9	143	2.2	15.97	6.0	9.0	13.0	12.0			
	101.5	126	2.4	13.99	6.0	9.0	13.0	12.0			
	113.4	114	2.5	12.52	6.0	8.0	13.0	12.0			
	132.0	98	2.6	10.76	6.0	8.0	13.0	12.0			
	148.8	87	2.8	9.54	6.0	8.0	13.0	12.0			
	188.1	69	2.8	7.55	5.0	7.0	12.0	12.0			
	49.7	237	1.0	28.59	6.0	8.0	11.0	10.0			
	56.4	211	1.2	25.18	6.0	8.0	11.0	10.0			
	63.7	187	1.3	22.29	6.0	8.0	11.0	10.0			
	74.7	161	1.3	19.01	5.0	8.0	11.0	10.0			
	91.1	137	1.4	15.58	5.0	7.0	11.0	10.0	**PSH 2063 - 90L/4A**	32	82-83
	111.4	113	1.6	12.75	5.0	7.0	11.0	10.0			
	126.4	100	1.8	11.23	5.0	6.0	11.0	10.0			
	142.9	89	1.9	9.94	4.0	6.0	10.0	10.0			
	167.5	76	2.2	8.48	4.0	6.0	10.0	10.0			
	191.9	67	2.3	7.40	4.0	6.0	10.0	10.0			
	84.1	141	0.8	16.89	4.0	4.0	6.0	8.0			
	96.1	125	0.9	14.77	4.0	4.0	6.0	8.0			
	108.0	115	1.0	13.15	2.0	2.0	6.0	7.0			
	122.1	102	1.1	11.63	3.0	2.0	6.0	7.0	**PSH 2050 - 90L/4A**	28	74-75
	151.2	83	1.3	9.39	3.0	3.0	6.0	7.0			
	173.6	73	1.5	8.18	3.0	3.0	6.0	7.0			
	198.6	63	1.7	7.15	3.0	3.0	6.0	7.0			

P_1 [kW]	n_2 [Min^{-1}]	M_2 [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	$F_{R\ GR}$ [kN]	$F_{A\ GR}$ [kN]	Tip / Type	Kg	Sayfa Page mm
2.20	4.2	2968	1.0	337.55	23.0	21.0	27.0	28.0			
	7.0	1954	1.3	201.71	27.0	21.0	27.0	28.0			
	7.7	1796	1.4	182.58	27.0	21.0	27.0	28.0			
	8.8	1564	1.6	160.58	26.0	21.0	27.0	28.0			
	9.7	1465	1.6	144.62	25.0	21.0	27.0	28.0			
	12.0	1243	1.8	117.50	24.0	21.0	27.0	28.0			
	14.0	1078	2.0	100.48	23.0	21.0	27.0	28.0			
	16.1	1042	2.3	87.40	22.0	21.0	27.0	28.0	**PSH 2125 - 100L/4A**	110	106-107
	18.3	928	2.5	76.88	21.0	21.0	27.0	28.0			
	20.4	836	2.3	69.23	21.0	21.0	27.0	28.0			
	25.1	696	3.0	56.25	20.0	21.0	27.0	28.0			
	29.3	602	3.3	48.10	19.0	21.0	27.0	28.0			
	34.4	519	3.5	40.98	18.0	21.0	27.0	28.0			
	39.9	463	2.7	35.31	17.0	21.0	27.0	28.0			
	44.4	417	2.9	31.79	17.0	21.0	27.0	28.0			
	10.9	1248	1.0	128.85	12.0	12.0	16.0	16.0			
	13.6	1037	1.1	103.85	12.0	12.0	16.0	16.0			
	15.0	1067	1.2	94.25	11.0	12.0	16.0	16.0			
	19.7	831	1.5	71.50	11.0	12.0	16.0	16.0			
	21.9	759	1.6	64.50	11.0	12.0	16.0	16.0			
	28.1	599	1.9	50.25	10.0	12.0	16.0	16.0			
	33.0	542	2.0	42.78	10.0	12.0	16.0	16.0			
	36.5	489	2.3	38.59	10.0	12.0	16.0	16.0			
	41.1	424	2.6	34.29	9.0	12.0	16.0	16.0			
	46.9	385	2.5	30.06	9.0	12.0	16.0	16.0	**PSH 2100 - 100L/4A**	71	98-99
	58.2	314	2.9	24.23	9.0	12.0	16.0	16.0			
	68.7	269	3.0	20.52	8.0	12.0	16.0	16.0			
	74.4	254	2.2	18.94	8.0	10.0	16.0	16.0			
	82.5	229	2.3	17.09	8.0	9.0	16.0	16.0			
	86.8	216	3.1	16.25	8.0	11.0	16.0	16.0			
	105.9	180	2.6	13.31	7.0	9.0	16.0	16.0			
	131.4	145	2.8	10.73	7.0	9.0	16.0	16.0			
	155.1	125	3.0	9.09	7.0	8.0	15.0	16.0			
	27.1	598	1.0	52.10	8.0	9.0	13.0	12.0			
	31.5	521	1.1	44.79	8.0	9.0	13.0	12.0			
	37.2	469	1.2	37.89	7.0	9.0	13.0	12.0			
	44.1	400	1.3	31.94	7.0	9.0	13.0	12.0			
	50.4	355	1.4	27.99	7.0	9.0	13.0	12.0			
	56.3	317	1.5	25.04	7.0	9.0	13.0	12.0			
	65.5	276	1.7	21.53	7.0	9.0	13.0	12.0			
	73.9	245	1.9	19.08	7.0	9.0	13.0	12.0	**PSH 2080 - 100L/4A**	46	90-91
	88.3	212	1.6	15.97	6.0	7.0	13.0	12.0			
	100.8	186	2.0	13.99	6.0	7.0	13.0	12.0			
	112.6	168	2.1	12.52	6.0	7.0	13.0	12.0			
	131.0	144	2.4	10.76	5.0	7.0	13.0	12.0			
	147.8	128	2.5	9.54	5.0	7.0	12.0	12.0			
	186.8	102	2.7	7.55	5.0	6.0	12.0	11.0			
	74.2	238	0.9	19.01	5.0	7.0	11.0	10.0			
	90.5	202	0.9	15.58	4.0	5.0	11.0	10.0			
	110.6	167	1.1	12.75	4.0	5.0	10.0	10.0			
	125.6	147	1.2	11.23	4.0	5.0	10.0	10.0	**PSH 2063 - 100L/4A**	36	82-83
	141.9	132	1.3	9.94	4.0	5.0	10.0	10.0			
	166.3	112	1.5	8.48	4.0	5.0	9.0	9.0			
	190.5	99	1.6	7.40	4.0	5.0	9.0	9.0			

P_1 [kW]	n_2 [Min^{-1}]	M_2 [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	$F_{R\ GR}$ [kN]	$F_{A\ GR}$ [kN]	Tip / Type	Kg	Sayfa Page mm
3.00	7.0	2664	1.0	201.71	24.0	21.0	27.0	28.0	PSH 2125 - 100L/4B	113	106-107
	7.7	2449	1.0	182.58	24.0	21.0	27.0	28.0			
	8.8	2186	1.1	160.58	24.0	21.0	27.0	28.0			
	9.7	1998	1.2	144.62	24.0	21.0	27.0	28.0			
	12.0	1695	1.3	117.50	23.0	21.0	27.0	28.0			
	14.0	1470	1.4	100.48	22.0	21.0	27.0	28.0			
	16.1	1421	1.7	87.40	21.0	21.0	27.0	28.0			
	18.3	1265	1.8	76.88	20.0	21.0	27.0	28.0			
	20.4	1139	1.7	69.23	20.0	21.0	27.0	28.0			
	25.1	949	2.2	56.25	19.0	21.0	27.0	28.0			
	29.3	830	2.4	48.10	18.0	21.0	27.0	28.0			
	34.4	708	2.6	40.98	17.0	21.0	27.0	28.0			
	39.9	631	2.0	35.31	17.0	21.0	27.0	28.0			
	44.4	568	2.1	31.79	16.0	21.0	27.0	28.0			
	54.6	467	2.3	25.83	15.0	21.0	27.0	28.0			
	63.8	404	2.5	22.09	15.0	21.0	27.0	28.0			
	74.9	344	2.6	18.82	14.0	20.0	27.0	28.0			
	88.7	297	2.1	15.90	13.0	17.0	27.0	28.0			
	109.1	242	2.3	12.92	13.0	16.0	27.0	27.0			
	127.6	209	2.5	11.05	12.0	15.0	26.0	26.0			
	19.7	1133	1.1	71.50	9.0	12.0	16.0	16.0	PSH 2100 - 100L/4B	74	98-99
	21.9	1035	1.1	64.50	9.0	12.0	16.0	16.0			
	28.1	817	1.3	50.25	9.0	12.0	16.0	16.0			
	33.0	739	1.5	42.78	9.0	12.0	16.0	16.0			
	36.5	666	1.7	38.59	9.0	12.0	16.0	16.0			
	41.1	578	1.9	34.29	9.0	12.0	16.0	16.0			
	46.9	525	1.9	30.06	9.0	12.0	16.0	16.0			
	58.2	428	2.1	24.23	8.0	11.0	16.0	16.0			
	68.7	367	2.3	20.52	8.0	11.0	16.0	16.0			
	74.4	346	1.6	18.94	7.0	8.0	16.0	16.0			
	82.5	313	1.7	17.09	7.0	8.0	16.0	16.0			
	86.8	294	2.3	16.25	8.0	10.0	16.0	16.0			
	105.9	246	1.9	13.31	7.0	8.0	16.0	16.0			
	131.4	198	2.1	10.73	7.0	8.0	16.0	16.0			
	155.1	170	2.2	9.09	6.0	7.0	15.0	16.0			
	44.1	545	1.0	31.94	6.0	8.0	13.0	12.0	PSH 2080 - 100L/4B	48	90-91
	50.4	483	1.1	27.99	6.0	8.0	13.0	12.0			
	56.3	432	1.1	25.04	6.0	9.0	13.0	12.0			
	65.5	376	1.2	21.53	6.0	8.0	13.0	12.0			
	73.9	333	1.4	19.08	6.0	8.0	13.0	12.0			
	88.3	289	1.2	15.97	5.0	6.0	13.0	11.0			
	100.8	253	1.4	13.99	5.0	6.0	13.0	11.0			
	112.6	229	1.5	12.52	5.0	6.0	13.0	11.0			
	131.0	197	1.7	10.76	5.0	6.0	13.0	11.0			
	147.8	174	1.8	9.54	5.0	6.0	12.0	11.0			
	186.8	140	2.0	7.55	5.0	6.0	12.0	11.0			

P_1 [kW]	n_2 [Min^{-1}]	M_2 [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	$F_{R\ GR}$ [kN]	$F_{A\ GR}$ [kN]	Tip / Type	Kg	Sayfa Page mm
4.00	9.9	2627	0.9	144.62	21.0	21.0	27.0	28.0	**PSH 2125 - 112M/4B**	122	106-107
	12.2	2229	1.0	117.50	21.0	21.0	27.0	28.0			
	14.2	1933	1.1	100.48	20.0	21.0	27.0	28.0			
	16.4	1868	1.3	87.40	19.0	21.0	27.0	28.0			
	18.6	1664	1.4	76.88	19.0	21.0	27.0	28.0			
	20.7	1498	1.3	69.23	18.0	21.0	27.0	28.0			
	25.4	1247	1.7	56.25	18.0	21.0	27.0	28.0			
	29.7	1079	1.8	48.10	17.0	21.0	27.0	28.0			
	34.9	931	2.0	40.98	17.0	21.0	27.0	28.0			
	40.5	830	1.9	35.31	16.0	21.0	27.0	28.0			
	45.0	747	2.4	31.79	16.0	21.0	27.0	28.0			
	55.4	614	2.6	25.83	15.0	21.0	27.0	28.0			
	64.7	531	2.8	22.09	14.0	20.0	27.0	28.0			
	76.0	452	2.9	18.82	14.0	19.0	27.0	28.0			
	89.9	391	2.4	15.90	13.0	16.0	27.0	27.0			
	110.7	318	2.6	12.92	12.0	15.0	26.0	26.0			
	129.4	275	2.8	11.05	12.0	14.0	25.0	25.0			
	28.5	1074	1.0	50.25	8.0	12.0	16.0	16.0	**PSH 2100 - 112M/4B**	83	98-99
	33.4	971	1.1	42.78	8.0	9.0	16.0	16.0			
	37.1	876	1.3	38.59	8.0	10.0	16.0	16.0			
	41.7	760	1.4	34.29	8.0	12.0	16.0	16.0			
	47.6	691	1.5	30.06	8.0	10.0	16.0	16.0			
	59.0	563	1.8	24.23	8.0	10.0	16.0	16.0			
	69.7	482	1.7	20.52	7.0	10.0	16.0	16.0			
	75.5	455	1.8	18.94	6.0	6.0	16.0	16.0			
	83.7	411	1.7	17.09	6.0	6.0	16.0	16.0			
	88.0	386	1.9	16.25	7.0	9.0	16.0	16.0			
	107.4	324	2.1	13.31	6.0	6.0	16.0	16.0			
	133.3	261	2.4	10.73	6.0	7.0	15.0	16.0			
	157.3	223	2.5	9.09	6.0	6.0	15.0	16.0			
	198.6	177	2.6	7.20	6.0	6.0	14.0	15.0			
	66.4	495	1.0	21.53	5.0	7.0	13.0	12.0	**PSH 2080 - 112M/4B**	57	90-91
	74.9	438	1.0	19.08	5.0	7.0	13.0	12.0			
	89.5	380	0.9	15.97	4.0	3.0	13.0	9.0			
	102.2	333	1.1	13.99	4.0	4.0	13.0	10.0			
	114.2	301	1.1	12.52	4.0	4.0	12.0	10.0			
	132.9	259	1.3	10.76	5.0	4.0	12.0	10.0			
	149.9	229	1.5	9.54	5.0	5.0	12.0	10.0			
	189.4	184	1.6	7.55	4.0	5.0	11.0	10.0			
5.50	18.8	2264	1.0	76.88	16.0	21.0	27.0	28.0	**PSH 2125 - 132S/4C**	136	106-107
	20.9	2038	1.0	69.23	16.0	21.0	27.0	28.0			
	25.7	1697	1.2	56.25	16.0	21.0	27.0	28.0			
	30.0	1469	1.3	48.10	16.0	21.0	27.0	28.0			
	35.3	1266	1.5	40.98	15.0	21.0	27.0	28.0			
	40.9	1129	1.1	35.31	15.0	20.0	27.0	28.0			
	45.5	1017	1.8	31.79	15.0	19.0	27.0	28.0			
	55.9	836	2.0	25.83	14.0	19.0	27.0	28.0			
	65.4	723	2.2	22.09	14.0	18.0	27.0	28.0			
	76.8	616	2.5	18.82	13.0	17.0	27.0	28.0			
	90.9	532	2.3	15.90	12.0	14.0	27.0	25.0			
	99.4	481	2.8	14.54	12.0	16.0	27.0	27.0			
	111.8	432	2.8	12.92	12.0	13.0	26.0	24.0			
	130.8	374	2.9	11.05	11.0	13.0	25.0	24.0			
	153.6	318	3.1	9.41	11.0	12.0	24.0	23.0			
	171.2	285	3.3	8.44	10.0	12.0	23.0	23.0			
	186.5	262	3.3	7.75	10.0	12.0	23.0	22.0			
	198.8	246	3.4	7.27	10.0	12.0	22.0	22.0			

P_1 [kW]	n_2 [Min^{-1}]	M_2 [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	$F_{R\ GR}$ [kN]	$F_{A\ GR}$ [kN]	Tip / Type	Kg	Sayfa Page mm
5.50	48.1	940	1.1	30.06	6.0	7.0	16.0	16.0	**PSH 2100 - 132S/4C**	97	98-99
	59.6	766	1.3	24.23	6.0	8.0	16.0	16.0			
	70.4	656	1.3	20.52	6.0	8.0	16.0	16.0			
	76.3	620	0.9	18.94	3.0	3.0	16.0	13.0			
	84.6	559	1.3	17.09	4.0	3.0	16.0	14.0			
	88.9	526	1.4	16.25	6.0	8.0	16.0	16.0			
	108.6	440	1.6	13.31	5.0	4.0	15.0	14.0			
	134.7	355	2.0	10.73	6.0	5.0	15.0	14.0			
	159.0	304	2.4	9.09	5.0	5.0	14.0	14.0			
	200.7	241	2.8	7.20	5.0	5.0	14.0	14.0			
7.50	30.1	1996	1.0	48.10	14.0	21.0	27.0	28.0	**PSH 2125 - 132M/4B**	147	106-107
	35.4	1721	1.1	40.98	14.0	20.0	27.0	28.0			
	41.1	1535	0.8	35.31	13.0	16.0	27.0	28.0			
	45.6	1382	1.3	31.79	13.0	16.0	27.0	28.0			
	56.1	1136	1.5	25.83	13.0	16.0	27.0	28.0			
	65.6	982	1.6	22.09	13.0	16.0	27.0	27.0			
	77.0	837	1.8	18.82	12.0	15.0	27.0	27.0			
	91.2	723	1.7	15.90	11.0	11.0	26.0	23.0			
	99.7	654	2.1	14.54	12.0	15.0	26.0	26.0			
	112.2	587	2.0	12.92	11.0	11.0	25.0	22.0			
	131.2	508	2.2	11.05	10.0	11.0	24.0	22.0			
	154.1	432	2.3	9.41	10.0	11.0	23.0	22.0			
	171.8	388	2.4	8.44	10.0	11.0	23.0	21.0			
	187.1	356	2.4	7.75	10.0	11.0	22.0	21.0			
	199.4	334	2.5	7.27	10.0	11.0	22.0	21.0			
	89.2	714	1.0	16.25	5.0	6.0	16.0	16.0	**PSH 2100 - 132M/4B**	107	98-99
	108.9	598	1.2	13.31	2.0	2.0	14.0	11.0			
	135.1	482	1.5	10.73	3.0	3.0	14.0	12.0			
	159.5	413	1.8	9.09	4.0	3.0	14.0	12.0			
	201.4	327	2.1	7.20	5.0	4.0	13.0	12.0			
9.20	45.6	1695	1.1	31.79	12.0	13.0	27.0	26.0	**PSH 2125 - 132M/4**	154	106-107
	56.1	1393	1.2	25.83	12.0	14.0	27.0	26.0			
	65.6	1205	1.3	22.09	12.0	14.0	27.0	26.0			
	77.0	1026	1.5	18.82	12.0	14.0	27.0	25.0			
	91.2	886	1.4	15.90	10.0	9.0	25.0	20.0			
	99.7	802	1.7	14.54	11.0	13.0	26.0	25.0			
	112.2	720	1.7	12.92	10.0	9.0	24.0	21.0			
	131.2	623	2.0	11.05	10.0	10.0	24.0	21.0			
	154.1	530	2.1	9.41	10.0	10.0	23.0	20.0			
	171.8	476	2.4	8.44	10.0	10.0	22.0	20.0			
	187.1	437	2.3	7.75	9.0	10.0	22.0	20.0			
	199.4	410	2.3	7.27	9.0	10.0	21.0	20.0			
11.00	56.1	1665	1.0	25.83	11.0	11.0	27.0	24.0	**PSH 2125 - 160M/4B**	174	106-107
	65.6	1440	1.1	22.09	11.0	12.0	27.0	24.0			
	77.0	1227	1.2	18.82	11.0	12.0	27.0	24.0			
	91.2	1060	1.2	15.90	8.0	6.0	24.0	18.0			
	99.7	959	1.4	14.54	10.0	12.0	25.0	24.0			
	112.2	861	1.4	12.92	9.0	7.0	24.0	19.0			
	131.2	745	1.7	11.05	9.0	8.0	23.0	19.0			
	154.1	634	1.8	9.41	9.0	8.0	22.0	19.0			
	171.8	569	2.0	8.44	9.0	8.0	22.0	19.0			
	187.1	522	1.9	7.75	9.0	8.0	21.0	19.0			
	199.4	490	1.9	7.27	9.0	9.0	21.0	19.0			
15.00	99.7	1307	1.0	14.54	9.0	9.0	24.0	21.0	**PSH 2125 - 160L/4A**	199	106-107
	112.2	1174	1.1	12.92	4.0	3.0	22.0	15.0			
	131.2	1015	1.2	11.05	5.0	4.0	22.0	16.0			
	154.1	865	1.3	9.41	6.0	5.0	21.0	16.0			
	171.8	775	1.5	8.44	7.0	6.0	21.0	16.0			
	187.1	712	1.4	7.75	7.0	6.0	20.0	17.0			
	199.4	668	1.4	7.27	8.0	6.0	20.0	17.0			

İki - Üç Kademeli Ölçü Tabloları

Double - Trible Stages Dimension Tables

PSH

PSH 2040 DG

PSH 2040 TMA

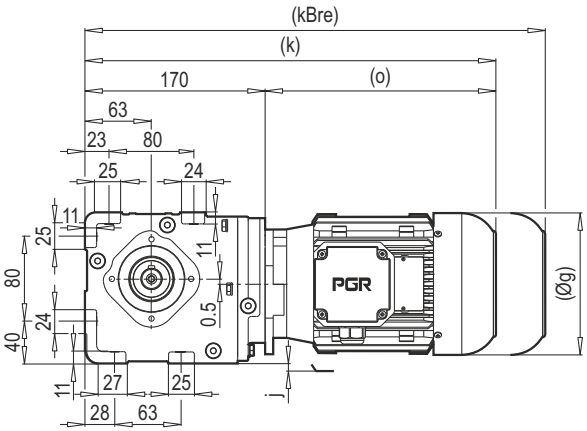
PSH 2050 DG ... 2125 DG

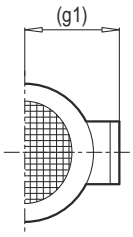
PSH 3050 DG ... 3125 DG

PSH 2050 TMA ... 2125 TMA

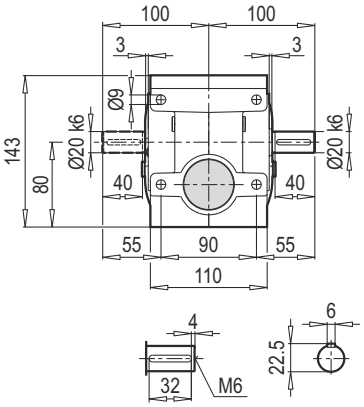
PSH 3050 TMA ... 3125 TMA

PSH 2040 TMA

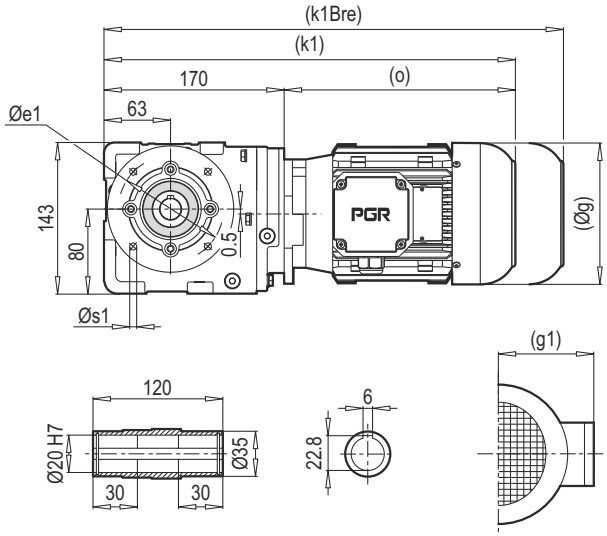


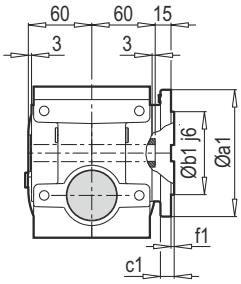


PSH 2040 ÇMA

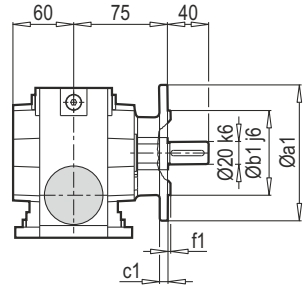


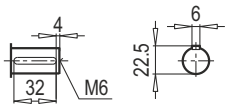
PSH 2040 DG/B5





PSH 2040 TMG/B5



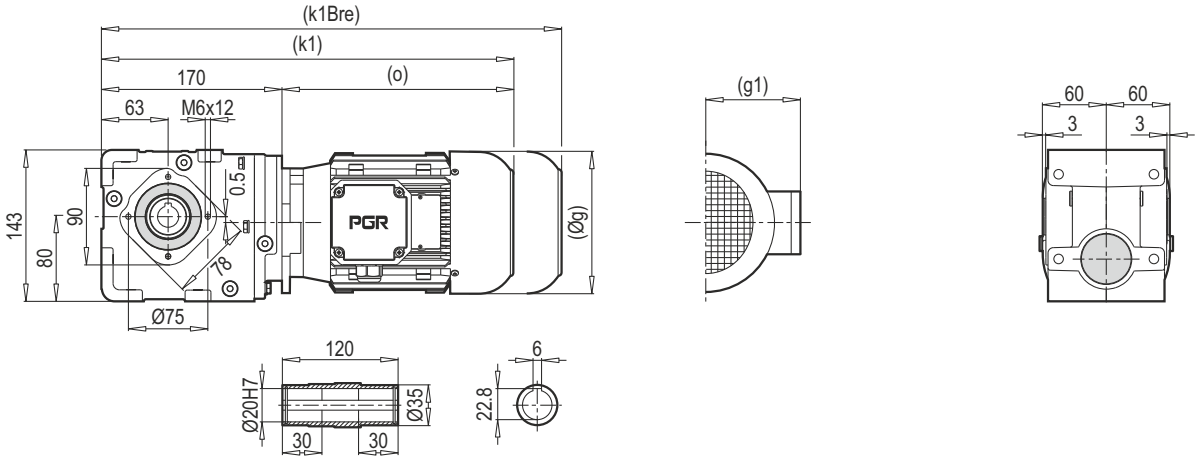


a1	b1	c1	e1	f1	s1
120	80	10	100	3	6.6
160	110	10	130	3.5	9

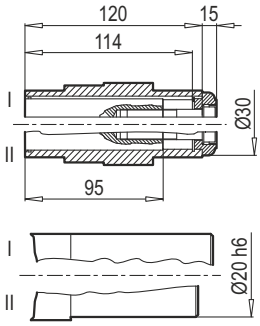
	63 M	71 M	80 M	90 S			
g	124	140	159	193			
g1	111	119	127	151			
k/k1	364/364	388/388	412/412	434/434			
kBre/k1Bre	416/416	448/448	474/474	507/507			
o	194	218	242	264			
j	–	–	3	12			

Not: (...) İşaretli olan ölçüler motor markasına göre farklılık gösterir. / Note: The dimensions which have (...) sign vary depending on the motor brand.

PSH 2040 DG/B14



PSH 2040 DG/Ç

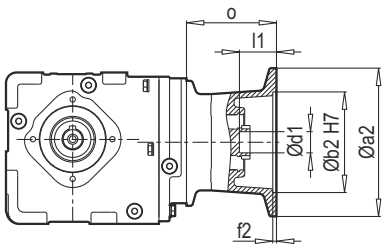


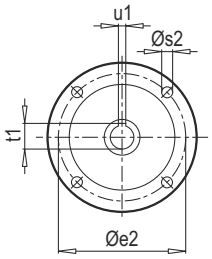
43 - 44

	63 M	71 M	80 M	90 S			
g	124	140	159	193			
g1	111	119	127	151			
k1	364	388	412	434			
k1Bre	416	448	474	507			
o	194	218	242	264			

Not: (...) İşaretli olan ölçüler motor markasına göre farklılık gösterir. / Note: The dimensions which have (...) sign vary depending on the motor brand.

PSH 2040 IEC

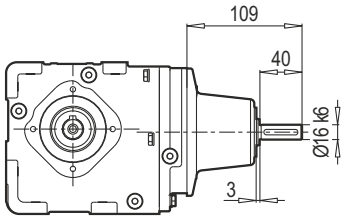


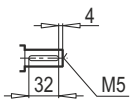


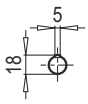
Tip / Type	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PSH 2040	63	140	95	115	3.5	M8	11	23	12.8	4	85
	71	160	110	130	4.0	M8	14	30	16.3	5	85
	80	200	130	165	4.0	M10	19	40	21.8	6	103
	90	200	130	165	4.0	M10	24	50	27.3	8	103

~ Kg	
IEC	PSH 2040
63	10
71	11
80	13
90	13

PSH 2040 W

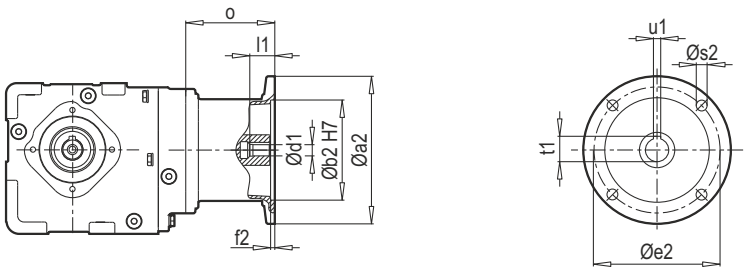






W ~ Kg	
PSH 2040	9

PSH 2040 PAM B5/B14



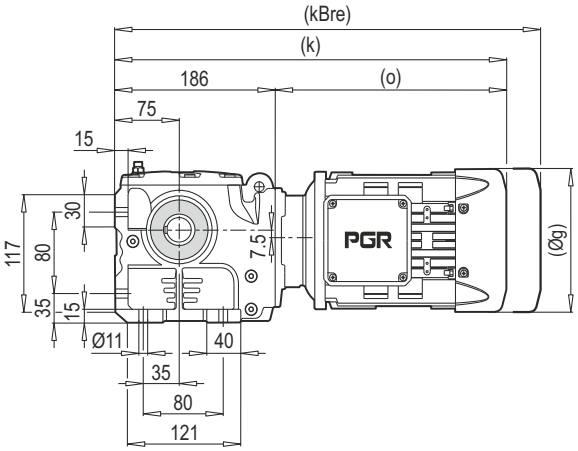
Tip / Type	PAM B5	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PSH 2040	63	140	95	115	3.5	M8	11	23	12.8	4	85
	71	160	110	130	4.0	M8	14	30	16.3	5	85
	80	200	130	165	4.0	M10	19	40	21.8	6	103
	90	200	130	165	4.0	M10	24	50	27.3	8	103

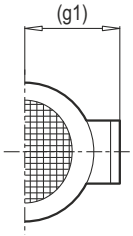
~ Kg	
PAM B5	PSH 2040
63	9
71	10
80	12
90	12

Tip / Type	PAM B14	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PSH 2040	63	90	60	75	4.0	6	11	23	12.8	4	85
	71	105	70	85	4.0	7	14	30	16.3	5	85
	80	120	80	100	4.0	7	19	40	21.8	6	103
	90	140	95	115	4.0	9	24	50	27.3	8	103

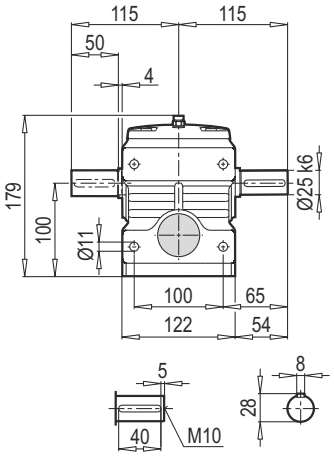
~ Kg	
PAM B14	PSH 2040
63	8
71	9
80	11
90	11

PSH 2050 TMA

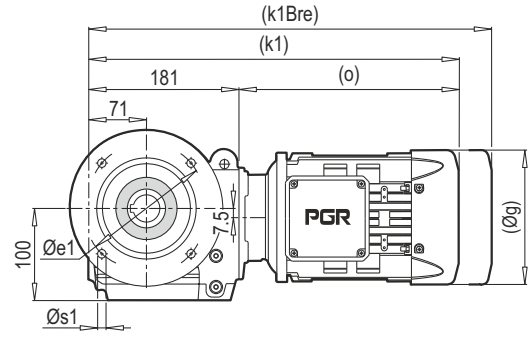


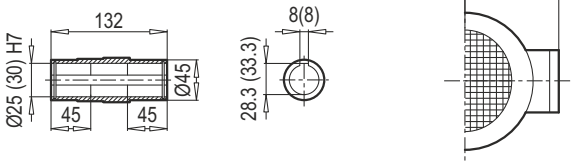


PSH 2050 ÇMA

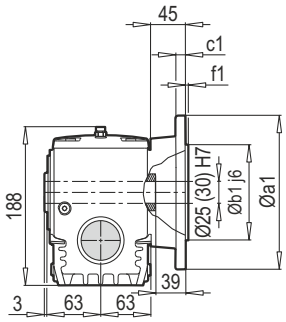


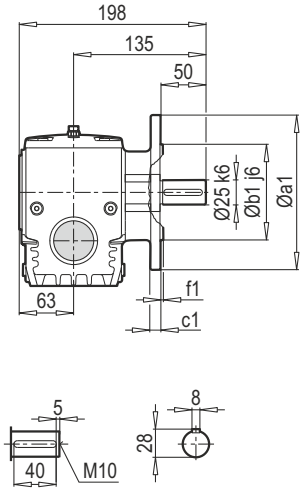
PSH 2050 DG/B5





PSH 2050 TMG/B5





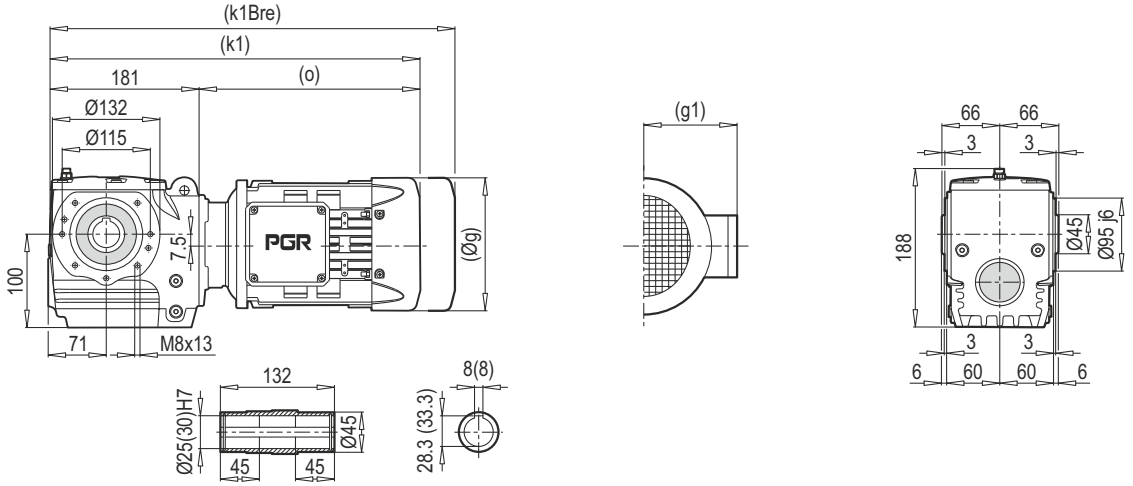
a1	b1	c1	e1	f1	s1
200	130	12	165	3.5	4 x 11

a1	b1	c1	e1	f1	s1
160	110	10	130	3.5	4 x 9

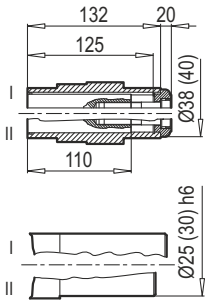
	63 M	71 M	80 M	90 S	90 L		
g	124	140	159	193	193		
g1	111	119	127	151	151		
k/k1	384 / 379	426 / 421	453 / 448	476 / 471	496 / 491		
kBre/k1Bre	436 / 431	486 / 481	515 / 510	549 / 544	569 / 564		
o	198	240	267	290	310		

Not: (...) İşaretli olan ölçüler motor markasına göre farklılık gösterir. / Note: The dimensions which have (...) sign vary depending on the motor brand.

PSH 2050 DG/B14

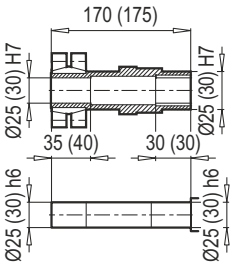


PSH 2050 DG/Ç

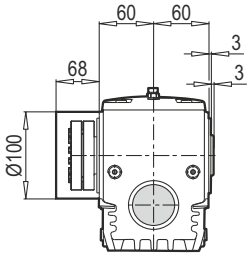


43 - 44

PSH 2050 DG/KS



PSH 2050 DG/KS/KK

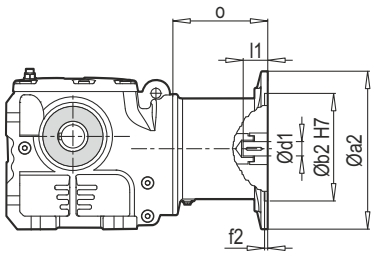


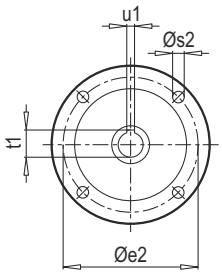
Konik sıktırma / Shrink disc 41				Altıköşe başlı civata / Hexagonal screw DIN 931 / DIN 933* 10.9Vz		
Tip/Type	M_{amax} (Nm)	s^{h6}	s^{f6}	dxl	Zs	MA (Nm)
KS 25/35	182	2.8	2.3	M5x25	8	7
KS 30/40	182	5.4	4.7	M6x35*	8	12

	63 M	71 M	80 M	90 S	90 L		
g	124	140	159	193	193		
g1	111	119	127	151	151		
k1	379	421	448	471	491		
k1Bre	431	481	510	544	564		
o	198	240	267	290	310		

Not: (...) İşaretli olan ölçüler motor markasına göre farklılık gösterir. / Note: The dimensions which have (...) sign vary depending on the motor brand.

PSH 2050 IEC

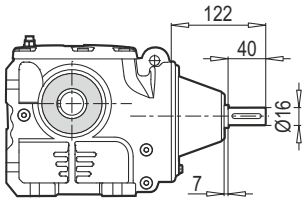


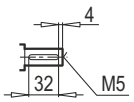


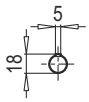
Tip / Type	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PSH 2050	63	140	95	115	3.5	M8	11	23	12.8	4	85
	71	160	110	130	4.0	M8	14	30	16.3	5	89
	80	200	130	165	4.0	M10	19	40	21.8	6	105
	90	200	130	165	4.0	M10	24	50	27.3	8	105

~ Kg	
IEC	PSH 2050
63	19
71	20
80	23
90	23

PSH 2050 W

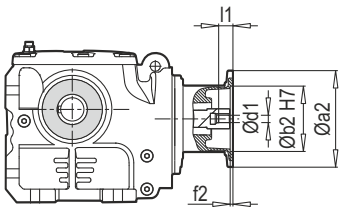


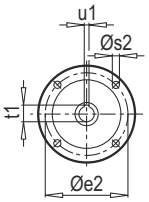




W ~ Kg	
PSH 2050	18

PSH 2050 PAM B5/B14





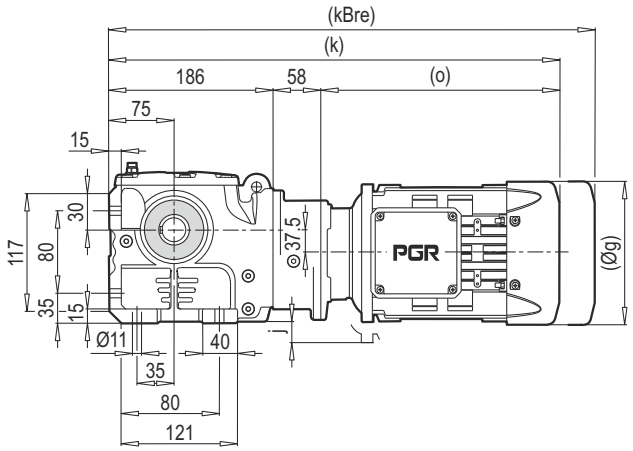
Tip / Type	PAM B5	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PSH 2050	63	140	95	115	3.5	M8	11	23	12.8	4	85
	71	160	110	130	4.0	M8	14	30	16.3	5	55
	80	200	130	165	4.0	M10	19	40	21.8	6	74
	90	200	130	165	4.0	M10	24	50	27.3	8	74

~ Kg	
PAM B5	PSH 2050
63	16
71	16
80	17
90	17

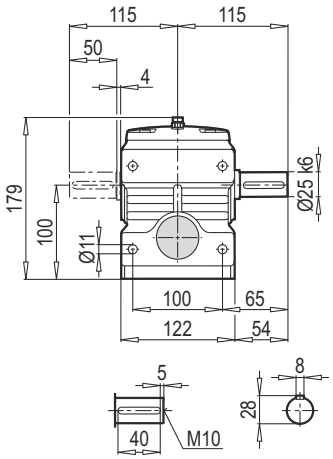
Tip / Type	PAM B14	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PSH 2050	63	90	60	75	4.0	6	11	23	12.8	4	60
	71	105	70	85	4.0	7	14	30	16.3	5	55
	80	120	80	100	4.0	7	19	40	21.8	6	74
	90	140	95	115	4.0	9	24	50	27.3	8	75

~ Kg	
PAM B14	PSH 2050
63	15
71	15
80	16
90	16

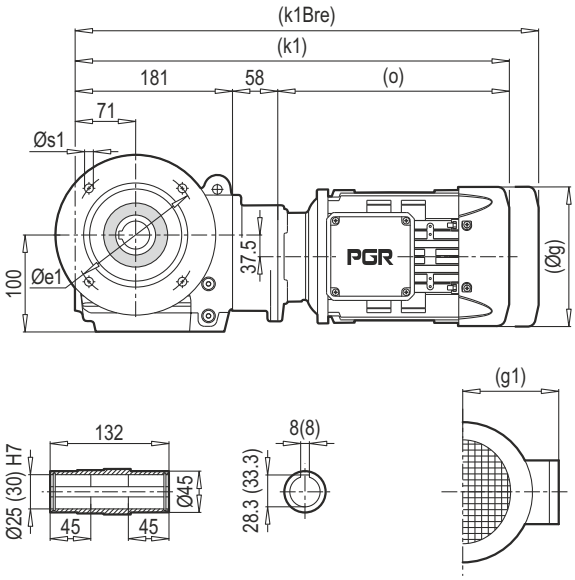
PSH 3050 TMA



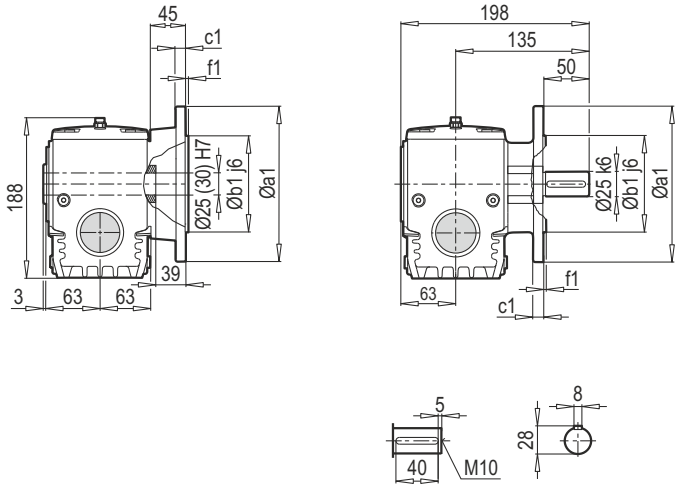
PSH 3050 ÇMA



PSH 3050 DG/B5



PSH 3050 TMG/B5



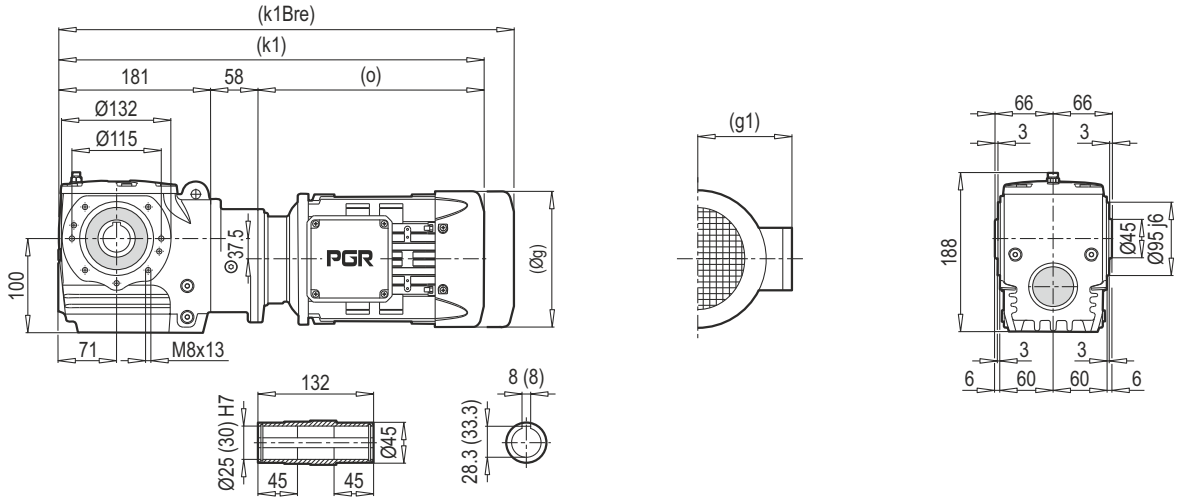
a1	b1	c1	e1	f1	s1
200	130	12	165	3.5	4 x 11

a1	b1	c1	e1	f1	s1
160	110	10	130	3.5	4 x 9

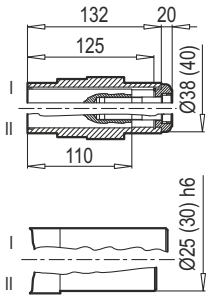
	63 M	71 M					
g	124	140					
g1	111	119					
k/k1	442 / 437	484 / 479					
kBre/k1Bre	494 / 489	544 / 539					
o	198	240					
j	2.5	10					

Not: (...) İşaretli olan ölçüler motor markasına göre farklılık gösterir. / Note: The dimensions which have (...) sign vary depending on the motor brand.

PSH 3050 DG/B14

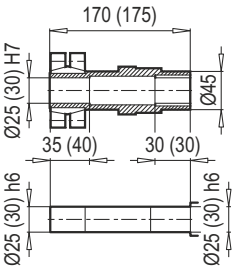


PSH 3050 DG/Ç

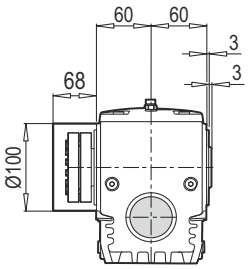


43-44

PSH 3050 DG/KS



PSH 3050 DG/KS/KK

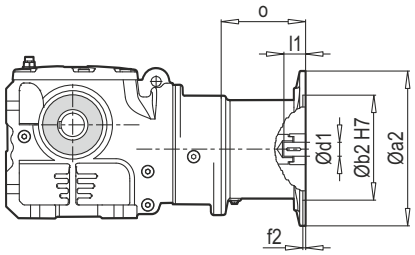


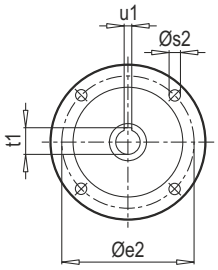
Tip/Type	Konik sıktırma / Shrink disc 41 Mamax (Nm)	s^{h6}	s^{f6}	Altıköşe başlı civata / Hexagonal screw DIN 931 / DIN 933* 10.9Vz dxl	Zs	MA (Nm)
KS 25/35	182	2.8	2.3	M5x25	8	7
KS 30/40	182	5.4	4.7	M6x35*	8	12

	63 M	71 M					
g	124	140					
g1	111	119					
k1	437	479					
k1Bre	489	539					
o	198	240					

Not: (...) İşaretli olan ölçüler motor markasına göre farklılık gösterir. / Note: The dimensions which have (...) sign vary depending on the motor brand.

PSH 3050 IEC

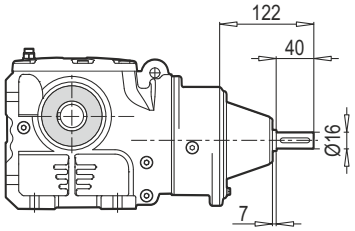


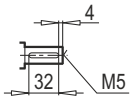


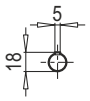
Tip / Type	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PSH 3050	63	140	95	115	3.5	M8	11	23	12.8	4	85
	71	160	110	130	4.0	M8	14	30	16.3	5	89

~ Kg	
IEC	PSH 3050
63	24
71	25

PSH 3050 W

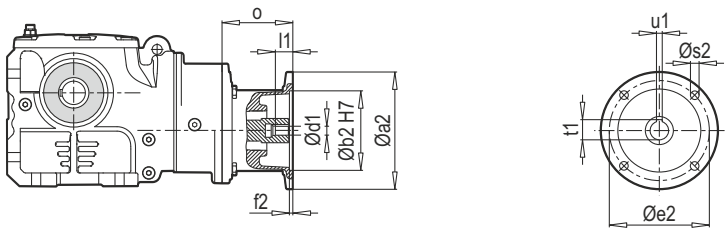






W ~ Kg	
PSH 3050	23

PSH 3050 PAM B5/B14



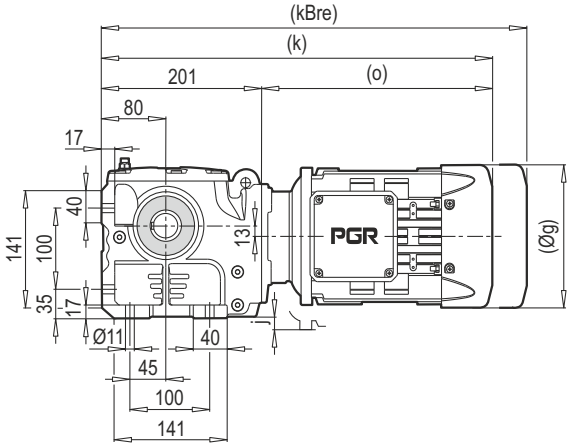
Tip / Type	PAM B5	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PSH 3050	63	140	95	115	3.5	M8	11	23	12.8	4	85
	71	160	110	130	4.0	M8	14	30	16.3	5	55

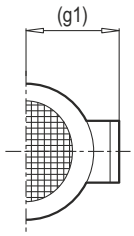
~ Kg	
PAM B5	PSH 3050
63	21
71	21

Tip / Type	PAM B14	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PSH 3050	63	90	60	75	4.0	6	11	23	12.8	4	60
	71	105	70	85	4.0	7	14	30	16.3	5	55

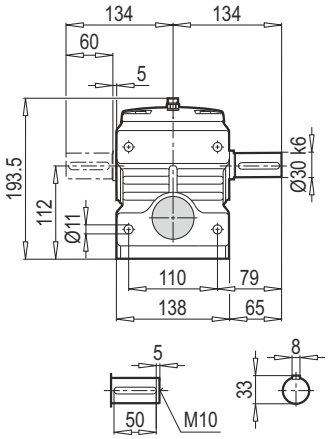
~ Kg	
PAM B14	PSH 3050
63	20
71	20

PSH 2063 TMA

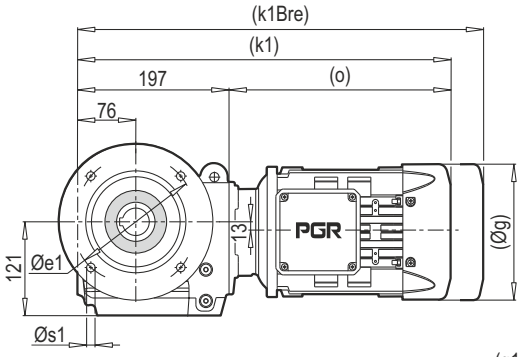


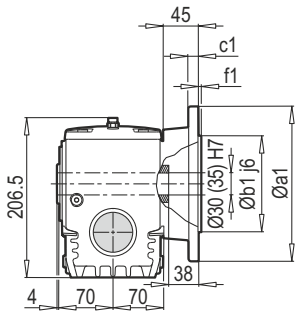


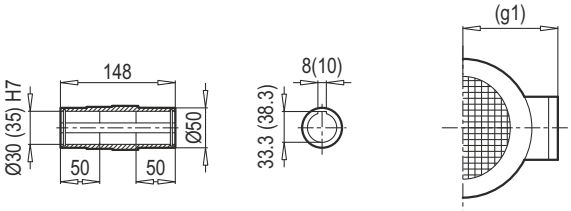
PSH 2063 ÇMA



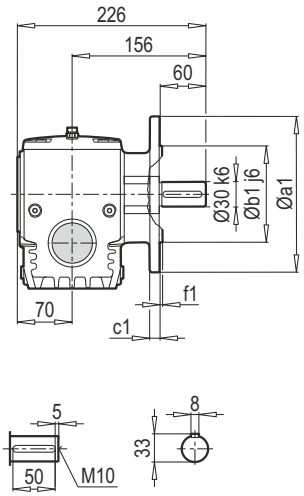
PSH 2063 DG/B5







PSH 2063 TMG/B5



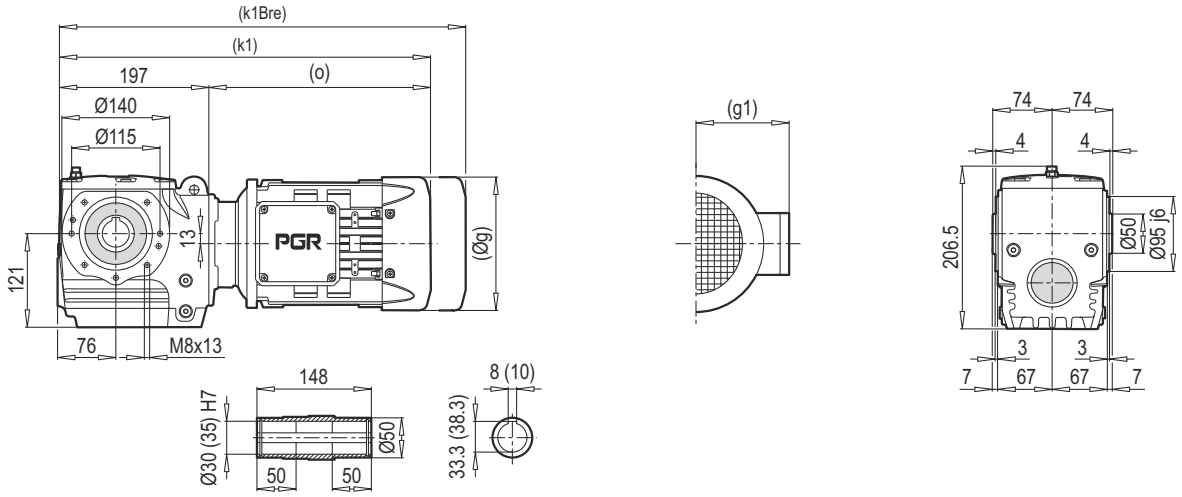
a1	b1	c1	e1	f1	s1
200	130	12	165	3.5	4 x 11

a1	b1	c1	e1	f1	s1
200	130	12	165	3.5	4 x 11

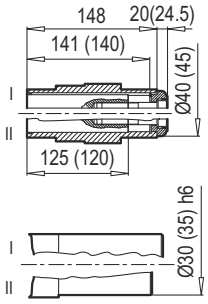
	63 M	71 M	80 M	90 S	90 L	100 L	
g	124	140	159	193	193	217	
g1	111	119	127	151	151	160	
k/k1	399 / 395	441 / 437	468 / 464	491 / 487	511 / 507	539 / 535	
kBre/k1Bre	451 / 447	501 / 497	530 / 526	564 / 560	584 / 580	620 / 616	
o	198	240	267	290	310	338	
j	–	–	–	–	–	2.5	

Not: (...) İşaretli olan ölçüler motor markasına göre farklılık gösterir. / Note: The dimensions which have (...) sign vary depending on the motor brand.

PSH 2063 DG/B14

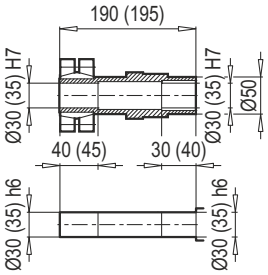


PSH 2063 DG/Ç

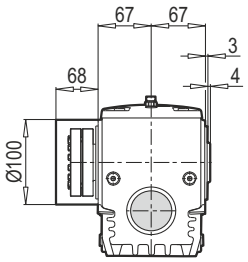


43 - 44

PSH 2063 DG/KS



PSH 2063 DG/KS/KK

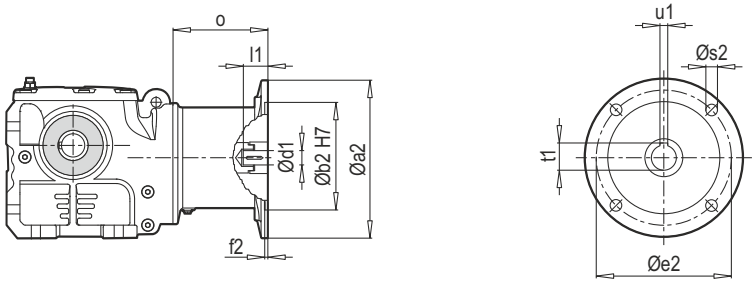


Tip/Type	Konik sıktırma / Shrink disc 41			Altıköşe başlı civata / Hexagonal screw DIN 931 / DIN 933* 10.9Vz		
	Mamax (Nm)	s_{h6}	s_{f6}	dxl	Zs	MA (Nm)
KS 30/40	383	2.6	2.2	M6x35*	8	12
KS 35/46	383	3.0	3.2	M6x35*	10	12

	63 M	71 M	80 M	90 S	90 L	100 L	
g	124	140	159	193	193	217	
g1	111	119	127	151	151	160	
k1	395	437	464	487	507	535	
k1Bre	447	497	526	560	580	616	
o	198	240	267	290	310	338	

Not: (...) İşaretli olan ölçüler motor markasına göre farklılık gösterir. / Note: The dimensions which have (...) sign vary depending on the motor brand.

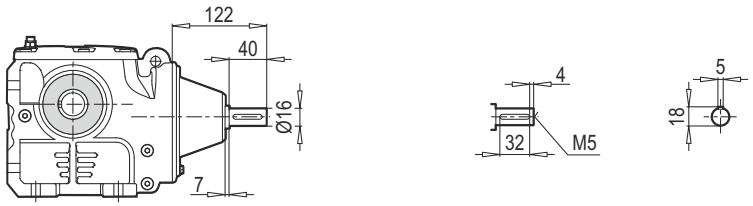
PSH 2063 IEC



Tip / Type	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PSH 2063	63	140	95	115	3.5	M8	11	23	12.8	4	85
	71	160	110	130	4.0	M8	14	30	16.3	5	89
	80	200	130	165	4.0	M10	19	40	21.8	6	105
	90	200	130	165	4.0	M10	24	50	27.3	8	105
	100	250	180	215	5.0	M12	28	60	31.3	8	130

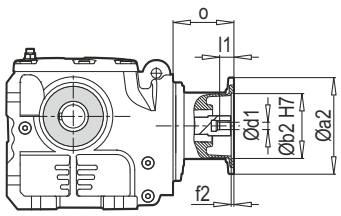
~ Kg	
IEC	PSH 2063
63	23
71	24
80	27
90	27
100	34

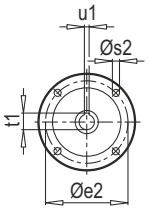
PSH 2063 W



W ~ Kg	
PSH 2063	22

PSH 2063 PAM B5/B14





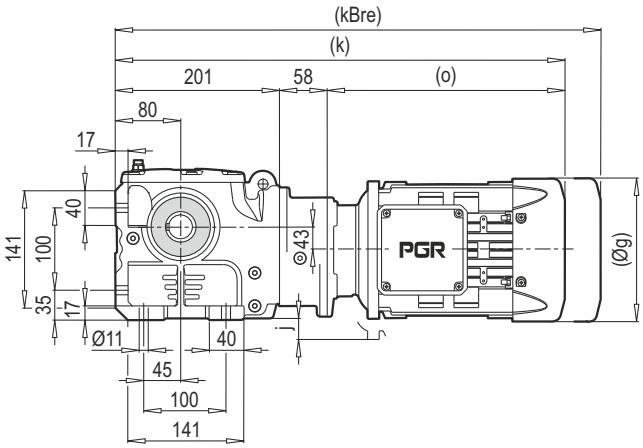
Tip / Type	PAM B5	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PSH 2063	63	140	95	115	3.5	M8	11	23	12.8	4	85
	71	160	110	130	4.0	M8	14	30	16.3	5	55
	80	200	130	165	4.0	M10	19	40	21.8	6	74
	90	200	130	165	4.0	M10	24	50	27.3	8	74
	100	250	180	215	5.0	M12	28	60	31.3	8	131.5

~ Kg	
PAM B5	PSH 2063
63	20
71	20
80	21
90	21
100	28

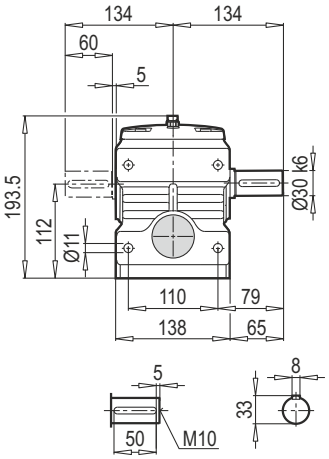
Tip / Type	PAM B14	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PSH 2063	63	90	60	75	4.0	6	11	23	12.8	4	60
	71	105	70	85	4.0	7	14	30	16.3	5	55
	80	120	80	100	4.0	7	19	40	21.8	6	74
	90	140	95	115	4.0	9	24	50	27.3	8	74
	100	160	110	130	5.0	9	28	60	31.3	8	75

~ Kg	
PAM B14	PSH 2063
63	19
71	19
80	20
90	20
100	21

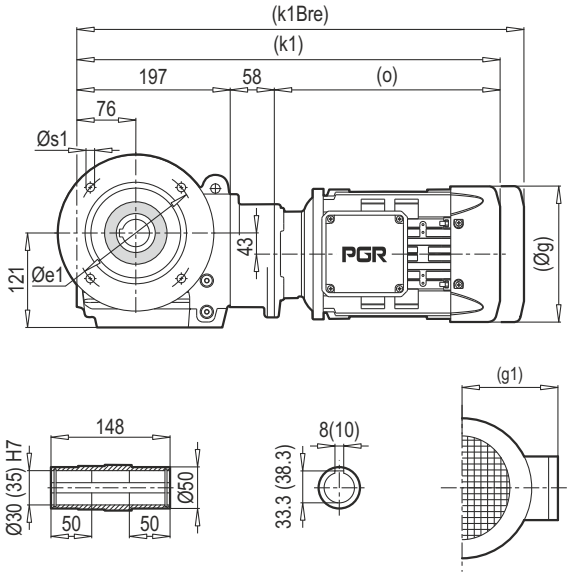
PSH 3063 TMA



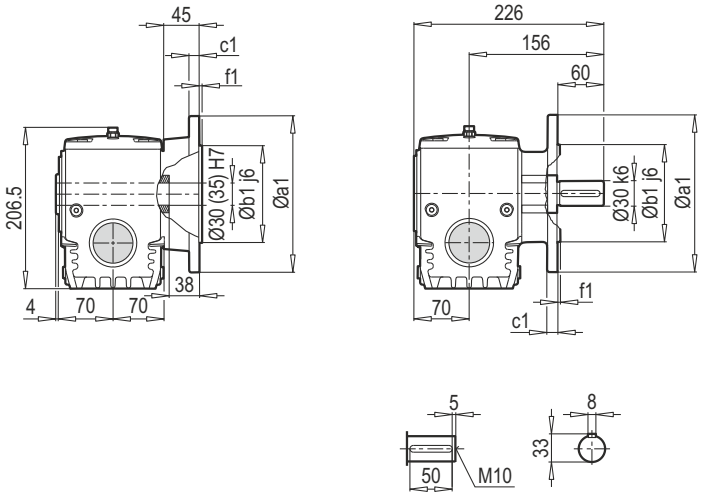
PSH 3063 ÇMA



PSH 3063 DG/B5



PSH 3063 TMG/B5



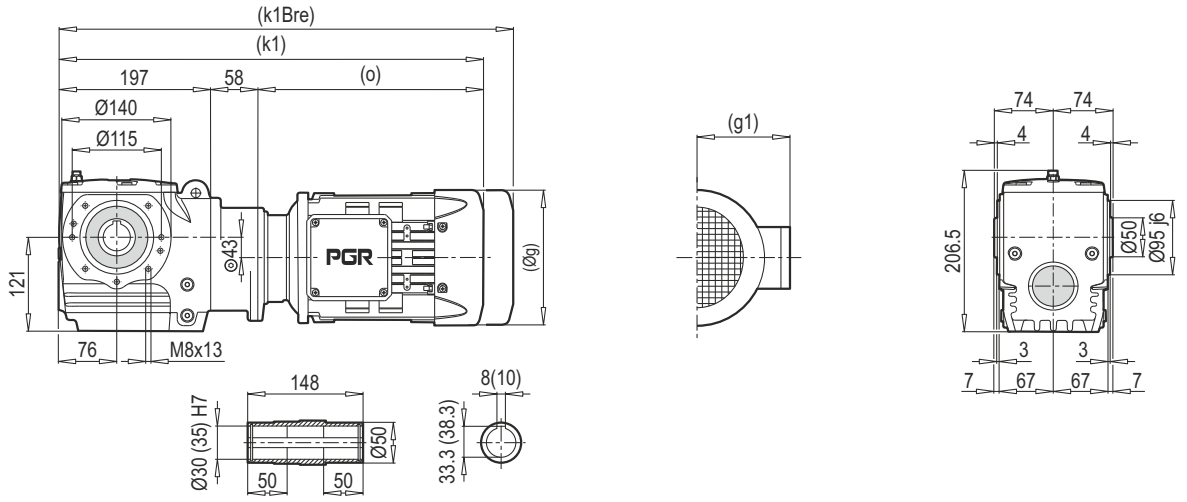
a1	b1	c1	e1	f1	s1
200	130	12	165	3.5	4 x 11

a1	b1	c1	e1	f1	s1
200	130	12	165	3.5	4 x 11

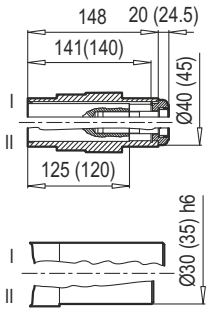
	63 M	71 M					
g	124	140					
g1	111	119					
k/k1	457 / 453	499 / 495					
kBre/k1Bre	509 / 505	559 / 555					
o	198	240					
j	–	3.5					

Not: (...) İşaretli olan ölçüler motor markasına göre farklılık gösterir. / Note: The dimensions which have (...) sign vary depending on the motor brand.

PSH 3063 DG/B14

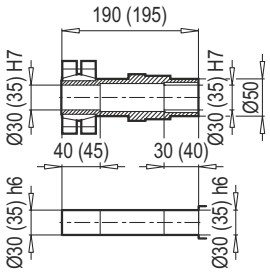


PSH 3063 DG/Ç

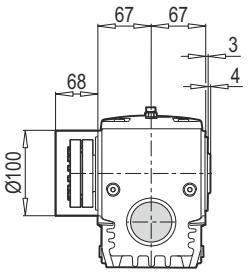


43 - 44

PSH 3063 DG/KS



PSH 3063 DG/KS/KK

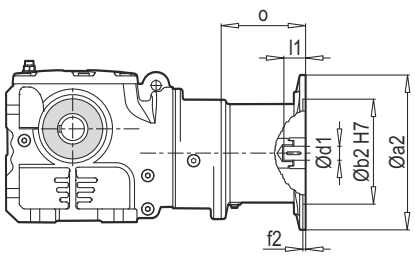


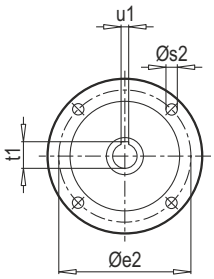
Tip/Type	Konik sıktırma / Shrink disc 41 Mamax (Nm)	s_{h6}	s_{f6}	Altıköşe başlı civata / Hexagonal screw DIN 931 / DIN 933* 10.9Vz dxl	Zs	MA (Nm)
KS 30/40	383	2.6	2.2	M6x35*	8	12
KS 35/46	383	3.0	3.2	M6x35*	10	12

	63 M	71 M					
g	124	140					
g1	111	119					
k1	453	495					
k1Bre	505	555					
o	198	240					

Not: (...) İşaretli olan ölçüler motor markasına göre farklılık gösterir. / Note: The dimensions which have (...) sign vary depending on the motor brand.

PSH 3063 IEC

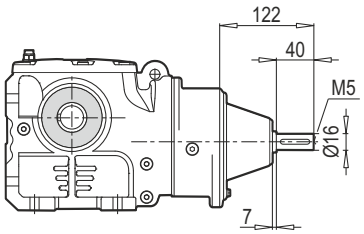


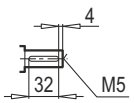


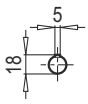
Tip / Type	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PSH 3063	63	140	95	115	3.5	M8	11	23	12.8	4	85
	71	160	110	130	4.0	M8	14	30	16.3	5	89

~ Kg	
IEC	PSH 3063
63	28
71	29

PSH 3063 W

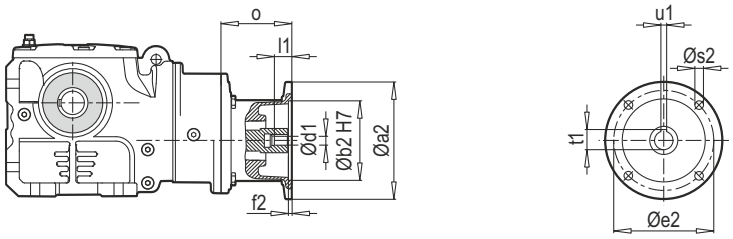






W ~ Kg	
PSH 3063	27

PSH 3063 PAM B5/B14



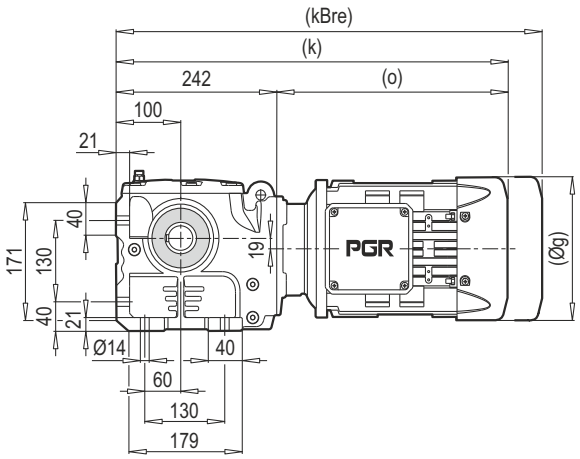
Tip / Type	PAM B5	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PSH 3063	63	140	95	115	3.5	M8	11	23	12.8	4	85
	71	160	110	130	4.0	M8	14	30	16.3	5	55

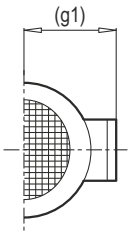
~ Kg	
PAM B5	PSH 3063
63	25
71	25

Tip / Type	PAM B14	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PSH 3063	63	90	60	75	4.0	6	11	23	12.8	4	85
	71	105	70	85	4.0	7	14	30	16.3	5	55

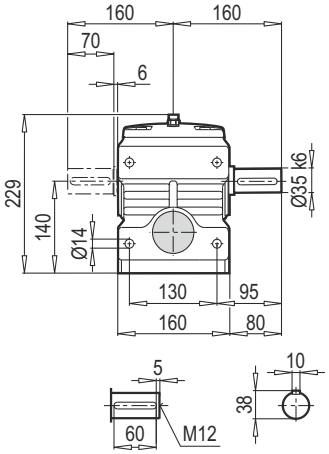
~ Kg	
PAM B14	PSH 3063
63	24
71	24

PSH 2080 TMA

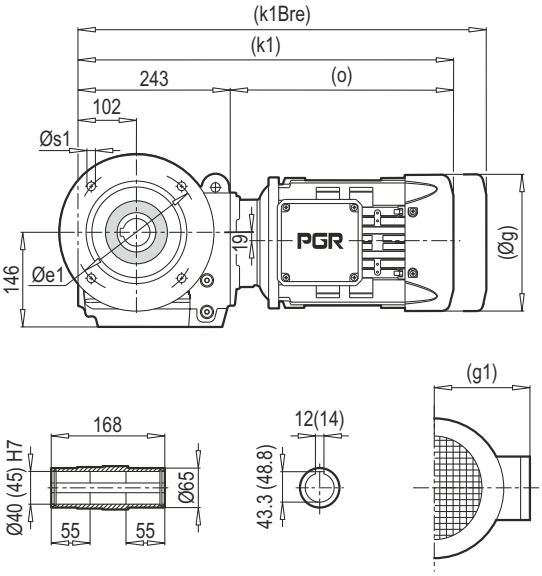




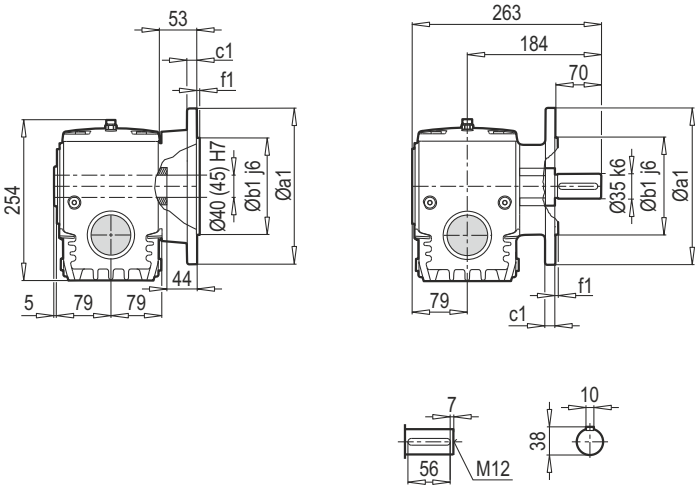
PSH 2080 ÇMA



PSH 2080 DG/B5



PSH 2080 TMG/B5



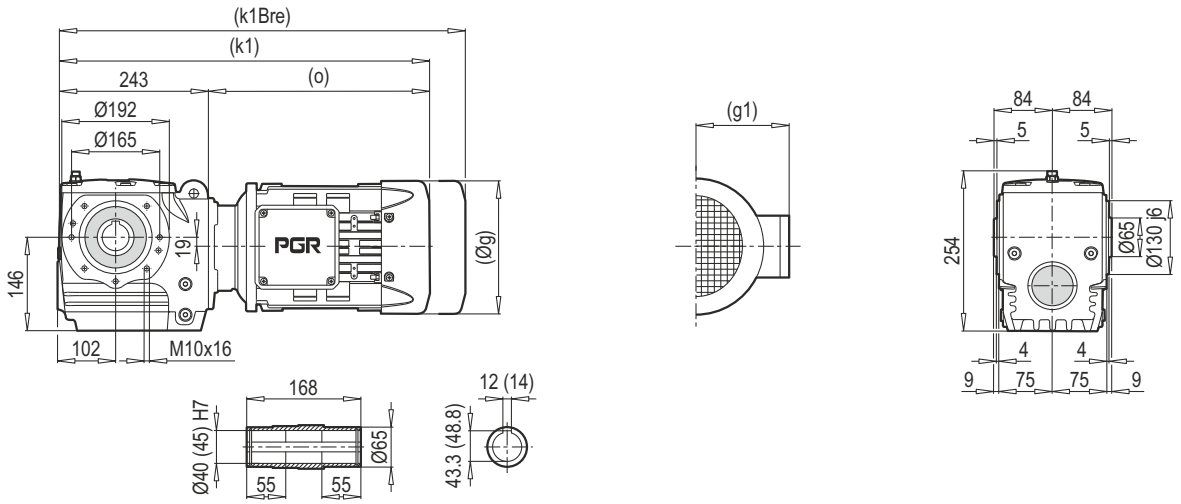
a1	b1	c1	e1	f1	s1
250	180	15	215	4	4 x 14
300	230	20	265	4	4 x 14

a1	b1	c1	e1	f1	s1
200	130	12	165	3.5	4 x 11

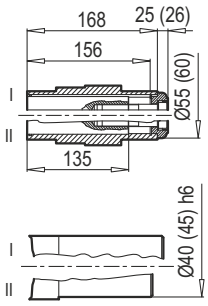
	63 M	71 M	80 M	90 S	90 L	100 L	112 M
g	124	140	159	193	193	217	232
g1	111	119	127	151	151	160	168
k/k1	440 / 441	482 / 483	509 / 510	532 / 533	552 / 553	580 / 581	625 / 626
kBre/k1Bre	492 / 493	542 / 543	571 / 572	605 / 606	625 / 626	661 / 662	705 / 706
o	198	240	267	290	310	338	383

Not: (...) İşaretli olan ölçüler motor markasına göre farklılık gösterir. / Note: The dimensions which have (...) sign vary depending on the motor brand.

PSH 2080 DG/B14

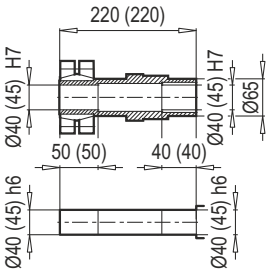


PSH 2080 DG/Ç

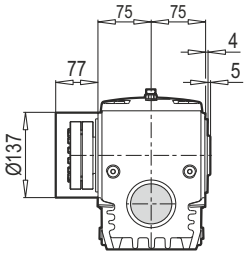


43 - 44

PSH 2080 DG/KS



PSH 2080 DG/KS/KK

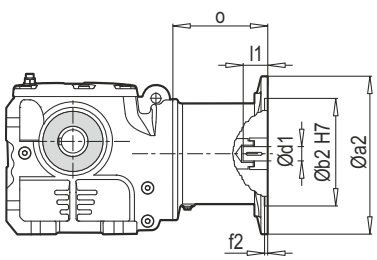


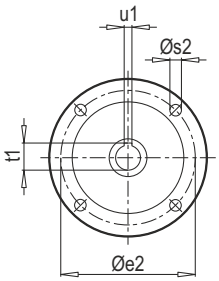
Tip/Type	Konik sıktırma / Shrink disc 41 Mamax (Nm)	s h6	s f6	Altıköşe başlı civata / Hexagonal screw DIN 931 / DIN 933* 10.9Vz dxl	Zs	MA (Nm)
KS 40/55	779	3.0	2.6	M8x40	8	30
KS 45/55	779	4.1	3.8	M8x40	8	30

	63 M	71 M	80 M	90 S	90 L	100 L	112 M
g	124	140	159	193	193	217	232
g1	111	119	127	151	151	160	168
k1	441	483	510	533	553	581	626
k1Bre	493	543	572	606	626	662	706
o	198	240	267	290	310	338	383

Not: (...) İşaretli olan ölçüler motor markasına göre farklılık gösterir. / Note: The dimensions which have (...) sign vary depending on the motor brand.

PSH 2080 IEC

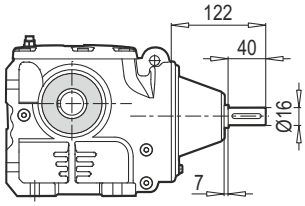


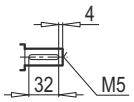


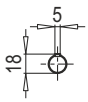
Tip / Type	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PSH 2080	63	140	95	115	3.5	M8	11	23	12.8	4	85
	71	160	110	130	4.0	M8	14	30	16.3	5	89
	80	200	130	165	4.0	M10	19	40	21.8	6	105
	90	200	130	165	4.0	M10	24	50	27.3	8	105
	100	250	180	215	5.0	M12	28	60	31.3	8	130
	112	250	180	215	5.0	M12	28	60	31.3	8	130

~ Kg	
IEC	PSH 2080
63	33
71	34
80	37
90	37
100	44
112	44

PSH 2080 W

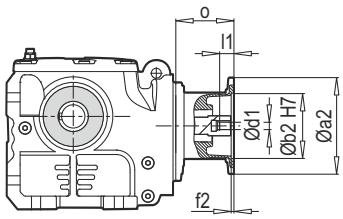


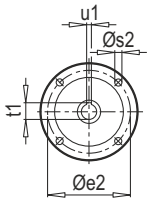




W ~ Kg	
PSH 2080	32

PSH 2080 PAM B5/B14





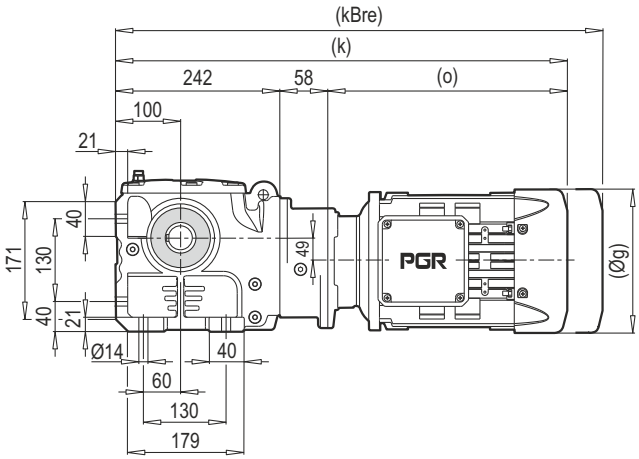
Tip / Type	PAM B5	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PSH 2080	63	140	95	115	3.5	M8	11	23	12.8	4	85
	71	160	110	130	4.0	M8	14	30	16.3	5	55
	80	200	130	165	4.0	M10	19	40	21.8	6	74
	90	200	130	165	4.0	M10	24	50	27.3	8	74
	100	250	180	215	5.0	M12	28	60	31.3	8	131.5
	112	250	180	215	5.0	M12	28	60	31.3	8	131.5

~ Kg	
PAM B5	PSH 2080
63	30
71	30
80	31
90	31
100	38
112	38

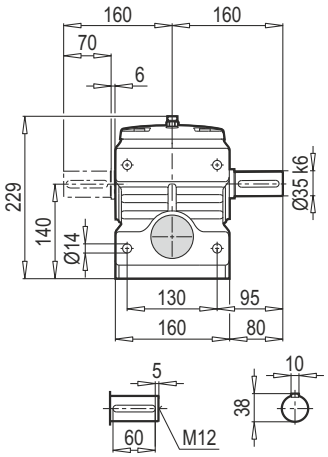
Tip / Type	PAM B14	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PSH 2080	63	90	60	75	4.0	6	11	23	12.8	4	60
	71	105	70	85	4.0	7	14	30	16.3	5	55
	80	120	80	100	4.0	7	19	40	21.8	6	74
	90	140	95	115	4.0	9	24	50	27.3	8	74
	100	160	110	130	5.0	9	28	60	31.3	8	75
	112	160	110	130	5.0	9	28	60	31.3	8	75

~ Kg	
PAM B14	PSH 2080
63	29
71	29
80	30
90	30
100	31
112	31

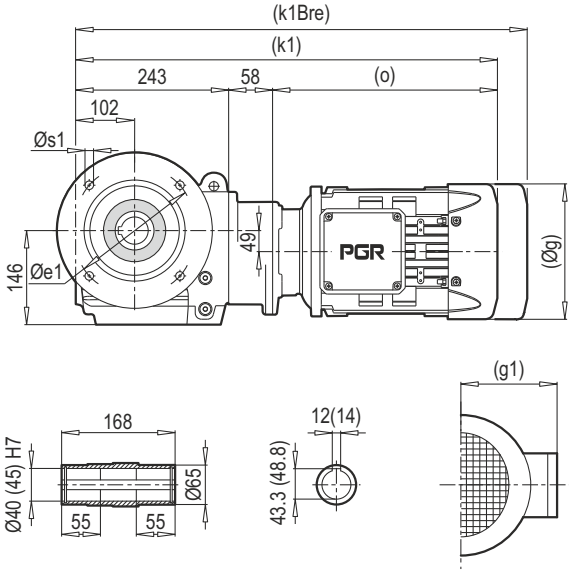
PSH 3080 TMA



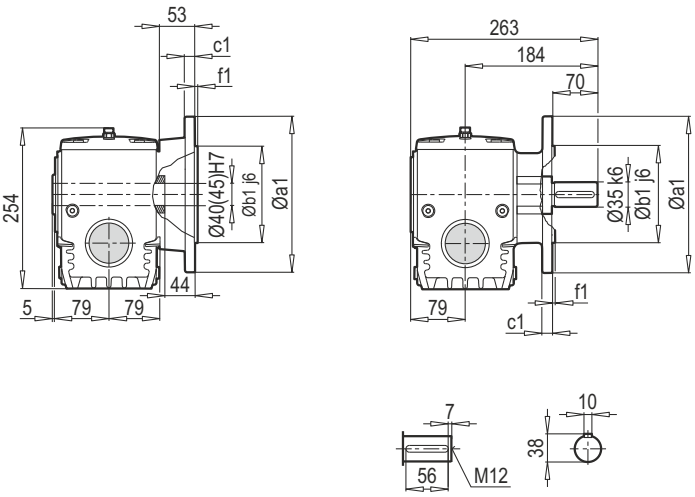
PSH 3080 ÇMA



PSH 3080 DG/B5



PSH 3080 TMG/B5



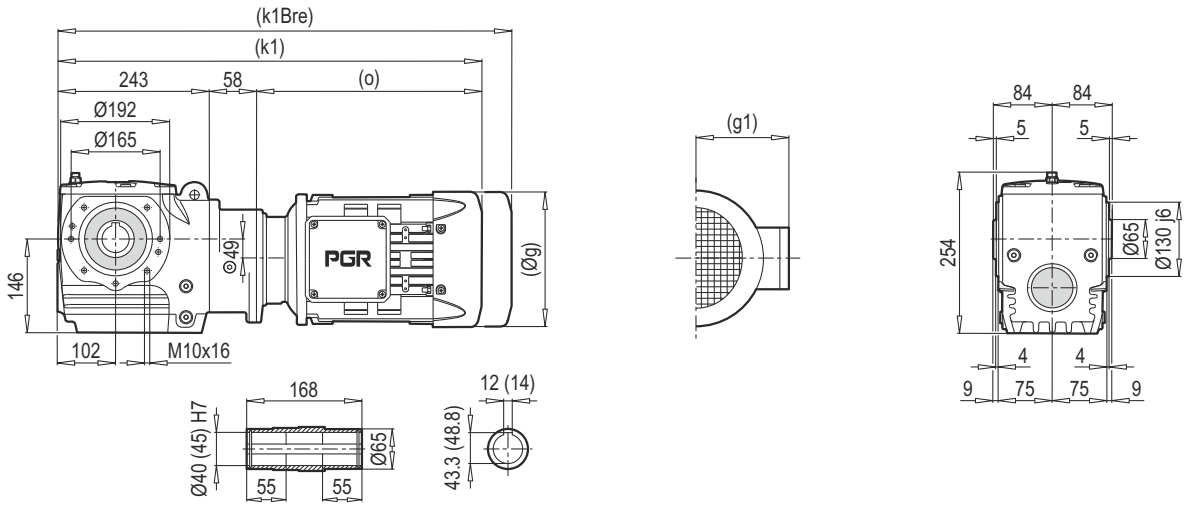
a1	b1	c1	e1	f1	s1
250	180	15	215	4	4 x 14
300	230	20	265	4	4 x 14

a1	b1	c1	e1	f1	s1
200	130	12	165	3.5	4 x 11

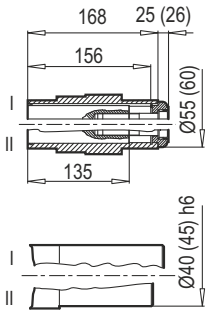
	63 M	71 M					
g	124	140					
g1	111	119					
k/k1	498 / 499	540 / 541					
kBre/k1Bre	550 / 551	600 / 601					
o	198	240					

Not: (...) İşaretli olan ölçüler motor markasına göre farklılık gösterir. / Note: The dimensions which have (...) sign vary depending on the motor brand.

PSH 3080 DG/B14

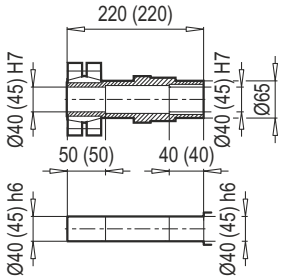


PSH 3080 DG/Ç

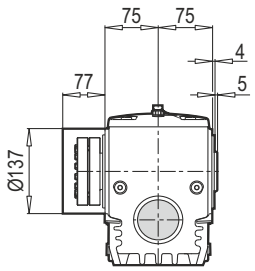


43 - 44

PSH 3080 DG/KS



PSH 3080 DG/KS/KK

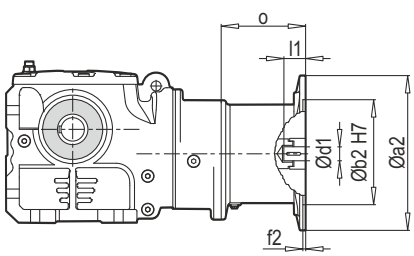


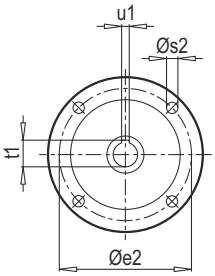
Tip/Type	Konik sıktırma / Shrink disc 41 Mamax (Nm)	s_{h6}	s_{f6}	Altıköşe başlı civata / Hexagonal screw DIN 931 / DIN 933* 10.9Vz dxl	Zs	MA (Nm)
KS 40/55	779	3.0	2.6	M8x40	8	30
KS 45/55	779	4.1	3.8	M8x40	8	30

	63 M	71 M					
g	124	140					
g1	111	119					
k1	499	541					
k1Bre	551	601					
o	198	240					

Not: (...) İşaretli olan ölçüler motor markasına göre farklılık gösterir. / Note: The dimensions which have (...) sign vary depending on the motor brand.

PSH 3080 IEC

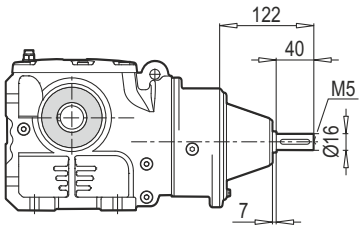


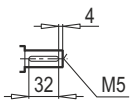


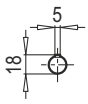
Tip / Type	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PSH 3080	63	140	95	115	3.5	M8	11	23	12.8	4	85
	71	160	110	130	4.0	M8	14	30	16.3	5	89

~ Kg	
IEC	PSH 3080
63	38
71	39

PSH 3080 W

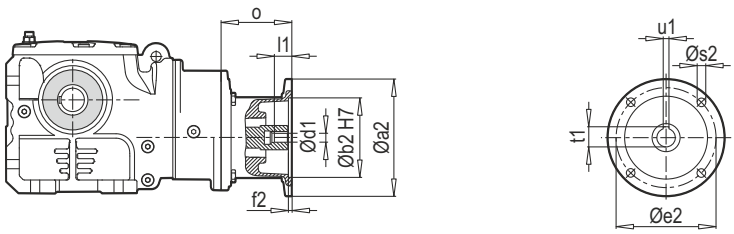






W ~ Kg	
PSH 3080	37

PSH 3080 PAM B5/B14



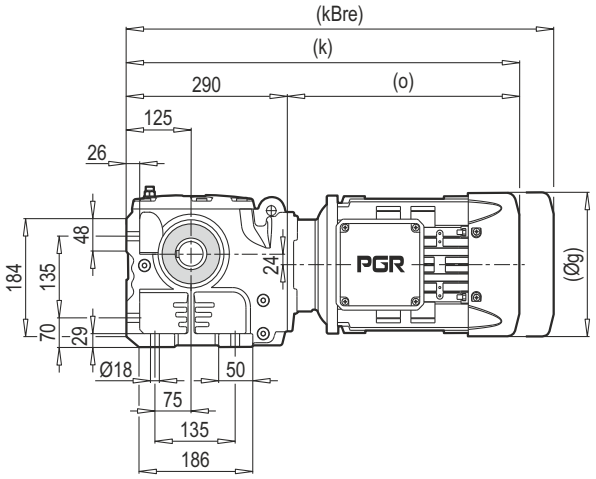
Tip / Type	PAM B5	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PSH 3080	63	140	95	115	3.5	M8	11	23	12.8	4	85
	71	160	110	130	4.0	M8	14	30	16.3	5	55

~ kg	
PAM B5	PSH 3080
63	35
71	35

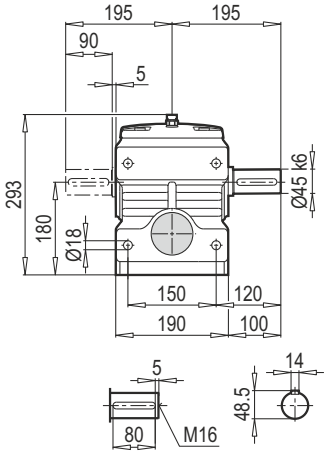
Tip / Type	PAM B14	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PSH 3080	63	90	60	75	4.0	6	11	23	12.8	4	60
	71	105	70	85	4.0	7	14	30	16.3	5	55

~ kg	
PAM B14	PSH 3080
63	34
71	34

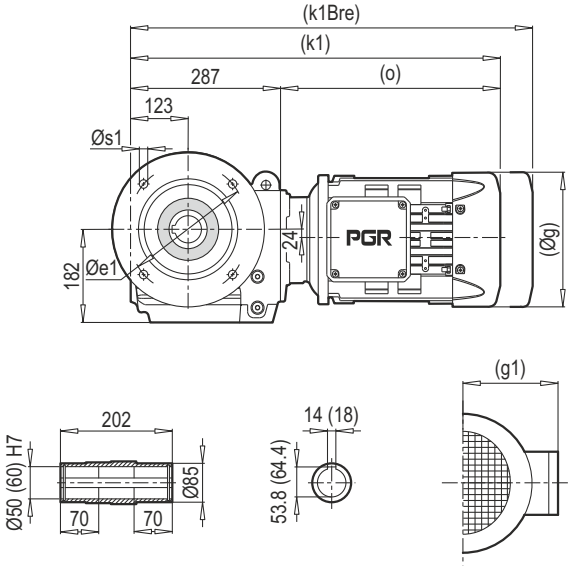
PSH 2100 TMA



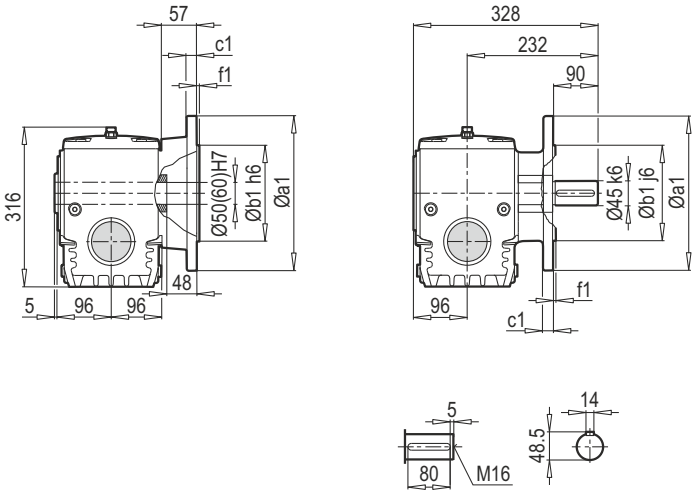
PSH 2100 ÇMA



PSH 2100 DG/B5



PSH 2100 TMG/B5



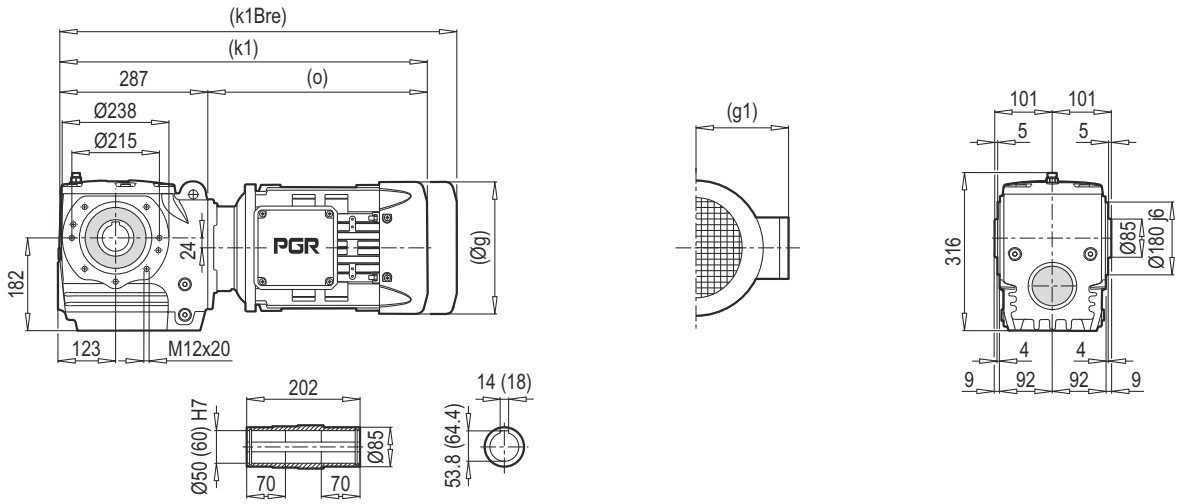
a1	b1	c1	e1	f1	s1
350	250	20	300	5	4 x 18

a1	b1	c1	e1	f1	s1
250	180	16	215	4	4 x 14

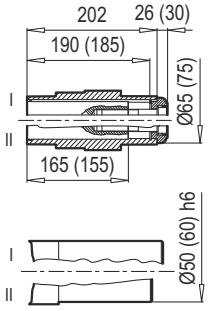
	71 M	80 M	90 S	90 L	100 L	112 M	132 S	132 M
g	140	159	193	193	217	232	279	279
g1	119	127	151	151	160	168	182	182
k/k1	526 / 523	552 / 549	575 / 572	595 / 592	623 / 620	668 / 665	675 / 672	710 / 707
kBre/k1Bre	586 / 583	614 / 611	648 / 645	668 / 665	704 / 701	748 / 745	783 / 780	851 / 848
o	236	262	285	305	333	378	385	420

Not: (...) İşaretli olan ölçüler motor markasına göre farklılık gösterir. / Note: The dimensions which have (...) sign vary depending on the motor brand.

PSH 2100 DG/B14

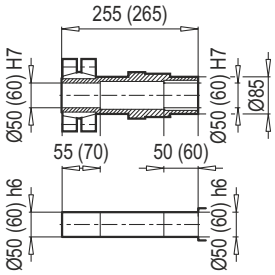


PSH 2100 DG/Ç

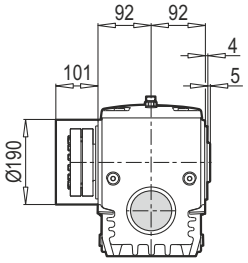


43 - 44

PSH 2100 DG/KS



PSH 2100 DG/KS/KK

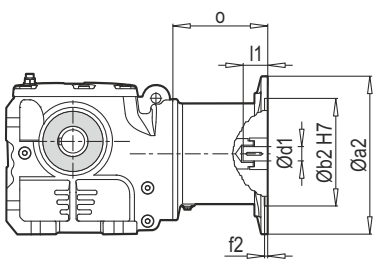


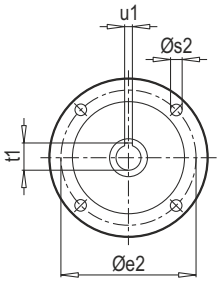
Tip/Type	Konik sıktırma / Shrink disc 41 Mamax (Nm)	s h6	s f6	Altıköşe başlı civata / Hexagonal screw DIN 931 / DIN 933* 10.9Vz dxl	Zs	MA (Nm)
KS 50/62	1604	2.7	2.6	M8x40	10	30
KS 60/76	1604	5.1	4.7	M10x50	10	59

	71 M	80 M	90 S	90 L	100 L	112 M	132 S	132 M
g	140	159	193	193	217	232	279	279
g1	119	127	151	151	160	168	182	182
k1	523	549	572	592	620	665	672	707
k1Bre	583	611	645	665	701	745	780	848
o	236	262	285	305	333	378	385	420

Not: (...) İşaretli olan ölçüler motor markasına göre farklılık gösterir. / Note: The dimensions which have (...) sign vary depending on the motor brand.

PSH 2100 IEC

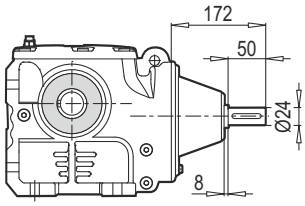


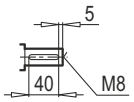


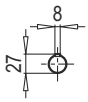
Tip / Type	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PSH 2100	71	160	110	130	4.0	M8	14	30	16.3	5	88
	80	200	130	165	4.0	M10	19	40	21.8	6	107
	90	200	130	165	4.0	M10	24	50	27.3	8	107
	100	250	180	215	5.0	M12	28	60	31.3	8	124
	112	250	180	215	5.0	M12	28	60	31.3	8	124
	132	300	230	265	5.0	M12	38	80	41.3	10	156

~ Kg	
IEC	PSH 2100
71	61
80	65
90	65
100	69
112	69
132	78

PSH 2100 W

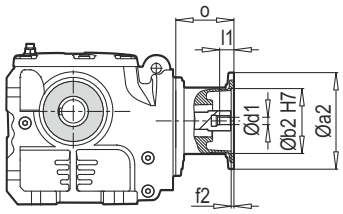


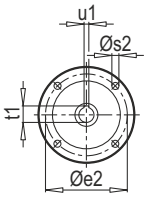




W ~ Kg	
PSH 2100	63

PSH 2100 PAM B5/B14





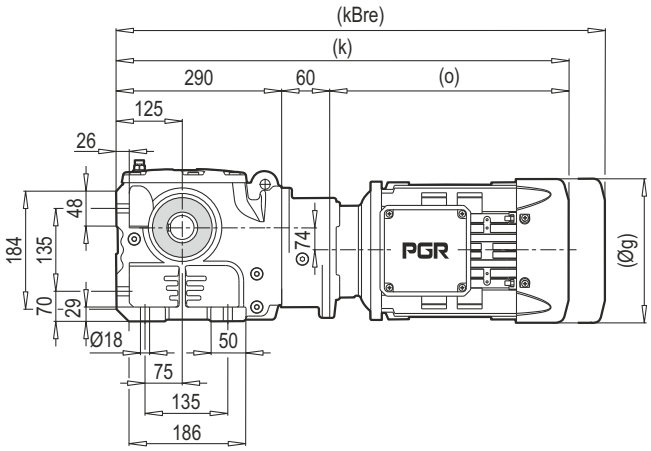
Tip / Type	PAM B5	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PSH 2100	71	160	110	130	4.0	M8	14	30	16.3	5	88
	80	200	130	165	4.0	M10	19	40	21.8	6	72
	90	200	130	165	4.0	M10	24	50	27.3	8	72
	100	250	180	215	5.0	M12	28	60	31.3	8	75
	112	250	180	215	5.0	M12	28	60	31.3	8	75
	132	300	230	265	5.0	M12	38	80	41.3	10	94

~ Kg	
PAM B5	PSH 2100
71	55.5
80	56.5
90	56.5
100	57.5
112	57.5
132	67.5

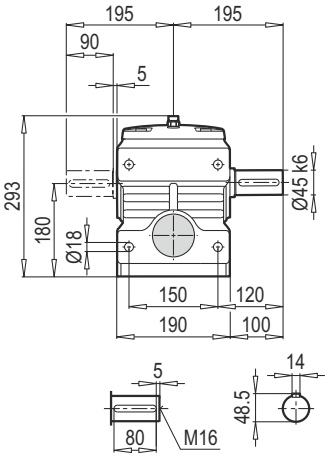
Tip / Type	PAM B14	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PSH 2100	71	105	70	85	4.0	7	14	30	16.3	5	88
	80	120	80	100	4.0	7	19	40	21.8	6	72
	90	140	95	115	4.0	9	24	50	27.3	8	72
	100	160	110	130	5.0	9	28	60	31.3	8	75
	112	160	110	130	5.0	9	28	60	31.3	8	75
	132	200	130	165	5.0	11	38	80	41.3	10	94

~ Kg	
PAM B14	PSH 2100
71	53.5
80	54.5
90	54.5
100	56.5
112	56.5
132	60.5

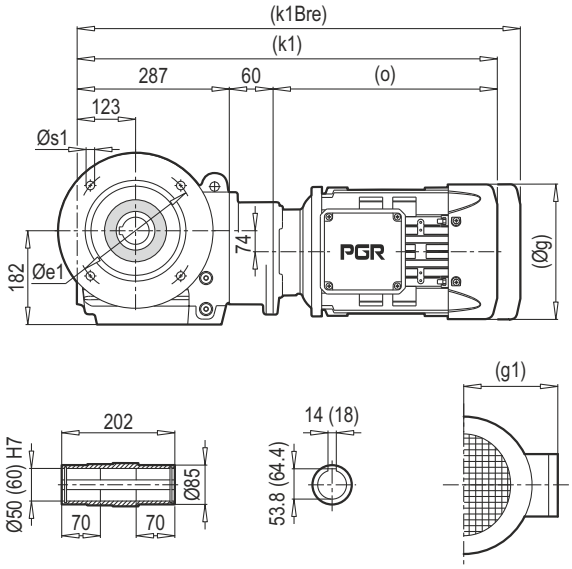
PSH 3100 TMA



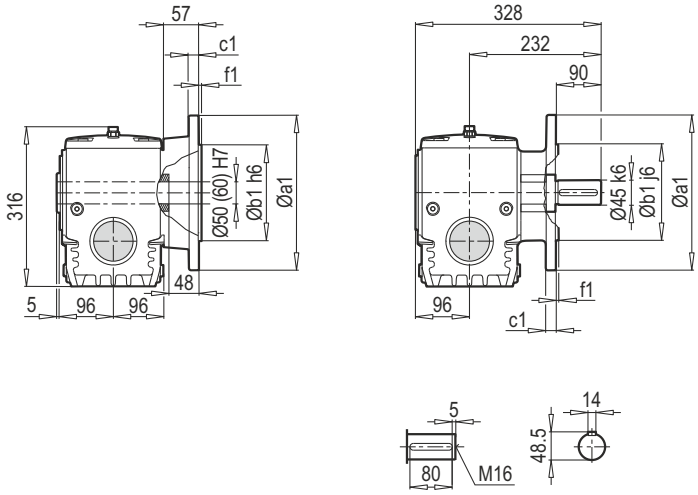
PSH 3100 ÇMA



PSH 3100 DG/B5



PSH 3100 TMG/B5



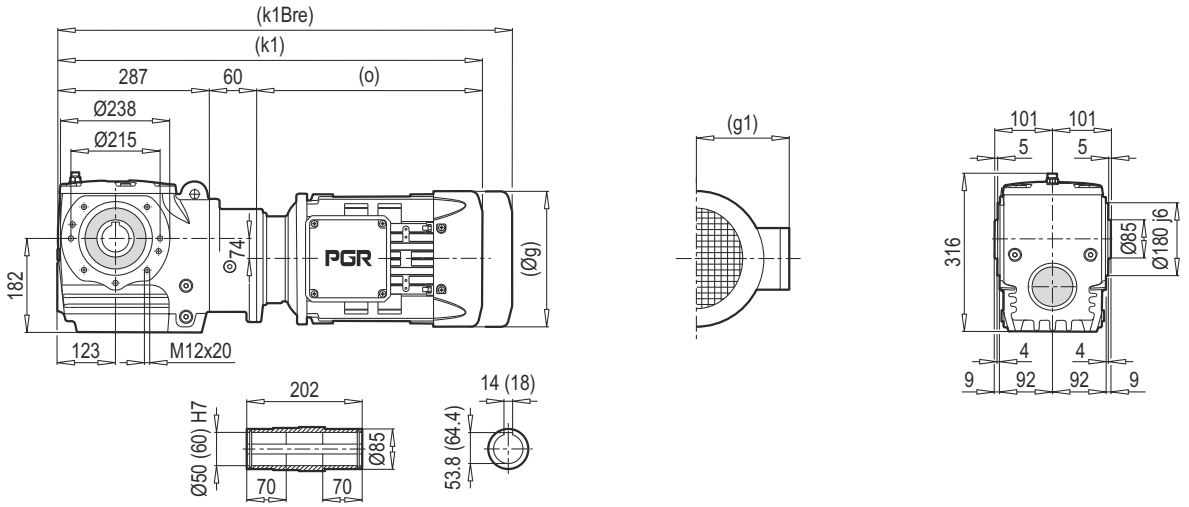
a1	b1	c1	e1	f1	s1
350	250	20	300	5	4 x 18

a1	b1	c1	e1	f1	s1
250	180	16	215	4	4 x 14

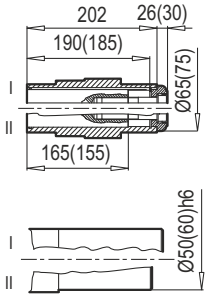
	63 M	71 M	80 M	90 S	90 L		
g	124	140	159	193	193		
g1	111	119	127	151	151		
k/k1	548 / 545	590 / 587	617 / 614	640 / 637	660 / 657		
kBre/k1Bre	600 / 597	650 / 647	679 / 676	713 / 710	733 / 730		
o	198	240	267	290	310		

Not: (...) İşaretli olan ölçüler motor markasına göre farklılık gösterir. / Note: The dimensions which have (...) sign vary depending on the motor brand.

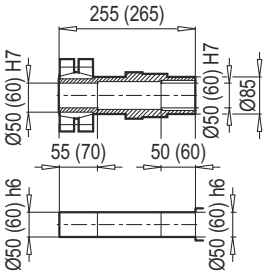
PSH 3100 DG/B14



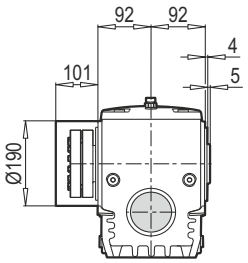
PSH 3100 DG/Ç



PSH 3100 DG/KS



PSH 3100 DG/KS/KK



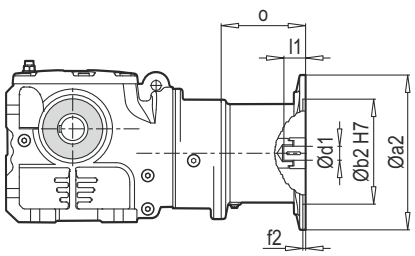
43 - 44

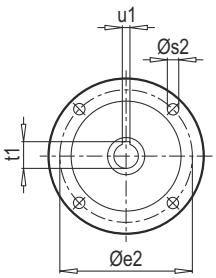
Tip/Type	Konik sıktırma / Shrink disc 41 Mamax (Nm)	s^{h6}	s^{f6}	Altıköşe başlı civata / Hexagonal screw DIN 931 / DIN 933* 10.9Vz dxl	Zs	MA (Nm)
KS 50/62	1604	2.7	2.6	M8x40	10	30
KS 60/76	1604	5.1	4.7	M10x50	10	59

	63 M	71 M	80 M	90 S	90 L		
g	124	140	159	193	193		
g1	111	119	127	151	151		
k1	545	587	614	637	657		
k1Bre	597	647	676	710	730		
o	198	240	267	290	310		

Not: (...) İşaretli olan ölçüler motor markasına göre farklılık gösterir. / Note: The dimensions which have (...) sign vary depending on the motor brand.

PSH 3100 IEC

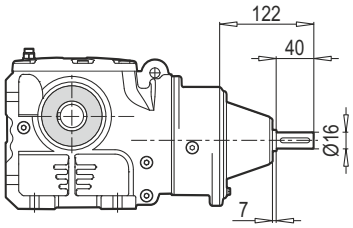


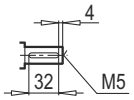


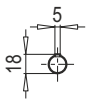
Tip / Type	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PSH 3100	63	140	95	115	3.5	M8	11	23	12.8	4	85
	71	160	110	130	4.0	M8	14	30	16.3	5	89
	80	200	130	165	4.0	M10	19	40	21.8	6	105
	90	200	130	165	4.0	M10	24	50	27.3	8	105

~ Kg	
IEC	PSH 3100
63	66
71	67
80	70
90	70

PSH 3100 W

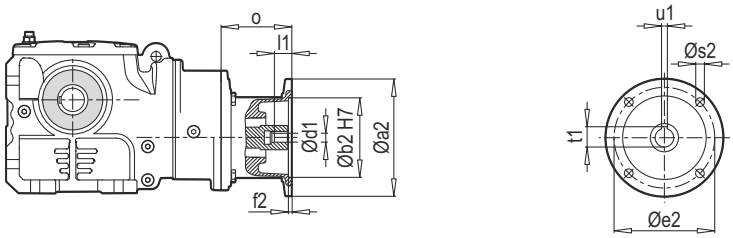






W ~ Kg	
PSH 3100	65

PSH 3100 PAM B5/B14



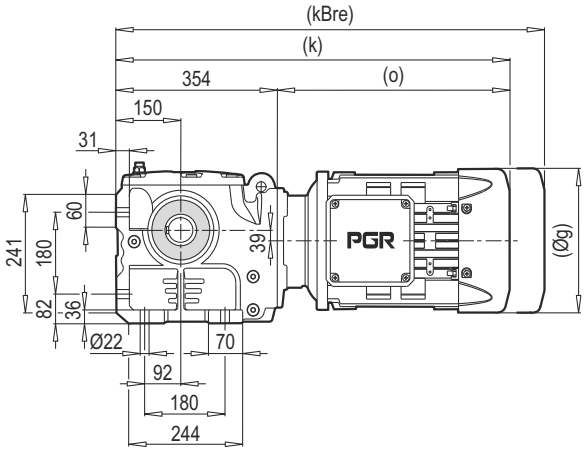
Tip / Type	PAM B5	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PSH 3100	63	140	95	115	3.5	M8	11	23	12.8	4	85
	71	160	110	130	4.0	M8	14	30	16.3	5	55
	80	200	130	165	4.0	M10	19	40	21.8	6	74
	90	200	130	165	4.0	M10	24	50	27.3	8	74

~ Kg	
PAM B5	PSH 3100
63	60.5
71	60.5
80	61.5
90	61.5

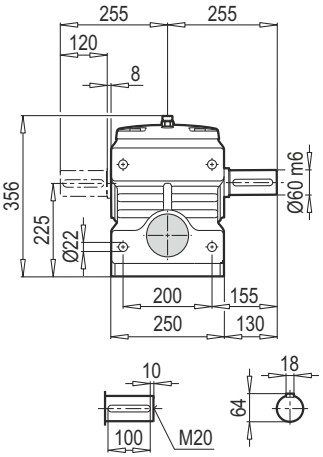
Tip / Type	PAM B14	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PSH 3100	63	90	60	75	4.0	6	11	23	12.8	4	60
	71	105	70	85	4.0	7	14	30	16.3	5	55
	80	120	80	100	4.0	7	19	40	21.8	6	74
	90	140	95	115	4.0	9	24	50	27.3	8	74

~ Kg	
PAM B14	PSH 3100
63	59.5
71	59.5
80	60.5
90	60.5

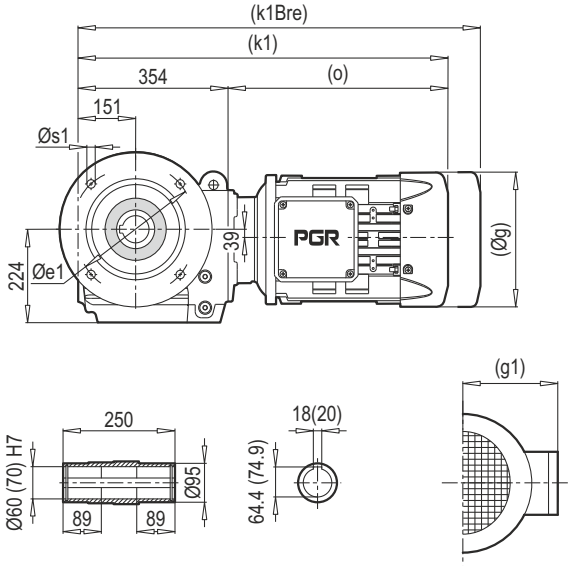
PSH 2125 TMA



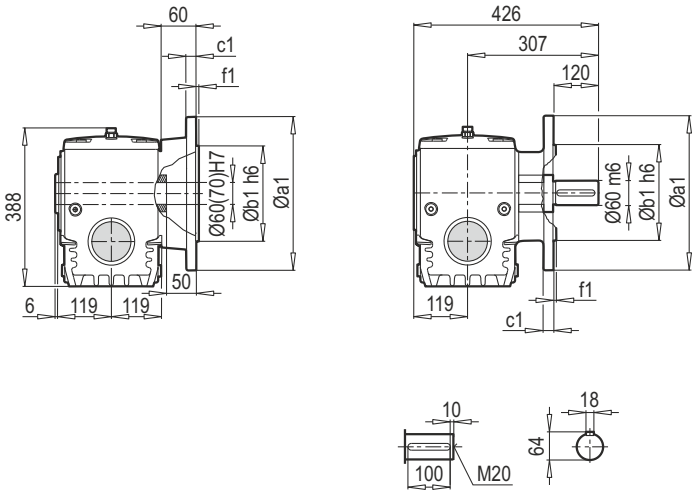
PSH 2125 ÇMA



PSH 2125 DG/B5



PSH 2125 TMG/B5



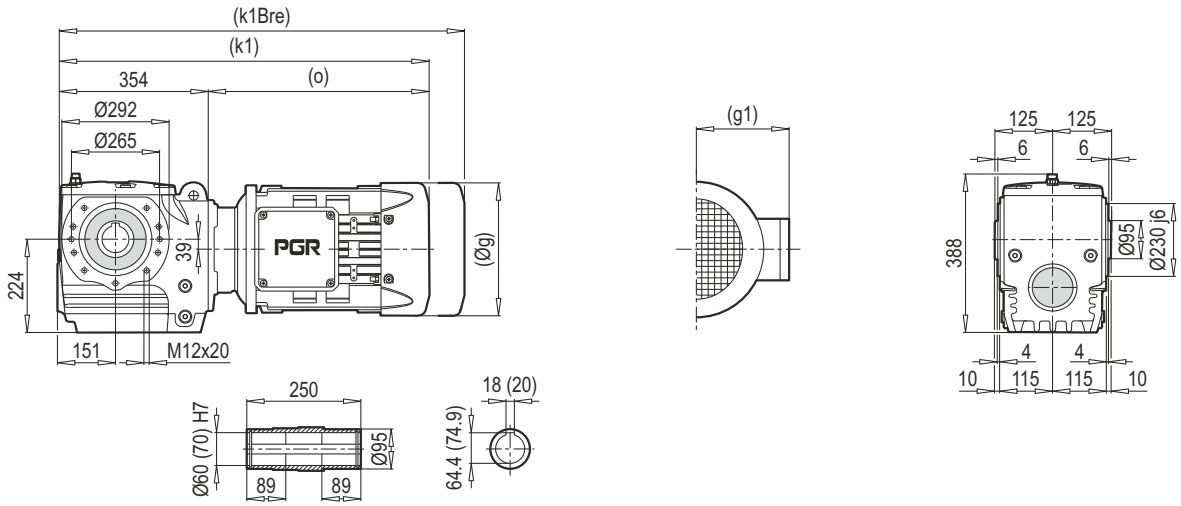
a1	b1	c1	e1	f1	s1
400	300	20	350	5	4 x 18
450	350	22	400	5	8 x 18

a1	b1	c1	e1	f1	s1
350	250	20	300	5	4 x 18

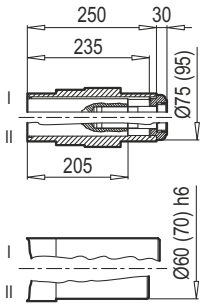
	90 S	90 L	100 L	112 M	132 S	132 M	160 M/L
g	193	193	217	232	279	279	323
g1	151	151	160	168	182	182	200
k/k1	619 / 619	639 / 639	667 / 667	712 / 712	719 / 719	754 / 754	859 / 859
kBre/k1Bre	692 / 692	712 / 712	748 / 748	792 / 792	827 / 827	895 / 895	1011 / 1011
o	265	285	313	358	365	400	505

Not: (...) İşaretli olan ölçüler motor markasına göre farklılık gösterir. / Note: The dimensions which have (...) sign vary depending on the motor brand.

PSH 2125 DG/B14

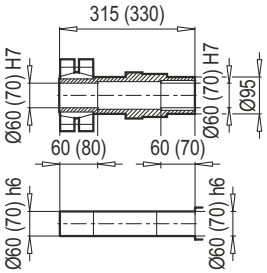


PSH 2125 DG/Ç

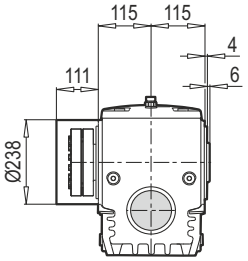


43 - 44

PSH 2125 DG/KS



PSH 2125 DG/KS/KK

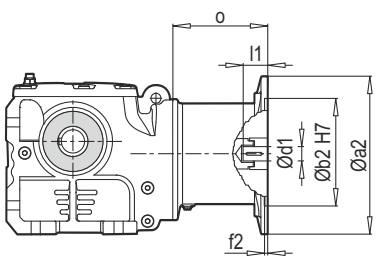


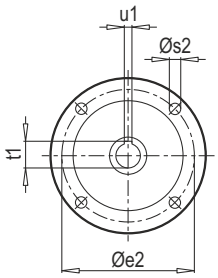
Tip/Type	Konik sıktırma / Shrink disc 41 Mamax (Nm)	s_{h6}	s_{f6}	Altıköşe başlı civata / Hexagonal screw DIN 931 / DIN 933* 10.9Vz dxl	Zs	MA (Nm)
KS 60/76	3120	2.6	2.4	M10x50	10	59
KS 70/90	3120	4.4	4.1	M12x70*	10	100

	90 S	90 L	100 L	112 M	132 S	132 M	160 M/L
g	193	193	217	232	279	279	323
g1	151	151	160	168	182	182	200
k1	619	639	667	712	719	754	859
k1Bre	692	712	748	792	827	895	1011
o	265	285	313	358	365	400	505

Not: (...) İşaretli olan ölçüler motor markasına göre farklılık gösterir. / Note: The dimensions which have (...) sign vary depending on the motor brand.

PSH 2125 IEC

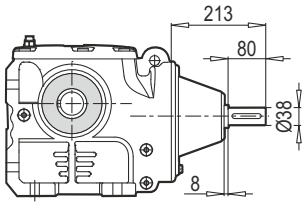


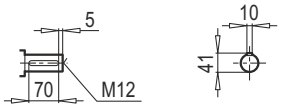


Tip / Type	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PSH 2125	90	200	130	165	4.0	M10	24	50	27.3	8	109
	100	250	180	215	5.0	M12	28	60	31.3	8	133
	112	250	180	215	5.0	M12	28	60	31.3	8	133
	132	300	230	265	5.0	M12	38	80	41.3	10	190
	160	350	250	300	6.0	M16	42	110	45.3	12	194

~ Kg	
IEC	PSH 2125
90	107
100	114
112	114
132	128
160	138

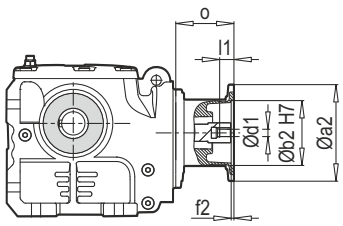
PSH 2125 W

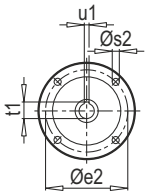




W ~ Kg	
PSH 2125	112

PSH 2125 PAM B5/B14





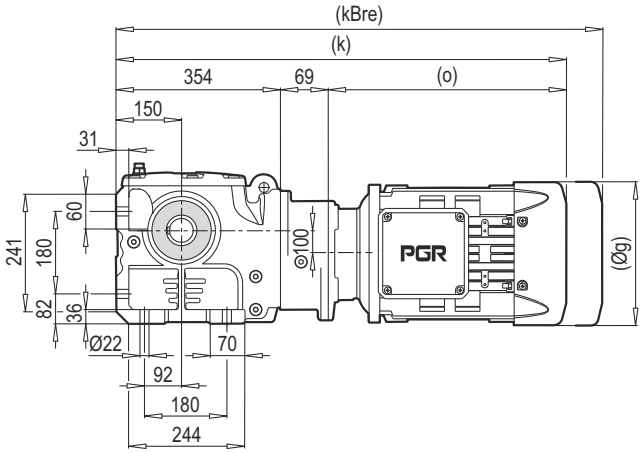
Tip / Type	PAM B5	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PSH 2125	90	200	130	165	4.0	M10	24	50	27.3	8	72
	100	250	180	215	5.0	M12	28	60	31.3	8	75
	112	250	180	215	5.0	M12	28	60	31.3	8	75
	132	300	230	265	5.0	M12	38	80	41.3	10	94
	160	350	250	300	6.0	M16	42	110	45.3	12	120

~ Kg	
PAM B5	PSH 2125
90	96
100	97
112	97
132	106
160	114

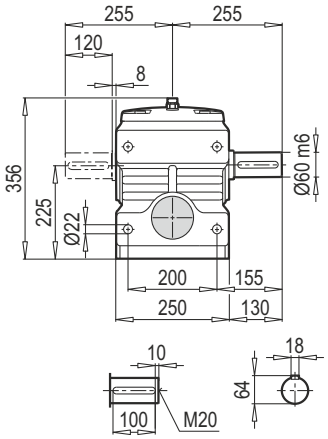
Tip / Type	PAM B14	Øa2	Øb2 95	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PSH 2125	90	140	110	115	4.0	9	24	50	27.3	8	72
	100	160	110	130	5.0	9	28	60	31.3	8	75
	112	160	130	130	5.0	9	28	60	31.3	8	75
	132	200		165	5.0	11	38	80	41.3	10	94

~ Kg	
PAM B14	PSH 2125
90	95
100	96
112	96
132	101

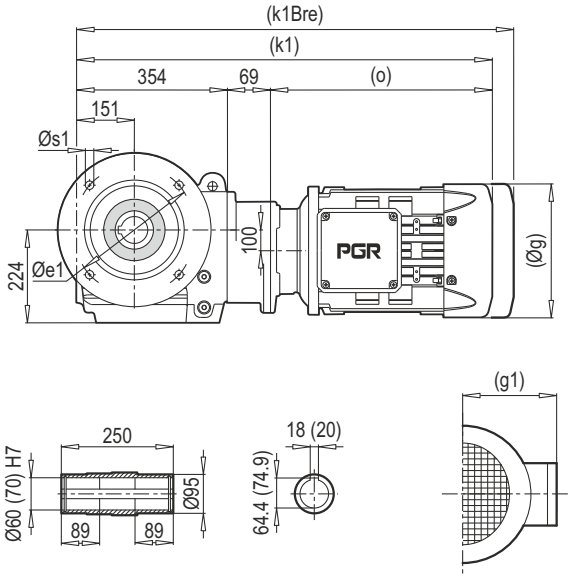
PSH 3125 TMA



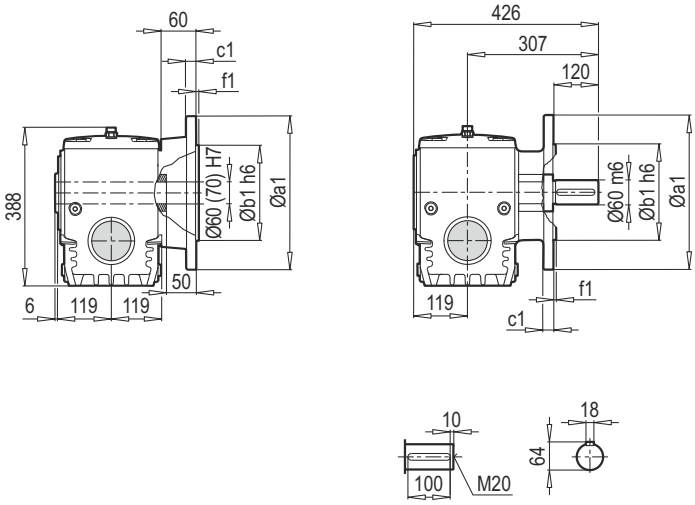
PSH 3125 ÇMA



PSH 3125 DG/B5



PSH 3125 TMG/B5



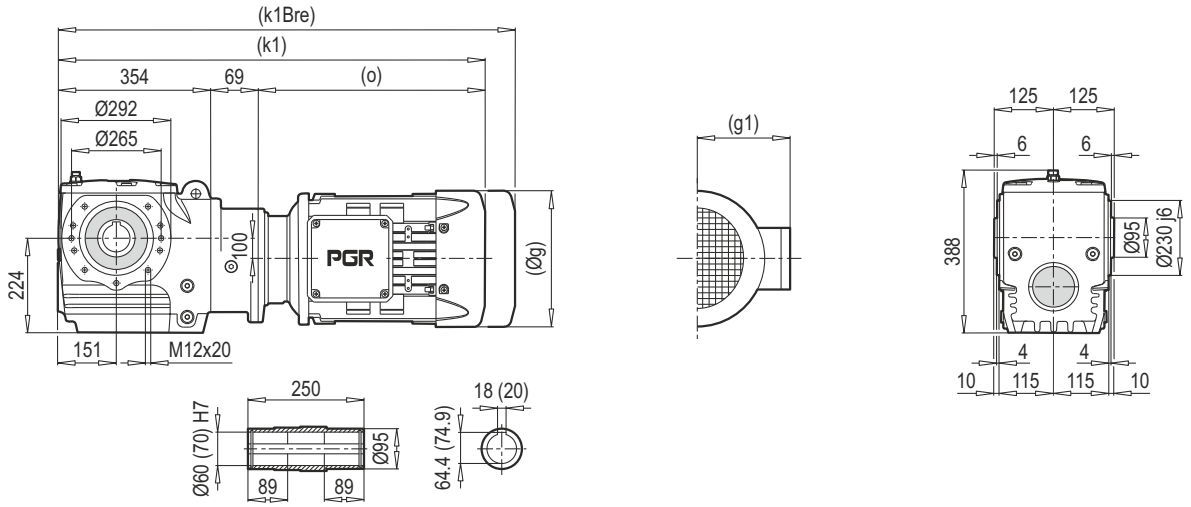
a1	b1	c1	e1	f1	s1
400	300	20	350	5	4 x 18
450	350	22	400	5	8 x 18

a1	b1	c1	e1	f1	s1
350	250	20	300	5	4 x 18

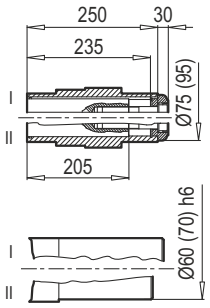
	71 M	80 M	90 S	90 L	100 L		
g	140	159	193	193	217		
g1	119	127	151	151	160		
k/k1	659 / 659	685 / 685	708 / 708	728 / 728	756 / 756		
kBre/k1Bre	719 / 719	747 / 747	781 / 781	801 / 801	837 / 837		
o	236	262	285	305	333		

Not: (...) İşaretli olan ölçüler motor markasına göre farklılık gösterir. / Note: The dimensions which have (...) sign vary depending on the motor brand.

PSH 3125 DG/B14

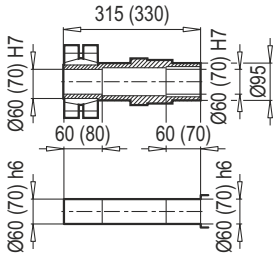


PSH 3125 DG/Ç

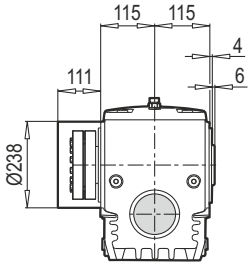


43 - 44

PSH 3125 DG/KS



PSH 3125 DG/KS/KK

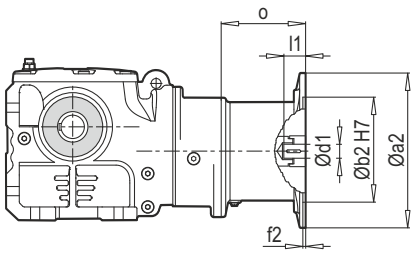


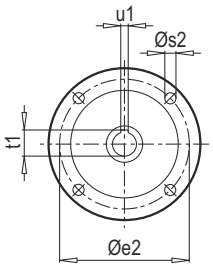
Tip/Type	Konik sıktırma / Shrink disc 41			Altıköşe başlı civata / Hexagonal screw DIN 931 / DIN 933* 10.9Vz		
	Mamax (Nm)	sh6	sf6	dxl	Zs	MA (Nm)
KS 60/76	3120	2.6	2.4	M10x50	10	59
KS 70/90	3120	4.4	4.1	M12x70*	10	100

	71 M	80 M	90 S	90 L	100 L		
g	140	159	193	193	217		
g1	119	127	151	151	160		
k1	659	685	708	728	756		
k1Bre	719	747	781	801	837		
o	236	262	285	305	333		

Not: (...) İşaretli olan ölçüler motor markasına göre farklılık gösterir. / Note: The dimensions which have (...) sign vary depending on the motor brand.

PSH 3125 IEC

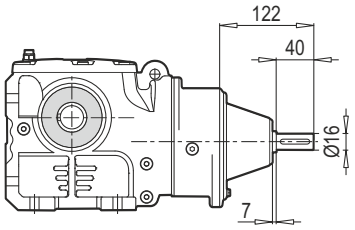


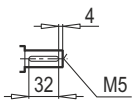


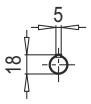
Tip / Type	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PSH 3125	71	160	110	130	4.0	M8	14	30	16.3	5	88
	80	200	130	165	4.0	M10	19	40	21.8	6	107
	90	200	130	165	4.0	M10	24	50	27.3	8	107
	100	250	180	215	5.0	M12	28	60	31.3	8	124
	112	250	180	215	5.0	M12	28	60	31.3	8	124

~ Kg	
IEC	PSH 3125
71	117
80	121
90	121
100	125
112	125

PSH 3125 W

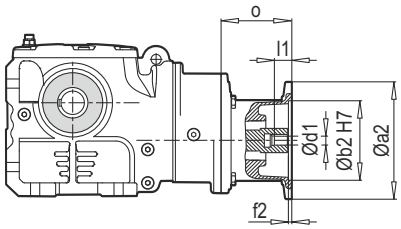


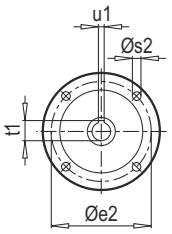




W ~ Kg	
PSH 3125	119

PSH 3125 PAM B5/B14





Tip / Type	PAM B5	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PSH 3125	71	160	110	130	4.0	M8	14	30	16.3	5	88
	80	200	130	165	4.0	M10	19	40	21.8	6	72
	90	200	130	165	4.0	M10	24	50	27.3	8	72
	100	250	180	215	5.0	M12	28	60	31.3	8	75
	112	250	180	215	5.0	M12	28	60	31.3	8	75

~ Kg	
PAM B5	PSH 3125
71	107
80	108
90	108
100	109
112	109

Tip / Type	PAM B14	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PSH 3125	71	105	70	85	4.0	7	14	30	16.3	5	88
	80	120	80	100	4.0	7	19	40	21.8	6	72
	90	140	95	115	4.0	9	24	50	27.3	8	72
	100	160	110	130	5.0	9	28	60	31.3	8	75
	112	160	110	130	5.0	9	28	60	31.3	8	75

~ Kg	
PAM B14	PSH 3125
71	105
80	106
90	106
100	108
112	108

W ve IEC Adaptörü Seçim Tabloları

Selection of W and IEC Adapters

PSH

PSH
İKİ KADEME

PSH
ÜÇ KADEME

TR TEKNİK AÇIKLAMALAR

EN TECHNICAL EXPLANATIONS

W ve IEC adaptörü için performans tablolarının yapısı

Notify about performance tables for W and IEC adapter type

PSH 2063 → **Redüktör Tipi** / Gear unit type

Motor gövde büyüklüğü ile IEC gövde büyüklüğü aynı olan IEC montajlı redüktörler için Servis faktörü f_B motor seçim sayfalarından alınabilir.

Service factor f_B could be seen from selection of geared motor tables. Because this value is same for geared motor and geared motor with IEC adapters.

IEC motor büyüklükleri ve IEC standart çıkışları DIN 50347' e göredir.
According to DIN EN 50347 IEC motor sizes.

Tip / Type	Tahvil / Reduction i_{ges}	Helisel / Helical i_1	Sonsuz / Worm Z_2/Z_1	W n_1= 1400 min^{-1} n_2 [min^{-1}]	M_{amax} [Nm]	P_{1max} [kW] f_B = 1	P_{1max} [kW] $f_B \geq 1$	η [%]	IEC f_B ⇨ 53 - 67		DIN 42677' ye göre IEC Adaptöre Bağlanacak Motor Boyutu / The motor size that will be connected to IEC adapter according to DIN 42677.						
PSH 2063	626.57*	12.29	51/1	2.2	360	0.17		48	63*	71*						
	529.13*	10.38	51/1	2.7	360	0.20		49	63	71*						
	464.67*	9.11	51/1	3.0	360	0.23		49	63	71*						
				. . .	. . .											
				165.1	166		*2.20*	89								
				189.2	156		*2.20*	90								

P_{1max} hesaplanırken *italik* olan değerlerde f_B>1 alınmıştır.
P_{1max} value which is *italic*, is calculated when service factor f_B is greater than one.

Yıldız işareti : Dikkat
Tip W sütunundaki P_{1max} değerlerini aşmamalıdır.
Star sign is shown precautions which is value of P_{1max} must be greater than drive power.

Tip W azami tahrik gücü hesaplanırken *italik* olmayan değerler alınmıştır. P_{1max} ile f_B = 1
P_{1max} value which is *non-italic* is calculated when service factor f_B is equal to one.

63	63
63	63

Rakamlı alanlar IEC adaptörünün, IEC motor büyüklüğü ve tahvil oranına uygun olduğunu belirtir.
This area which is colorless is shown IEC adapter is applicable for this IEC motor size and reduction ratio

Max.çıkış momenti
Max.output torque while service factor f_B = 1

Çıkış Devri
Output speed

Redüktör Tahvili
Reduction ratio

Redüktör Tipi
Gear unit type

Tip Type	Tahvil Reduction i_{ges}	Helisel Helical i_1	Sonsuz Worm Z_2/Z_1	W n_1= 1400 min^{-1} n_2 [min^{-1}]	M_{amax} f_B=1 [Nm]	P_{1max} $f_B \geq 1$ [kW]	η [%]	W n_1= 930 min^{-1} n_2 [min^{-1}]	M_{amax} f_B=1 [Nm]	P_{1max} $f_B \geq 1$ [kW]	η [%]	IEC-PAM f_B ⇨ 53 - 67					
PSH 2040 W - IEC mm 72 + PAM mm 73	304.20	7.80	39/1	4.6	100	0.10	49	3.1	104	0.07	48	63*	71*	80*			
	237.90	6.10	39/1	5.9	100	0.12	50	3.9	106	0.09	49	63*	71*	80*			
	128.70	7.80	33/2	10.9	100	0.17	68	7.2	104	0.12	67	63*	71*	80*			
	115.23	2.95	39/1	12.1	94	0.22	53	8.1	101	0.17	51	63	71*	80*	90*		
	100.65	6.10	33/2	13.9	100	0.21	68	9.2	106	0.15	67	63	71*	80*			
	99.45	2.55	39/1	14.1	92	0.25	54	9.4	99	0.19	52	63	71*	80*	90*		
	86.86	2.23	39/1	16.1	87	0.27	54	10.7	95	0.20	52	63	71*	80*	90*		
	76.38	1.96	39/1	18.3	85	0.30	55	12.2	93	0.22	53	63	71*	80*	90*		
	67.50	1.73	39/1	20.7	82	0.32	56	13.8	91	0.24	54	63	71*	80*	90*		
	59.80	7.80	23/3	23.4	100	0.31	78	15.6	104	0.22	78	63	71*	80*			
	52.00	1.33	39/1	26.9	81	0.39	58	17.9	91	0.31	55	63	71	80*	90*		
	46.77	6.10	23/3	29.9	100	0.40	79	19.9	106	0.28	78	63	71	80*			
	44.78	1.15	39/1	31.3	81	0.45	59	20.8	92	0.36	56	63	71	80*	90*		
	42.08	2.55	33/2	33.3	85	0.42	71	22.1	92	0.30	70	63	71	80*	90*		
	36.75	2.23	33/2	38.1	81	0.45	72	25.3	88	0.33	70	63	71	80*	90*		
	32.31	1.96	33/2	43.3	78	0.49	72	28.8	85	0.36	71	63	71	80*	90*		
	28.56	1.73	33/2	49.0	75	0.53	73	32.6	83	0.40	71	63	71	80*	90*		
	22.00	1.33	33/2	63.6	73	0.66	74	42.3	82	0.50	72	63	71	80*	90*		
	19.55	2.55	23/3	71.6	80	0.74	81	47.6	86	0.54	80	63	71	80*	90*		
	17.08	2.23	23/3	82.0	78	0.83	81	54.4	85	0.61	80	63	71	80	90*		
	15.01	1.96	23/3	93.3	75	0.89	82	62.0	82	0.66	81	63	71	80	90*		
	13.27	1.73	23/3	105.5	73	0.98	82	70.1	81	0.73	81	63	71	80	90*		
	10.22	1.33	23/3	137.0	68	1.10	83	91.0	77	0.73	82	63	71	80	90*		
	8.80	1.15	23/3	159.1	65	1.10	83	105.7	74	0.73	82	63	71	80	90*		
	7.51	1.96	23/6	186.4	57	1.10	87	123.8	62	0.73	86	63	71	80	90*		
	6.63	1.73	23/6	211.2	54	1.10	87	140.3	60	0.73	86	63	71	80	90*		
	5.11	1.33	23/6	274.0	48	1.10	88	182.0	54	0.73	87	63	71	80	90*		
	4.40	1.15	23/6	318.2	46	1.10	88	211.4	52	0.73	87	63	71	80	90*		

	IEC bağlantısı yoktur - No IEC assembling on empty fields
63	**IEC bağlantısı yapılır -** IEC assembling available on numbered fields
80*	**IEC bağlantısı yapılacaksa P_{1max} değerleri aşılmamalıdır -** Do not exceed the P_{1max} values indicated on fields with asterisk

Tip / Type	Tahvil Reduction i_{ges}	Helisel Helical i_1	Sonsuz Worm Z_2/Z_1	W n_1= 700 min^{-1} n_2 [min^{-1}]	M_{amax} f_B=1 [Nm]	P_{1max} $f_B \geq 1$ [kW]	η [%]	W n_1= 465 min^{-1} n_2 [min^{-1}]	M_{amax} f_B=1 [Nm]	P_{1max} $f_B \geq 1$ [kW]	η [%]	W n_1= 250 min^{-1} n_2 [min^{-1}]	M_{amax} f_B=1 [Nm]	P_{1max} $f_B \geq 1$ [kW]	η [%]	IEC f_B ⇨ 53 - 67			
PSH 2040	304.20	7.80	39/1	2.3	107	0.05	48	1.5	112	0.04	47	0.82	119	0.02	47	63*	71*	80*	
	237.90	6.10	39/1	2.9	109	0.07	48	2.0	113	0.05	47	1.1	120	0.03	47	63*	71*	80*	
	128.70	7.80	33/2	5.4	107	0.09	66	3.6	112	0.06	66	1.9	119	0.04	65	63*	71*	80*	
W - IEC	**115.23**	2.95	39/1	6.1	104	0.13	50	4.0	111	0.09	49	2.2	117	0.06	48	63	71*	80*	90*
mm	100.65	6.10	33/2	7.0	109	0.12	67	4.6	113	0.08	66	2.5	120	0.05	66	63	71*	80*	
72	**99.45**	2.55	39/1	7.0	103	0.15	50	4.7	110	0.11	49	2.5	116	0.06	48	63	71*	80*	90*
	86.86	2.23	39/1	8.1	99	0.16	51	5.4	105	0.12	49	2.9	112	0.07	48	63	71*	80*	90*
+	**76.38**	1.96	39/1	9.2	98	0.18	52	6.1	104	0.13	50	3.3	112	0.08	48	63	71*	80*	90*
PAM	**67.50**	1.73	39/1	10.4	96	0.20	52	6.9	102	0.15	50	3.7	110	0.09	49	63	71*	80*	90*
mm	59.80	7.80	23/3	11.7	107	0.17	77	7.8	112	0.12	77	4.2	119	0.07	77	63	71*	80*	
73	**52.00**	1.33	39/1	13.5	97	0.26	53	8.9	105	0.19	51	4.8	114	0.12	49	63	71	80*	90*
	46.77	6.10	23/3	15.0	109	0.22	78	9.9	113	0.15	77	5.3	120	0.09	77	63	71	80*	
	44.78	1.15	39/1	15.6	99	0.30	54	10.4	108	0.23	52	5.6	118	0.14	50	63	71	80*	90*
	42.08	2.55	33/2	16.6	95	0.24	69	11.1	101	0.17	68	5.9	107	0.10	66	63	71	80*	90*
	36.75	2.23	33/2	19.0	92	0.27	69	12.7	98	0.19	68	6.8	104	0.11	67	63	71	80*	90*
	32.31	1.96	33/2	21.7	90	0.29	70	14.4	95	0.21	68	7.7	102	0.12	67	63	71	80*	90*
	28.56	1.73	33/2	24.5	87	0.32	70	16.3	93	0.23	69	8.8	101	0.14	67	63	71	80*	90*
	22.00	1.33	33/2	31.8	88	0.41	71	21.1	95	0.30	69	11.4	103	0.18	68	63	71	80*	90*
	19.55	2.55	23/3	35.8	90	0.43	79	23.8	95	0.30	78	12.8	101	0.17	78	63	71	80*	90*
	17.08	2.23	23/3	41.0	88	0.47	80	27.2	94	0.34	79	14.6	100	0.20	78	63	71	80	90*
	15.01	1.96	23/3	46.6	86	0.52	80	31.0	92	0.38	79	16.7	99	0.22	78	63	71	80	90*
	13.27	1.73	23/3	52.8	85	0.59	80	35.0	90	0.42	79	18.8	98	0.25	78	63	71	80	90*
	10.22	1.33	23/3	68.5	82	0.55	81	45.5	88	*0.36*	80	24.5	96	0.20	78	63	71	80	90*
	8.80	1.15	23/3	79.5	80	0.55	81	52.8	87	*0.36*	80	28.4	94	0.20	79	63	71	80	90*
	7.51	1.96	23/6	93.2	66	0.55	85	61.9	70	*0.36*	84	33.3	75	0.20	84	63	71	80	90*
	6.63	1.73	23/6	105.6	63	0.55	86	70.1	67	*0.36*	85	37.7	72	0.20	84	63	71	80	90*
	5.11	1.33	23/6	137.0	58	0.55	86	91.0	62	*0.36*	85	48.9	68	0.20	84	63	71	80	90*
	4.40	1.15	23/6	159.1	56	0.55	86	105.7	61	*0.36*	85	56.8	67	0.20	84	63	71	80	90*

	IEC bağlantısı yoktur - No IEC assembling on empty fields
63	**IEC bağlantısı yapılır -** IEC assembling available on numbered fields
80*	**IEC bağlantısı yapılacaksa P_{1max} değerleri aşılmamalıdır -** Do not exceed the P_{1max} values indicated on fields with asterisk

Tip Type	Tahvil Reduction i_{ges}	Helisel Helical i_1	Sonsuz Worm Z_2/Z_1	W n_1= 1400 min^{-1} n_2 [min^{-1}]	M_{amax} f_B=1 [Nm]	P_{1max} $f_B \geq 1$ [kW]	η [%]	W n_1= 930 min^{-1} n_2 [min^{-1}]	M_{amax} f_B=1 [Nm]	P_{1max} $f_B \geq 1$ [kW]	η [%]	IEC f_B ⇨ 53 - 67					
PSH 3050 **W - IEC** mm 80 + **PAM** mm 81	3016.29	59.14	51/1	0.46	195	0.02	47	0.31	199	0.01	46	63*	71*				
	2248.25	44.08	51/1	0.62	195	0.03	47	0.41	201	0.02	46	63*	71*				
	1969.48	38.62	51/1	0.71	195	0.03	47	0.47	202	0.02	47	63*	71*				
	1746.47	34.24	51/1	0.80	195	0.03	47	0.53	203	0.02	47	63*	71*				
	1330.71	59.14	45/2	1.1	195	0.03	65	0.70	199	0.02	65	63*	71*				
	991.88	44.08	45/2	1.4	195	0.04	66	0.94	201	0.03	65	63*	71*				
	868.89	38.62	45/2	1.6	195	0.05	66	1.1	202	0.04	65	63*	71*				
	755.93	14.82	51/1	1.9	195	0.08	48	1.2	203	0.05	47	63*	71*				
	663.52	13.01	51/1	2.1	195	0.09	48	1.4	203	0.06	47	63*	71*				
	586.50	11.50	51/1	2.4	195	0.10	48	1.6	203	0.07	48	63*	71*				
	473.94	9.29	51/1	3.0	195	0.13	49	2.0	202	0.09	48	63*	71*				
	412.72	8.09	51/1	3.4	195	0.14	49	2.3	203	0.10	48	63*	71*				
	333.50	14.82	45/2	4.2	195	0.13	67	2.8	203	0.09	66	63*	71*				
	292.73	13.01	45/2	4.8	195	0.15	67	3.2	203	0.10	66	63*	71*				
	209.09	9.29	45/2	6.7	195	0.20	68	4.4	202	0.14	67	63	71*				
	182.08	8.09	45/2	7.7	195	0.23	68	5.1	203	0.16	67	63	71*				
	158.10	14.82	32/3	8.9	195	0.23	78	5.9	203	0.16	77	63	71*				
	138.77	13.01	32/3	10.1	195	0.26	78	6.7	203	0.18	77	63	71*				
	122.67	11.50	32/3	11.4	195	0.30	78	7.6	203	0.21	77	63	71*				
	99.12	9.29	32/3	14.1	190	0.36	78	9.4	197	0.25	78	63	71*				
	86.32	8.09	32/3	16.2	180	0.37	79	10.8	187	0.24	78	63	71				
	76.58	14.82	31/6	18.3	140	0.32	83	12.1	141	0.22	83	63	71*				
	67.22	13.01	31/6	20.8	130	0.34	84	13.8	136	0.24	83	63	71*				
	59.42	11.50	31/6	23.6	130	0.37	84	15.7	135	0.24	83	63	71				
	48.01	9.29	31/6	29.2	110	0.37	84	19.4	114	0.24	83	63	71				
	41.81	8.09	31/6	33.5	110	0.37	84	22.2	110	0.24	84	63	71				

	IEC bağlantısı yoktur - No IEC assembling on empty fields
63	**IEC bağlantısı yapılır -** IEC assembling available on numbered fields
80*	**IEC bağlantısı yapılacaksa P_{1max} değerleri aşılmamalıdır -** Do not exceed the P_{1max} values indicated on fields with asterisk

Tip Type	Tahvil Reduction i_{ges}	Helisel Helical i_1	Sonsuz Worm Z_2/Z_1	W n_1= 700 min^{-1} n_2 [min^{-1}]	M_{amax} f_B=1 [Nm]	P_{1max} $f_B \geq 1$ [kW]	η [%]	W n_1= 465 min^{-1} n_2 [min^{-1}]	M_{amax} f_B=1 [Nm]	P_{1max} $f_B \geq 1$ [kW]	η [%]	W n_1= 250 min^{-1} n_2 [min^{-1}]	M_{amax} f_B=1 [Nm]	P_{1max} $f_B \geq 1$ [kW]	η [%]	IEC f_B ⇨ 53 - 67			
PSH 3050 **W - IEC** mm 80 + **PAM** mm 81	3016.29	59.14	51/1	0.23	202	0.01	46	0.15	215	0.01	46	0.08	232	-	46	63*	71*		
	2248.25	44.08	51/1	0.31	204	0.01	46	0.21	207	0.01	46	0.11	230	0.01	46	63*	71*		
	1969.48	38.62	51/1	0.36	205	0.02	46	0.24	209	0.01	46	0.13	229	0.01	46	63*	71*		
	1746.47	34.24	51/1	0.40	207	0.02	46	0.27	211	0.01	46	0.14	227	0.01	46	63*	71*		
	1330.71	59.14	45/2	0.53	202	0.02	65	0.35	215	0.01	65	0.19	232	0.01	65	63*	71*		
	991.88	44.08	45/2	0.71	204	0.02	65	0.47	207	0.02	65	0.25	230	0.01	65	63*	71*		
	868.89	38.62	45/2	0.81	205	0.03	65	0.54	209	0.02	65	0.29	229	0.01	65	63*	71*		
	755.93	14.82	51/1	0.93	208	0.04	47	0.62	219	0.03	47	0.33	227	0.02	46	63*	71*		
	663.52	13.01	51/1	1.1	208	0.05	47	0.70	219	0.03	47	0.38	229	0.02	46	63*	71*		
	586.50	11.50	51/1	1.2	208	0.06	47	0.79	218	0.04	47	0.43	229	0.02	46	63*	71*		
	473.94	9.29	51/1	1.5	209	0.07	48	1.0	216	0.05	47	0.53	231	0.03	47	63*	71*		
	412.72	8.09	51/1	1.7	209	0.08	48	1.1	217	0.05	47	0.61	232	0.03	47	63	71*		
	333.50	14.82	45/2	2.1	208	0.07	66	1.4	219	0.05	65	0.75	227	0.03	65	63*	71*		
	292.73	13.01	45/2	2.4	208	0.08	66	1.6	219	0.06	66	0.85	229	0.03	65	63*	71*		
	209.09	9.29	45/2	3.3	209	0.11	66	2.2	216	0.08	66	1.2	231	0.04	65	63*	71*		
	182.08	8.09	45/2	3.8	209	0.13	66	2.6	217	0.09	66	1.4	232	0.05	66	63	71*		
	158.10	14.82	32/3	4.4	208	0.12	77	2.9	219	0.09	77	1.6	227	0.05	77	63	71*		
	138.77	13.01	32/3	5.0	208	0.14	77	3.4	219	0.10	77	1.8	229	0.06	77	63	71*		
	122.67	11.50	32/3	5.7	208	0.16	77	3.8	218	0.11	77	2.0	229	0.06	77	63	71*		
	99.12	9.29	32/3	7.1	203	0.20	77	4.7	211	0.13	77	2.5	225	0.08	77	63	71*		
	86.32	8.09	32/3	8.1	193	0.21	78	5.4	199	0.12	77	2.9	199	0.07	77	63	71*		
	76.58	14.82	31/6	9.1	141	0.16	83	6.1	141	0.12	83	3.3	139	0.06	82	63	71*		
	67.22	13.01	31/6	10.4	139	0.18	83	6.9	139	0.12	83	3.7	138	0.07	82	63	71*		
	59.42	11.50	31/6	11.8	138	0.19	83	7.8	138	0.12	83	4.2	137	0.07	82	63	71*		
	48.01	9.29	31/6	14.6	118	0.19	83	9.7	120	0.12	83	5.2	120	0.07	83	63	71*		
	41.81	8.09	31/6	16.7	109	0.19	83	11.1	109	0.12	83	6.0	109	0.07	83	63	71*		

	IEC bağlantısı yoktur - No IEC assembling on empty fields
63	**IEC bağlantısı yapılır -** IEC assembling available on numbered fields
80*	**IEC bağlantısı yapılacaksa P_{1max} değerleri aşılmamalıdır -** Do not exceed the P_{1max} values indicated on fields with asterisk

Tip Type	Tahvil Reduction i_{ges}	Helisel Helical i_1	Sonsuz Worm Z_2/Z_1	W n_1= 1400 min^{-1} n_2 [min^{-1}]	M_{amax} f_B=1 [Nm]	P_{1max} $f_B \geq 1$ [kW]	η [%]	W n_1= 930 min^{-1} n_2 [min^{-1}]	M_{amax} f_B=1 [Nm]	P_{1max} $f_B \geq 1$ [kW]	η [%]	IEC f_B ⇨ 53 - 67					
PSH 2050 W - IEC mm 76 + PAM mm 77	524.57	10.29	51/1	2.7	185	0.11	49	1.8	192	0.08	48	63*	71*				
	439.88	8.62	51/1	3.2	185	0.13	49	2.1	192	0.09	48	63*	71*				
	385.33	7.56	51/1	3.6	185	0.14	50	2.4	193	0.10	48	63*	71*				
	341.70	6.70	51/1	4.1	185	0.16	50	2.7	195	0.11	49		71*	80*			
	231.43	10.29	45/2	6.0	185	0.17	67	4.0	192	0.12	67	63*	71*				
	194.06	8.62	45/2	7.2	185	0.21	68	4.8	192	0.14	67	63	71*				
	170.00	7.56	45/2	8.2	185	0.23	68	5.5	193	0.17	67	63	71*				
	147.90	2.90	51/1	9.5	175	0.32	54	6.3	188	0.24	52	63	71*	80*	90*		
	129.82	2.55	51/1	10.8	168	0.35	55	7.2	181	0.26	52	63	71*	80*	90*		
	114.75	2.25	51/1	12.2	168	0.38	56	8.1	182	0.29	53	63	71	80*	90*		
	92.73	1.82	51/1	15.1	168	0.47	57	10.0	185	0.36	54	63	71	80*	90*		
	80.75	1.58	51/1	17.3	168	0.52	58	11.5	187	0.41	55	63	71	80*	90*		
	65.25	2.90	45/2	21.5	168	0.53	72	14.3	180	0.39	70	63	71	80*	90*		
	57.27	2.55	45/2	24.4	168	0.60	72	16.2	181	0.44	70	63	71	80*	90*		
	50.63	2.25	45/2	27.7	155	0.62	73	18.4	168	0.46	71	63	71	80*	90*		
	40.91	1.82	45/2	34.2	155	0.75	74	22.7	171	0.56	72	63	71	80	90*		
	35.63	1.58	45/2	39.3	155	0.85	75	26.1	172	0.65	72	63	71	80	90*		
	30.93	2.90	32/3	45.3	155	0.91	81	30.1	166	0.65	80	63	71	80	90*		
	27.15	2.55	32/3	51.6	155	1.02	82	34.3	167	0.75	80	63	71	80	90*		
	24.00	2.25	32/3	58.3	155	1.15	82	38.8	168	0.84	81	63	71	80	90*		
	19.39	1.82	32/3	72.2	145	1.32	83	48.0	160	0.98	82	63	71	80	90*		
	16.89	1.58	32/3	82.9	120	1.26	83	55.1	133	0.94	82	63	71	80	90*		
	14.77	1.38	32/3	94.8	113	1.34	84	63.0	127	1.02	82	63	71	80	90*		
	13.15	2.55	31/6	106.5	120	1.50	87	70.7	129	0.99	86	63	71	80	90		
	11.63	2.25	31/6	120.4	113	1.50	87	80.0	123	0.99	86	63	71	80	90		
	9.39	1.82	31/6	149.1	110	1.50	88	99.0	121	0.99	87	63	71	80	90		
	8.18	1.58	31/6	171.1	110	1.50	88	113.7	122	0.99	87	63	71	80	90		
	7.15	1.38	31/6	195.8	105	1.50	88	130.1	118	0.99	87	63	71	80	90		

	IEC bağlantısı yoktur - No IEC assembling on empty fields
63	**IEC bağlantısı yapılır -** IEC assembling available on numbered fields
80*	**IEC bağlantısı yapılacaksa P_{1max} değerleri aşılmamalıdır -** Do not exceed the P_{1max} values indicated on fields with asterisk

Tip Type	Tahvil Reduction i_{ges}	Helisel Helical i_1	Sonsuz Worm Z_2/Z_1	W n_1= 700 min^{-1} n_2 [min^{-1}]	M_{amax} f_B=1 [Nm]	P_{1max} $f_B \geq 1$ [kW]	η [%]	W n_1= 465 min^{-1} n_2 [min^{-1}]	M_{amax} f_B=1 [Nm]	P_{1max} $f_B \geq 1$ [kW]	η [%]	W n_1= 250 min^{-1} n_2 [min^{-1}]	M_{amax} f_B=1 [Nm]	P_{1max} $f_B \geq 1$ [kW]	η [%]	IEC f_B ⇨ 53 - 67			
PSH 2050	524.57	10.29	51/1	1.3	198	0.06	47	0.89	206	0.04	47	0.48	218	0.02	47	63*	71*		
	439.88	8.62	51/1	1.6	198	0.07	48	1.1	205	0.05	47	0.57	219	0.03	47	63*	71*		
	385.33	7.56	51/1	1.8	198	0.08	48	1.2	207	0.06	47	0.65	220	0.03	47	63*	71*		
W - IEC	341.70	6.70	51/1	2.0	199	0.09	48	1.4	208	0.06	47	0.73	221	0.04	47		71*	80*	
mm	231.43	10.29	45/2	3.0	198	0.09	66	2.0	206	0.07	66	1.1	211	0.04	65	63*	71*		
76	194.06	8.62	45/2	3.6	198	0.11	66	2.4	205	0.08	66	1.3	219	0.05	65	63	71*		
+	170.00	7.56	45/2	4.1	198	0.13	67	2.7	207	0.09	66	1.5	220	0.05	66	63	71*		
PAM	**147.90**	2.90	51/1	4.7	194	0.19	51	3.1	207	0.14	49	1.7	219	0.08	48	63	71*	80*	90*
mm	**129.82**	2.55	51/1	5.4	188	0.21	51	3.6	201	0.15	49	1.9	212	0.09	48	63	71*	80*	90*
77	**114.75**	2.25	51/1	6.1	190	0.23	52	4.1	203	0.17	50	2.2	216	0.10	48	63	71*	80*	90*
	92.73	1.82	51/1	7.5	195	0.29	53	5.0	207	0.21	51	2.7	224	0.13	49	63	71	80*	90*
	80.75	1.58	51/1	8.7	198	0.34	53	5.8	211	0.25	51	3.1	229	0.15	49	63	71	80*	90*
	65.25	2.90	45/2	10.7	186	0.30	69	7.1	199	0.22	68	3.8	210	0.13	66	63	71	80*	90*
	57.27	2.55	45/2	12.2	188	0.35	69	8.1	201	0.25	68	4.4	212	0.15	67	63	71	80*	90*
	50.63	2.25	45/2	13.8	176	0.36	70	9.2	187	0.26	68	4.9	199	0.15	67	63	71	80*	90*
	40.91	1.82	45/2	17.1	180	0.45	71	11.4	191	0.33	69	6.1	206	0.20	67	63	71	80*	90*
	35.63	1.58	45/2	19.6	183	0.53	71	13.1	195	0.39	69	7.0	211	0.23	68	63	71	80*	90*
	30.93	2.90	32/3	22.6	172	0.52	79	15.0	183	0.37	78	8.1	194	0.21	78	63	71	80*	90*
	27.15	2.55	32/3	25.8	174	0.59	80	17.1	185	0.42	79	9.2	196	0.24	78	63	71	80	90*
	24.00	2.25	32/3	29.2	176	0.67	80	19.4	187	0.48	79	10.4	199	0.28	78	63	71	80	90*
	19.39	1.82	32/3	36.1	168	0.78	81	24.0	178	0.57	79	12.9	193	0.33	78	63	71	80	90*
	16.89	1.58	32/3	41.4	141	0.75	81	27.5	151	0.54	80	14.8	164	0.33	78	63	71	80	90*
	14.77	1.38	32/3	47.4	135	0.83	81	31.5	146	0.60	80	16.9	158	0.35	79	63	71	80	90*
	13.15	2.55	31/6	53.2	134	0.75	85	35.4	141	0.50	84	19.0	139	0.27	83	63	71	80	90*
	11.63	2.25	31/6	60.2	128	0.75	85	40.0	136	0.50	85	21.5	140	0.27	84	63	71	80	90*
	9.39	1.82	31/6	74.5	128	0.75	86	49.5	135	0.50	85	26.6	137	0.27	84	63	71	80	90*
	8.18	1.58	31/6	85.6	130	0.75	86	56.8	137	0.50	85	30.6	135	0.27	84	63	71	80	90
	7.15	1.38	31/6	97.9	126	0.75	87	65.0	136	0.50	86	35.0	133	0.27	84	63	71	80	90

	IEC bağlantısı yoktur - No IEC assembling on empty fields
63	**IEC bağlantısı yapılır -** IEC assembling available on numbered fields
80*	**IEC bağlantısı yapılacaksa P_{1max} değerleri aşılmamalıdır -** Do not exceed the P_{1max} values indicated on fields with asterisk

Tip Type	Tahvil Reduction i_{ges}	Helisel Helical i_1	Sonsuz Worm Z_2/Z_1	W n_1= 1400 min^{-1} n_2 [min^{-1}]	M_{amax} f_B=1 [Nm]	P_{1max} $f_B \geq 1$ [kW]	η [%]	W n_1= 930 min^{-1} n_2 [min^{-1}]	M_{amax} f_B=1 [Nm]	P_{1max} $f_B \geq 1$ [kW]	η [%]	IEC f_B ⇨ 53 - 67					
PSH 3063 **W - IEC** mm 88 + **PAM** mm 89	3628.29★	71.14	51/1	0.39	380	0.03	45	0.26	387	0.02	45	63*	71*				
	2704.42★	53.03	51/1	0.52	380	0.04	46	0.34	390	0.03	45	63*	71*				
	2374.96★	46.57	51/1	0.59	380	0.05	46	0.39	391	0.04	45	63*	71*				
	2111.40★	41.40	51/1	0.66	380	0.06	46	0.44	393	0.04	45	63*	71*				
	1343.24★	62.48	43/2	1.0	380	0.06	64	0.69	388	0.04	64	63*	71*				
	1140.10★	53.03	43/2	1.2	380	0.07	64	0.82	390	0.05	64	63*	71*				
	938.40	18.40	51/1	1.5	380	0.13	47	1.0	392	0.09	46	63*	71*				
	738.56	14.48	51/1	1.9	380	0.16	48	1.3	396	0.11	47	63*	71*				
	604.27	11.85	51/1	2.3	380	0.19	48	1.5	396	0.13	47	63	71*				
	532.19	10.44	51/1	2.6	380	0.21	49	1.7	395	0.15	47	63	71*				
	471.21	9.24	51/1	3.0	380	0.24	49	2.0	394	0.17	48	63	71*				
	395.60	18.40	43/2	3.5	380	0.21	66	2.4	392	0.15	65	63	71*				
	349.65	16.26	43/2	4.0	380	0.24	66	2.7	394	0.17	65	63	71*				
	311.35	14.48	43/2	4.5	380	0.27	66	3.0	396	0.19	66	63	71*				
	254.74	11.85	43/2	5.5	370	0.32	67	3.7	385	0.23	66	63	71*				
	224.36	10.44	43/2	6.2	370	0.36	67	4.1	384	0.25	66	63	71*				
	198.65	9.24	43/2	7.0	360	0.37	68	4.7	373	0.24	66	63	71				
	178.60	14.48	37/3	7.8	340	0.37	76	5.2	354	0.24	75	63	71				
	146.13	11.85	37/3	9.6	330	0.37	77	6.4	333	0.24	76	63	71				
	128.70	10.44	37/3	10.9	300	0.37	77	7.2	296	0.24	76	63	71				
	113.95	9.24	37/3	12.3	260	0.37	77	8.2	260	0.24	76	63	71				
	97.18	7.88	37/3	14.4	230	0.37	78	9.6	227	0.24	77	63	71				
	79.65	14.48	33/6	17.6	200	0.37	84	11.7	198	0.24	83	63	71				
	65.17	11.85	33/6	21.5	170	0.37	84	14.3	168	0.24	83	63	71				

★ **İşareti belirtilen tahvil oranlarının B14 veya B5 flanşlı gövde bağlantılılar için geçerli olduğunu gösterir.**

★ Sign shows that this reduction ratio is valid for geared motor with B14 and B5 flange

	IEC bağlantısı yoktur - No IEC assembling on empty fields
63	**IEC bağlantısı yapılır -** IEC assembling available on numbered fields
80*	**IEC bağlantısı yapılacaksa P_{1max} değerleri aşılmamalıdır -** Do not exceed the P_{1max} values indicated on fields with asterisk

Tip / Type	Tahvil / Reduction i_{ges}	Helisel / Helical i_1	Sonsuz / Worm Z_2/Z_1	W n_1= 700 min^{-1} n_2 [min^{-1}]	M_{amax} f_B=1 [Nm]	P_{1max} $f_B \geq 1$ [kW]	η [%]	W n_1= 465 min^{-1} n_2 [min^{-1}]	M_{amax} f_B=1 [Nm]	P_{1max} $f_B \geq 1$ [kW]	η [%]	W n_1= 250 min^{-1} n_2 [min^{-1}]	M_{amax} f_B=1 [Nm]	P_{1max} $f_B \geq 1$ [kW]	η [%]	IEC f_B ⇨ 53 - 67			
PSH 3063 **W - IEC** mm 88 + **PAM** mm 89	3628.29*	71.14	51/1	0.19	392	0.02	45	0.13	426	0.01	45	0.07	454	0.01	45	63*	71*		
	2704.42*	53.03	51/1	0.26	394	0.02	45	0.17	413	0.02	45	0.09	451	0.01	45	63*	71*		
	2374.96*	46.57	51/1	0.29	397	0.03	45	0.20	406	0.02	45	0.11	449	0.01	45	63*	71*		
	2111.40*	41.40	51/1	0.33	399	0.03	45	0.22	406	0.02	45	0.12	447	0.01	45	63*	71*		
	1343.24*	62.48	43/2	0.52	392	0.03	64	0.35	421	0.02	64	0.19	452	0.01	64	63*	71*		
	1140.10*	53.03	43/2	0.61	394	0.04	64	0.41	413	0.03	64	0.22	428	0.02	64	63*	71*		
	938.40	18.40	51/1	0.75	407	0.07	46	0.50	424	0.05	45	0.27	437	0.03	45	63*	71*		
	738.56	14.48	51/1	0.95	405	0.09	46	0.63	427	0.06	46	0.34	444	0.04	45	63*	71*		
	604.27	11.85	51/1	1.2	405	0.11	47	0.77	425	0.07	46	0.41	447	0.04	45	63	71*		
	532.19	10.44	51/1	1.3	406	0.12	47	0.87	423	0.08	46	0.47	448	0.05	45	63	71*		
	471.21	9.24	51/1	1.5	406	0.14	47	1.0	421	0.10	46	0.53	449	0.05	46	63	71*		
	395.60	18.40	43/2	1.8	407	0.12	65	1.2	424	0.08	64	0.63	437	0.05	64	63	71*		
	349.65	16.26	43/2	2.0	406	0.13	65	1.3	425	0.09	65	0.72	440	0.05	64	63	71*		
	311.35	14.48	43/2	2.2	405	0.14	65	1.5	427	0.10	65	0.80	444	0.06	64	63	71*		
	254.74	11.85	43/2	2.7	395	0.17	65	1.8	414	0.12	65	1.0	435	0.07	64	63	71*		
	224.36	10.44	43/2	3.1	395	0.19	66	2.1	412	0.14	65	1.1	430	0.08	64	63	71*		
	198.65	9.24	43/2	3.5	385	*0.19*	66	2.3	388	*0.12*	65	1.3	382	*0.07*	64	63	71*		
	178.60	14.48	37/3	3.9	363	*0.19*	75	2.6	382	*0.12*	75	1.4	396	*0.07*	74	63	71*		
	146.13	11.85	37/3	4.8	329	*0.19*	75	3.2	329	*0.12*	75	1.7	325	*0.07*	74	63	71*		
	128.70	10.44	37/3	5.4	292	*0.19*	75	3.6	292	*0.12*	75	1.9	288	*0.07*	74	63	71		
	113.95	9.24	37/3	6.1	260	*0.19*	76	4.1	257	*0.12*	75	2.2	257	*0.07*	75	63	71		
	97.18	7.88	37/3	7.2	224	*0.19*	76	4.8	221	*0.12*	75	2.6	221	*0.07*	75	63	71		
	79.65	14.48	33/6	8.8	198	*0.19*	83	5.8	196	*0.12*	82	3.1	196	*0.07*	82	63	71		
	65.17	11.85	33/6	10.7	168	*0.19*	83	7.1	168	*0.12*	83	3.8	166	*0.07*	82	63	71		

★ **İşareti belirtilen tahvil oranlarının B14 veya B5 flanşlı gövde bağlantılılar için geçerli olduğunu gösterir.**

★ Sign shows that this reduction ratio is valid for geared motor with B14 and B5 flange

	IEC bağlantısı yoktur - No IEC assembling on empty fields
63	**IEC bağlantısı yapılır -** IEC assembling available on numbered fields
80*	**IEC bağlantısı yapılacaksa P_{1max} değerleri aşılmamalıdır -** Do not exceed the P_{1max} values indicated on fields with asterisk

Tip Type	Tahvil Reduction i_{ges}	Helisel Helical i_1	Sonsuz Worm Z_2/Z_1	W n_1= 1400 min^{-1}				W n_1= 930 min^{-1}				IEC f_B ⇨ 📖 53 - 67					
				n_2	M_{amax} f_B=1	P_{1max} f_B≥1	η	n_2	M_{amax} f_B=1	P_{1max} f_B≥1	η						
				[min^{-1}]	[Nm]	[kW]	[%]	[min^{-1}]	[Nm]	[kW]	[%]						
PSH 2063 **W - IEC** mm 📖 84 + **PAM** mm 📖 85	626.57★	12.29	51/1	2.2	360	0.17	48	1.5	375	0.13	47	63*	71*				
	529.13★	10.38	51/1	2.6	360	0.20	49	1.8	374	0.15	47	63	71*				
	464.67★	9.11	51/1	3.0	360	0.23	49	2.0	373	0.16	48	63	71*				
	413.10★	8.10	51/1	3.4	360	0.26	50	2.3	375	0.19	48		71*	80*			
	264.14★	12.29	43/2	5.3	350	0.29	67	3.5	349	0.19	66	63	71*				
	223.06★	10.38	43/2	6.3	360	0.35	67	4.2	374	0.25	66	63	71*				
	195.89★	9.11	43/2	7.1	360	0.39	68	4.7	373	0.27	67	63	71				
	183.60	3.60	51/1	7.6	325	0.48	54	5.1	343	0.35	52	63	71	80*	90*		
	162.27	3.18	51/1	8.6	310	0.51	55	5.7	330	0.38	52	63	71	80*	90*		
	144.50	2.83	51/1	9.7	300	0.54	56	6.4	322	0.41	53	63	71	80*	90*	100*	
	118.23	2.32	51/1	11.8	295	0.63	58	7.9	320	0.49	54	63	71	80*	90*	100*	
	104.13	2.04	51/1	13.4	295	0.70	59	8.9	322	0.55	55	63	71	80*	90*	100*	
	92.19	1.81	51/1	15.2	295	0.78	60	10.1	325	0.61	56	63	71	80	90*	100*	
	77.40	3.60	43/2	18.1	305	0.80	72	12.0	322	0.58	70	63	71	80	90*		
	68.41	3.18	43/2	20.5	295	0.87	73	13.6	314	0.64	70	63	71	80	90*		
	60.92	2.83	43/2	23.0	280	0.92	73	15.3	301	0.68	71	63	71	80	90*	100*	
	49.84	2.32	43/2	28.1	262	1.03	75	18.7	284	0.77	72	63	71	80	90*	100*	
	43.90	2.04	43/2	31.9	250	1.11	75	21.2	273	0.83	73	63	71	80	90*	100*	
	38.87	1.81	43/2	36.0	245	1.22	76	23.9	270	0.91	74	63	71	80	90*	100*	
	34.94	2.83	37/3	40.1	262	1.36	81	26.6	281	0.98	80	63	71	80	90*	100*	
	28.59	2.32	37/3	49.0	245	1.53	82	32.5	266	1.12	81	63	71	80	90	100*	
	25.18	2.04	37/3	55.6	245	1.72	83	36.9	268	1.28	81	63	71	80	90	100*	
	22.29	1.81	37/3	62.8	245	1.94	83	41.7	270	1.44	82	63	71	80	90	100*	
	19.01	1.54	37/3	73.6	215	1.97	84	48.9	240	1.50	82	63	71	80	90	100*	
	15.58	2.83	33/6	89.9	190	2.06	87	59.7	204	1.48	86	63	71	80	90	100*	
	12.75	2.32	33/6	109.8	180	*2.20*	88	72.9	195	*1.45*	87	63	71	80	90	100*	
	11.23	2.04	33/6	124.7	175	*2.20*	88	82.8	191	*1.45*	87	63	71	80	90	100*	
	9.94	1.81	33/6	140.8	170	*2.20*	89	93.6	187	*1.45*	88	63	71	80	90	100*	
	8.48	1.54	33/6	165.1	166	*2.20*	89	109.7	185	*1.45*	88	63	71	80	90	100*	
	7.40	1.35	33/6	189.2	156	*2.20*	90	125.7	176	*1.45*	88	63	71	80	90	100*	

★ **İşareti belirtilen tahvil oranlarının B14 veya B5 flanşlı gövde bağlantılılar için geçerli olduğunu gösterir.**

★ Sign shows that this reduction ratio is valid for geared motor with B14 and B5 flange

	IEC bağlantısı yoktur - No IEC assembling on empty fields
63	**IEC bağlantısı yapılır -** IEC assembling available on numbered fields
80*	**IEC bağlantısı yapılacaksa P_{1max} değerleri aşılmamalıdır -** Do not exceed the P_{1max} values indicated on fields with asterisk

Tip / Type	Tahvil / Reduction i_{ges}	Helisel / Helical i_1	Sonsuz / Worm Z_2/Z_1	W n_1= 700 min^{-1} n_2 [min^{-1}]	M_{amax} f_B=1 [Nm]	P_{1max} $f_B\geq1$ [kW]	η [%]	W n_1= 465 min^{-1} n_2 [min^{-1}]	M_{amax} f_B=1 [Nm]	P_{1max} $f_B\geq1$ [kW]	η [%]	W n_1= 250 min^{-1} n_2 [min^{-1}]	M_{amax} f_B=1 [Nm]	P_{1max} $f_B\geq1$ [kW]	η [%]	IEC f_B ⇨ 53 - 67				
PSH 2063	626.57*	12.29	51/1	1.1	384	0.10	46	0.74	403	0.07	46	0.40	423	0.04	45	63*	71*			
W - IEC	529.13*	10.38	51/1	1.3	385	0.11	47	0.88	401	0.08	46	0.47	424	0.05	45	63	71*			
mm	464.67*	9.11	51/1	1.5	385	0.13	47	1.0	399	0.09	46	0.54	426	0.05	46	63	71*			
84	413.10*	8.10	51/1	1.7	385	0.15	47	1.1	401	0.10	46	0.61	428	0.06	46		71*	80*		
+	264.14*	12.29	43/2	2.7	344	0.15	65	1.8	344	0.10	65	0.95	338	0.05	64	63	71*			
PAM	223.06*	10.38	43/2	3.1	385	0.19	66	2.1	401	0.14	65	1.1	424	0.08	64	63	71*			
mm	195.89*	9.11	43/2	3.6	385	0.22	66	2.4	399	0.15	65	1.3	426	0.09	64	63	71*			
85	**183.60**	3.60	51/1	3.8	359	0.29	50	2.5	377	0.21	48	1.4	399	0.12	47	63	71	80*	90*	
	162.27	3.18	51/1	4.3	343	0.30	51	2.9	363	0.22	49	1.5	384	0.13	47	63	71	80*	90*	
	144.50	2.83	51/1	4.8	333	0.33	51	3.2	355	0.24	49	1.7	376	0.14	47	63	71	80*	90*	100*
	118.23	2.32	51/1	5.9	333	0.39	53	3.9	355	0.29	50	2.1	377	0.17	48	63	71	80*	90*	100*
	104.13	2.04	51/1	6.7	338	0.45	53	4.5	359	0.33	51	2.4	385	0.20	48	63	71	80*	90*	100*
	92.19	1.81	51/1	7.6	343	0.51	54	5.0	363	0.37	51	2.7	393	0.23	49	63	71	80*	90*	100*
	77.40	3.60	43/2	9.0	336	0.46	69	6.0	353	0.33	67	3.2	374	0.19	66	63	71	80*	90*	
	68.41	3.18	43/2	10.2	327	0.51	69	6.8	345	0.37	67	3.7	366	0.21	66	63	71	80*	90*	
	60.92	2.83	43/2	11.5	311	0.54	70	7.6	332	0.39	68	4.1	351	0.23	66	63	71	80	90*	100*
	49.84	2.32	43/2	14.0	296	0.61	71	9.3	315	0.44	69	5.0	335	0.26	67	63	71	80	90*	100*
	43.90	2.04	43/2	15.9	286	0.67	71	10.6	304	0.49	69	5.7	326	0.29	67	63	71	80	90*	100*
	38.87	1.81	43/2	18.0	285	0.75	72	12.0	301	0.54	70	6.4	327	0.33	67	63	71	80	90*	100*
	34.94	2.83	37/3	20.0	291	0.77	79	13.3	310	0.56	77	7.2	328	0.33	76	63	71	80	90*	100*
	28.59	2.32	37/3	24.5	277	0.90	79	16.3	295	0.65	78	8.7	313	0.38	76	63	71	80	90*	100*
	25.18	2.04	37/3	27.8	281	1.02	80	18.5	298	0.74	78	9.9	320	0.43	77	63	71	80	90*	100*
	22.29	1.81	37/3	31.4	285	1.17	80	20.9	301	0.83	79	11.2	327	0.50	77	63	71	80	90*	100*
	19.01	1.54	37/3	36.8	254	1.21	81	24.5	272	0.88	79	13.2	295	0.53	77	63	71	80	90	100*
	15.58	2.83	33/6	44.9	211	1.15	86	29.8	225	0.84	84	16.0	238	0.48	83	63	71	80	90	100*
	12.75	2.32	33/6	54.9	203	1.10	86	36.5	216	*0.73*	85	19.6	230	*0.40*	84	63	71	80	90	100*
	11.23	2.04	33/6	62.3	200	1.10	86	41.4	213	*0.73*	85	22.3	228	*0.40*	84	63	71	80	90	100*
	9.94	1.81	33/6	70.4	197	1.10	87	46.8	209	*0.73*	86	25.2	227	*0.40*	84	63	71	80	90	100*
	8.48	1.54	33/6	82.5	196	1.10	87	54.8	210	*0.73*	86	29.5	228	*0.40*	85	63	71	80	90	100*
	7.40	1.35	33/6	94.6	187	1.10	88	62.8	202	*0.73*	86	33.8	220	*0.40*	85	63	71	80	90	100*

★ **İşareti belirtilen tahvil oranlarının B14 veya B5 flanşlı gövde bağlantılılar için geçerli olduğunu gösterir.**

★ Sign shows that this reduction ratio is valid for geared motor with B14 and B5 flange

	IEC bağlantısı yoktur - No IEC assembling on empty fields
63	**IEC bağlantısı yapılır -** IEC assembling available on numbered fields
80*	**IEC bağlantısı yapılacaksa P_{1max} değerleri aşılmamalıdır -** Do not exceed the P_{1max} values indicated on fields with asterisk

Tip Type	Tahvil Reduction i_{ges}	Helisel Helical i_1	Sonsuz Worm Z_2/Z_1	W n_1= 1400 min^{-1} n_2 [min^{-1}]	M_{amax} f_B=1 [Nm]	P_{1max} $f_B \geq 1$ [kW]	η [%]	W n_1= 930 min^{-1} n_2 [min^{-1}]	M_{amax} f_B=1 [Nm]	P_{1max} $f_B \geq 1$ [kW]	η [%]	IEC f_B ⇨ 53 - 67					
PSH 3080	3356.08★	65.81	51/1	0.42	770	0.08	45	0.28	786	0.05	45	63*	71*				
	2658.80★	52.13	51/1	0.53	770	0.09	45	0.35	790	0.06	45	63*	71*				
	2059.27★	40.38	51/1	0.68	770	0.12	46	0.45	796	0.08	45	63*	71*				
W - IEC	1199.07	23.51	51/1	1.2	770	0.21	47	0.78	804	0.14	46	63	71*				
mm	955.78	18.74	51/1	1.5	770	0.26	47	1.0	795	0.18	46	63	71*				
96	805.70	15.80	51/1	1.7	770	0.29	48	1.2	800	0.21	47	63	71*				
+	705.97	13.84	51/1	2.0	770	0.33	49	1.3	804	0.23	47	63	71*				
	631.62	12.38	51/1	2.2	770	0.36	49	1.5	802	0.27	47	63	71*				
PAM	543.06	10.65	51/1	2.6	770	0.37	50	1.7	781	*0.24*	48	63	71				
mm	481.23	9.44	51/1	2.9	770	0.37	50	1.9	739	*0.24*	48	63	71				
97	402.93	18.74	43/2	3.5	770	0.37	67	2.3	795	*0.24*	66	63	71				
	339.66	15.80	43/2	4.1	700	0.37	68	2.7	679	*0.24*	66	63	71				
	297.62	13.84	43/2	4.7	610	0.37	68	3.1	601	*0.24*	67	63	71				
	266.27	12.38	43/2	5.3	570	0.37	68	3.5	562	*0.24*	67	63	71				
	228.94	10.65	43/2	6.1	570	0.37	69	4.1	554	*0.24*	67	63	71				
	193.65	18.74	31/3	7.2	450	0.37	78	4.8	448	*0.24*	77	63	71				
	163.25	15.80	31/3	8.6	380	0.37	78	5.7	377	*0.24*	77	63	71				
	143.04	13.84	31/3	9.8	340	0.37	78	6.5	335	*0.24*	77	63	71				
	127.97	12.38	31/3	10.9	300	0.37	79	7.3	299	*0.24*	78	63	71				
	110.03	10.65	31/3	12.7	260	0.37	79	8.5	257	*0.24*	78	63	71				
	97.50	9.44	31/3	14.4	230	0.37	79	9.5	229	*0.24*	78	63	71				
PSH 2080	656.63★	12.88	51/1	2.1	710	0.32	49	1.4	740	0.23	47	63	71*				
	520.20★	10.20	51/1	2.7	710	0.40	50	1.8	737	0.29	48		71	80*			
	402.90★	7.90	51/1	3.5	710	0.51	51	2.3	740	0.36	49		71	80*			
W - IEC	276.81★	12.88	43/2	5.1	710	0.56	68	3.4	740	0.39	67	63	71				
mm	**234.60**	4.60	51/1	6.0	710	0.81	55	4.0	752	0.61	52	63	71	80	90*		
92	**187.00**	3.67	51/1	7.5	670	0.92	57	5.0	706	0.68	54	63	71	80	90*	100*	112*
	157.64	3.09	51/1	8.9	670	1.08	58	5.9	714	0.80	55	63	71	80	90*	100*	112*
+	**138.13**	2.71	51/1	10.1	645	1.14	60	6.7	694	0.87	56	63	71	80	90*	100*	112*
	123.58	2.42	51/1	11.3	620	1.20	61	7.5	671	0.92	57	63	71	80	90*	100*	112*
PAM	**106.25**	2.08	51/1	13.2	590	1.32	62	8.8	643	1.02	58	63	71	80	90*	100*	112*
mm	**94.15**	1.85	51/1	14.9	560	1.39	63	9.9	615	1.08	59	63	71	80	90*	100*	112*
93	**78.83**	3.67	43/2	17.8	655	1.63	75	11.8	690	1.18	72	63	71	80	90	100*	112*
	66.45	3.09	43/2	21.1	630	1.83	76	14.0	672	1.35	73	63	71	80	90	100*	112*
	58.23	2.71	43/2	24.0	600	1.96	77	16.0	646	1.46	74	63	71	80	90	100*	112*
	52.10	2.42	43/2	26.9	575	2.10	77	17.9	622	1.55	75	63	71	80	90	100*	112*
	44.79	2.08	43/2	31.3	550	2.31	78	20.8	600	1.72	76	63	71	80	90	100*	112*
	37.89	3.67	31/3	36.9	550	2.56	83	24.5	580	1.81	82	63	71	80	90	100*	112*
	31.94	3.09	31/3	43.8	525	2.87	84	29.1	560	2.08	82	63	71	80	90	100*	112*
	27.99	2.71	31/3	50.0	510	3.14	85	33.2	549	2.30	83	63	71	80	90	100	112*
	25.04	2.42	31/3	55.9	490	3.37	85	37.1	530	2.48	83	63	71	80	90	100	112*
	21.53	2.08	31/3	65.0	470	3.72	86	43.2	513	2.76	84	63	71	80	90	100	112*
	19.08	1.85	31/3	73.4	455	*4.00*	86	48.7	500	*2.64*	85	63	71	80	90	100	112
	15.97	3.09	31/6	87.7	395	*4.00*	89	58.2	421	*2.64*	88	63	71	80	90	100	112
	13.99	2.71	31/6	100.1	365	*4.00*	89	66.5	393	*2.64*	88	63	71	80	90	100	112
	12.52	2.42	31/6	111.8	345	*4.00*	90	74.3	373	*2.64*	88	63	71	80	90	100	112
	10.76	2.08	31/6	130.1	340	*4.00*	90	86.4	371	*2.64*	89	63	71	80	90	100	112
	9.54	1.85	31/6	146.8	340	*4.00*	90	97.5	374	*2.64*	89	63	71	80	90	100	112
	7.55	1.46	31/6	185.4	295	*4.00*	91	123.2	330	*2.64*	90				90	100	112

★ **İşareti belirtilen tahvil oranlarının B14 veya B5 flanşlı gövde bağlantılılar için geçerli olduğunu gösterir.**
★ Sign shows that this reduction ratio is valid for geared motor with B14 and B5 flange

	IEC bağlantısı yoktur - No IEC assembling on empty fields
63	**IEC bağlantısı yapılır -** IEC assembling available on numbered fields
80*	**IEC bağlantısı yapılacaksa P_{1max} değerleri aşılmamalıdır -** Do not exceed the P_{1max} values indicated on fields with asterisk

Tip / Type	Tahvil Reduction i_{ges}	Helisel Helical i_1	Sonsuz Worm Z_2/Z_1	W n_1= 700 min^{-1} n_2 [min^{-1}]	M_{amax} f_B=1 [Nm]	P_{1max} $f_B\geq1$ [kW]	η [%]	W n_1= 465 min^{-1} n_2 [min^{-1}]	M_{amax} f_B=1 [Nm]	P_{1max} $f_B\geq1$ [kW]	η [%]	W n_1= 250 min^{-1} n_2 [min^{-1}]	M_{amax} f_B=1 [Nm]	P_{1max} $f_B\geq1$ [kW]	η [%]	IEC f_B ⇨ 📖 53 - 67					
PSH 3080	3356.08★	65.81	51/1	0.21	793	0.04	45	0.14	857	0.03	45	0.07	918	0.02	44	63*	71*				
	2658.80★	52.13	51/1	0.26	800	0.05	45	0.17	835	0.03	45	0.09	912	0.02	44	63*	71*				
	2059.27★	40.38	51/1	0.34	809	0.06	45	0.23	823	0.04	45	0.12	905	0.03	44	63*	71*				
W - IEC	1199.07	23.51	51/1	0.58	828	0.11	46	0.39	853	0.08	45	0.21	874	0.04	45	63	71*				
mm	955.78	18.74	51/1	0.73	825	0.14	46	0.49	858	0.10	45	0.26	884	0.05	45	63	71*				
📖 96	805.70	15.80	51/1	0.87	823	0.16	46	0.58	862	0.11	46	0.31	894	0.06	45	63	71*				
+	705.97	13.84	51/1	1.0	821	0.19	46	0.66	866	0.13	46	0.35	902	0.07	45	63	71*				
PAM	631.62	12.38	51/1	1.1	821	0.20	47	0.74	863	0.15	46	0.40	851	0.08	45	63	71*				
mm	543.06	10.65	51/1	1.3	764	0.19	47	0.86	748	0.12	46	0.46	732	*0.07*	45	63	71				
📖 97	481.23	9.44	51/1	1.5	724	0.19	47	1.0	709	0.12	46	0.52	693	*0.07*	45	63	71				
	402.93	18.74	43/2	1.7	798	0.19	66	1.2	786	0.12	65	0.62	786	*0.07*	65	63	71*				
	339.66	15.80	43/2	2.1	679	0.19	66	1.4	669	0.12	65	0.74	669	*0.07*	65	63	71				
	297.62	13.84	43/2	2.4	592	0.19	66	1.6	583	0.12	65	0.84	583	*0.07*	65	63	71				
	266.27	12.38	43/2	2.6	554	0.19	66	1.7	554	0.12	66	0.94	545	*0.07*	65	63	71				
	228.94	10.65	43/2	3.1	554	0.19	67	2.0	545	0.12	66	1.1	537	*0.07*	65	63	71				
	193.65	18.74	31/3	3.6	442	0.19	76	2.4	442	0.12	76	1.3	442	*0.07*	76	63	71				
	163.25	15.80	31/3	4.3	377	0.19	77	2.8	372	0.12	76	1.5	372	*0.07*	76	63	71				
	143.04	13.84	31/3	4.9	335	0.19	77	3.3	331	0.12	76	1.7	331	*0.07*	76	63	71				
	127.97	12.38	31/3	5.5	295	0.19	77	3.6	291	0.12	76	2.0	291	*0.07*	76	63	71				
	110.03	10.65	31/3	6.4	254	0.19	77	4.2	254	0.12	77	2.3	250	*0.07*	76	63	71				
	97.50	9.44	31/3	7.2	229	0.19	78	4.8	226	0.12	77	2.6	223	*0.07*	76	63	71				
PSH 2080	656.63★	12.88	51/1	1.1	757	0.19	47	0.71	797	0.13	46	0.38	833	0.07	45	63	71*				
	520.20★	10.20	51/1	1.3	759	0.22	47	0.89	791	0.16	46	0.48	838	0.09	45		71	80*			
	402.90★	7.90	51/1	1.7	761	0.28	48	1.2	792	0.21	47	0.62	844	0.12	46		71	80*			
W - IEC	276.81★	12.88	43/2	2.5	731	0.29	66	1.7	731	0.20	66	0.90	720	0.10	65	63	71				
mm	**234.60**	4.60	51/1	3.0	779	0.49	50	2.0	810	0.35	48	1.1	857	0.21	47	63	71	80*	90*		
📖 92	**187.00**	3.67	51/1	3.7	739	0.55	52	2.5	775	0.41	49	1.3	820	0.24	47	63	71	80	90*	100*	112*
+	**157.64**	3.09	51/1	4.4	742	0.65	53	2.9	787	0.48	50	1.6	832	0.29	48	63	71	80	90*	100*	112*
	138.13	2.71	51/1	5.1	719	0.71	54	3.4	767	0.54	51	1.8	811	0.32	48	63	71	80	90*	100*	112*
PAM	**123.58**	2.42	51/1	5.7	698	0.76	55	3.8	743	0.57	52	2.0	787	0.34	49	63	71	80	90*	100*	112*
mm	**106.25**	2.08	51/1	6.6	674	0.83	56	4.4	716	0.62	53	2.4	767	0.39	49	63	71	80	90*	100*	112*
📖 93	**94.15**	1.85	51/1	7.4	649	0.88	57	4.9	688	0.67	53	2.7	744	0.42	50	63	71	80	90*	100*	112*
	78.83	3.67	43/2	8.9	722	0.95	71	5.9	758	0.68	69	3.2	802	0.40	67	63	71	80	90*	100*	112*
	66.45	3.09	43/2	10.5	698	1.07	72	7.0	740	0.79	69	3.8	783	0.47	67	63	71	80	90*	100*	112*
	58.23	2.71	43/2	12.0	668	1.17	72	8.0	713	0.85	70	4.3	754	0.50	68	63	71	80	90	100*	112*
	52.10	2.42	43/2	13.4	647	1.24	73	8.9	689	0.92	70	4.8	730	0.54	68	63	71	80	90	100*	112*
	44.79	2.08	43/2	15.6	629	1.39	74	10.4	668	1.02	71	5.6	715	0.61	69	63	71	80	90	100*	112*
	37.89	3.67	31/3	18.5	607	1.47	80	12.3	636	1.04	79	6.6	673	0.60	77	63	71	80	90	100*	112*
	31.94	3.09	31/3	21.9	582	1.65	81	14.6	616	1.19	79	7.8	652	0.68	78	63	71	80	90	100*	112*
	27.99	2.71	31/3	25.0	568	1.81	82	16.6	606	1.32	80	8.9	641	0.77	78	63	71	80	90	100*	112*
	25.04	2.42	31/3	28.0	551	1.97	82	18.6	587	1.43	80	10.0	622	0.84	78	63	71	80	90	100*	112*
	21.53	2.08	31/3	32.5	537	2.20	83	21.6	571	1.59	81	11.6	611	0.94	79	63	71	80	90	100*	112*
	19.08	1.85	31/3	36.7	528	2.00	83	24.4	559	1.32	81	13.1	604	*0.72*	79	63	71	80	90	100	112*
	15.97	3.09	31/6	43.8	417	2.00	87	29.1	408	1.32	85	15.7	403	*0.72*	84	63	71	80	90	100	112*
	13.99	2.71	31/6	50.0	407	2.00	87	33.2	409	1.32	86	17.9	399	*0.72*	84	63	71	80	90	100	112*
	12.52	2.42	31/6	55.9	388	2.00	87	37.1	406	1.32	86	20.0	401	*0.72*	85	63	71	80	90	100	112*
	10.76	2.08	31/6	65.1	389	2.00	88	43.2	406	1.32	87	23.2	397	*0.72*	85	63	71	80	90	100	112*
	9.54	1.85	31/6	73.4	394	2.00	88	48.7	402	1.32	87	26.2	393	*0.72*	85	63	71	80	90	100	112*
	7.55	1.46	31/6	92.7	351	2.00	89	61.6	377	1.32	88	33.1	390	*0.72*	86				90	100	112*

★ **İşareti belirtilen tahvil oranlarının B14 veya B5 flanşlı gövde bağlantılılar için geçerli olduğunu gösterir.**

★ Sign shows that this reduction ratio is valid for geared motor with B14 and B5 flange

	IEC bağlantısı yoktur - No IEC assembling on empty fields
63	**IEC bağlantısı yapılır -** IEC assembling available on numbered fields
80*	**IEC bağlantısı yapılacaksa P_{1max} değerleri aşılmamalıdır -** Do not exceed the P_{1max} values indicated on fields with asterisk

Tip Type	Tahvil Reduction i_{ges}	Helisel Helical i_1	Sonsuz Worm Z_2/Z_1	W n_1= 1400 min^{-1} n_2 [min^{-1}]	M_{amax} f_B=1 [Nm]	P_{1max} $f_B \geq 1$ [kW]	η [%]	W n_1= 930 min^{-1} n_2 [min^{-1}]	M_{amax} f_B=1 [Nm]	P_{1max} $f_B \geq 1$ [kW]	η [%]	IEC f_B ⇨ 53 - 67					
PSH 3100	5876.67	117.53	50/1	0.24	1590	0.09	45	0.16	1682	0.06	45	63*	71*				
	4646.67	92.93	50/1	0.30	1590	0.11	46	0.20	1612	0.08	45	63*	71*				
	3735.56	74.71	50/1	0.37	1590	0.13	46	0.25	1618	0.09	45	63*	71*				
W - IEC mm 104	2201.85	44.04	50/1	0.64	1590	0.23	47	0.42	1640	0.16	46	63	71*				
	1670.37	33.41	50/1	0.84	1590	0.30	47	0.56	1657	0.21	46	63	71*				
	1506.84	30.14	50/1	0.93	1590	0.32	48	0.62	1666	0.23	47	63	71*				
+	1173.93	23.48	50/1	1.2	1590	0.42	48	0.79	1661	0.29	47	63	71				
	660.00	13.20	50/1	2.1	1590	0.69	51	1.4	1659	0.50	49	63	71	80*	90*		
PAM mm 105	**519.44**	10.39	50/1	2.7	1590	0.86	52	1.8	1651	0.62	50	63	71	80	90*		
	468.59	9.37	50/1	3.0	1590	0.94	53	2.0	1647	0.69	50	63	71	80	90*		
	365.06	7.30	50/1	3.8	1510	1.09	55	2.5	1580	0.80	52	63	71	80	90*		
	298.69	5.97	50/1	4.7	1510	1.33	56	3.1	1599	0.98	53	63	71	80	90*		
	257.40	13.20	39/2	5.4	1510	1.22	70	3.6	1575	0.86	69	63	71	80	90*		
	182.75	9.37	39/2	7.7	1420	*1.50*	72	5.1	1471	*0.99*	70	63	71	80			
	142.38	7.30	39/2	9.8	1310	*1.50*	74	6.5	1371	*0.99*	71	63	71	80	90		
	121.20	10.39	35/3	11.6	1190	*1.50*	80	7.7	1236	*0.99*	78	63	71	80	90		
	109.34	9.37	35/3	12.8	1190	*1.50*	80	8.5	1232	*0.99*	79	63	71	80	90		
	85.18	7.30	35/3	16.4	1080	*1.50*	81	10.9	1130	*0.99*	80	63	71	80	90		
	69.69	5.97	35/3	20.1	1080	*1.50*	82	13.3	1143	*0.99*	80	63	71	80	90		
	53.68	10.39	31/6	26.1	690	*1.50*	86	17.3	696	*0.99*	85	63	71	80	90		
PSH 2100	645.00	12.90	50/1	2.2	1420	0.64	51	1.4	1481	0.44	49	71	80*	90*			
	510.00	10.20	50/1	2.7	1420	0.77	52	1.8	1474	0.56	50		80	90*			
	410.00	8.20	50/1	3.4	1355	0.89	54	2.3	1410	0.67	51			90*	100*	112*	
W - IEC mm 100	303.85	6.08	50/1	4.6	1420	1.22	56	3.1	1502	0.92	53			90*			
	241.67	4.83	50/1	5.8	1420	1.49	58	3.8	1506	1.09	55	71	80	90*	100*	112*	
	183.33	3.67	50/1	7.6	1365	1.78	61	5.1	1439	1.35	57	71	80	90	100*	112*	
+	**165.38**	3.31	50/1	8.5	1330	1.91	62	5.6	1411	1.43	58	71	80	90	100*	112*	
	128.85	2.58	50/1	10.9	1240	2.18	65	7.2	1337	1.68	60	71	80	90	100*	112*	132*
PAM mm 101	**103.85**	2.08	50/1	13.5	1170	2.47	67	9.0	1276	1.91	63			90	100*	112*	132*
	94.25	4.83	39/2	14.9	1310	2.69	76	9.9	1389	1.95	74	71	80	90	100*	112*	
	71.50	3.67	39/2	19.6	1220	3.21	78	13.0	1286	2.33	75	71	80	90	100	112*	
	64.50	3.31	39/2	21.7	1190	3.42	79	14.4	1263	2.51	76	71	80	90	100	112*	
	50.25	2.58	39/2	27.9	1110	4.05	80	18.5	1197	2.97	78	71	80	90	100	112	132*
	42.78	3.67	35/3	32.7	1100	4.43	85	21.7	1159	3.17	83	71	80	90	100	112	
	38.59	3.31	35/3	36.3	1100	4.92	85	24.1	1167	3.55	83	71	80	90	100	112	
	34.29	1.76	39/2	40.8	1090	5.61	83	27.1	1202	4.26	80			90	100	112	132*
	30.06	2.58	35/3	46.6	1050	5.96	86	30.9	1132	4.36	84	71	80	90	100	112	132*
	24.23	2.08	35/3	57.8	1020	7.10	87	38.4	1112	5.26	85			90	100	112	132*
	20.52	1.76	35/3	68.2	840	6.82	88	45.3	926	5.11	86			90	100	112	132*
	18.94	3.67	31/6	73.9	720	6.19	90	49.1	721	4.21	88	71	80	90	100	112	132*
	17.09	3.31	31/6	81.9	710	6.77	90	54.4	725	4.64	89	71	80	90	100	112	132*
	16.25	1.39	35/3	86.2	750	*7.50*	89	57.2	844	*4.95*	87			90	100	112	132*
	13.31	2.58	31/6	105.2	710	*7.50*	91	69.9	712	*4.95*	89	71	80	90	100	112	132*
	10.73	2.08	31/6	130.5	725	*7.50*	91	86.7	717	*4.95*	90			90	100	112	132*
	9.09	1.76	31/6	154.0	725	*7.50*	92	102.3	717	*4.95*	91			90	100	112	132*
	7.20	1.39	31/6	194.4	680	*7.50*	92	129.2	680	*4.95*	91			90	100	112	132*

	IEC bağlantısı yoktur - No IEC assembling on empty fields
63	**IEC bağlantısı yapılır -** IEC assembling available on numbered fields
80*	**IEC bağlantısı yapılacaksa P_{1max} değerleri aşılmamalıdır -** Do not exceed the P_{1max} values indicated on fields with asterisk

Tip / Type	Tahvil Reduction i_{ges}	Helisel Helical i_1	Sonsuz Worm Z_2/Z_1	W n_1= 700 min^{-1} n_2 [min^{-1}]	M_{amax} f_B=1 [Nm]	P_{1max} $f_B \geq 1$ [kW]	η [%]	W n_1= 465 min^{-1} n_2 [min^{-1}]	M_{amax} f_B=1 [Nm]	P_{1max} $f_B \geq 1$ [kW]	η [%]	W n_1= 250 min^{-1} n_2 [min^{-1}]	M_{amax} f_B=1 [Nm]	P_{1max} $f_B \geq 1$ [kW]	η [%]	IEC f_B ⇨ 53 - 67					
PSH 3100	5876.67	117.53	50/1	0.12	1760	0.05	45	0.08	1845	0.03	45	0.04	1913	0.02	45	63*	71*				
	4646.67	92.93	50/1	0.15	1712	0.06	45	0.10	1820	0.04	45	0.05	1907	0.02	45	63*	71*				
	3735.56	74.71	50/1	0.19	1655	0.07	45	0.12	1791	0.05	45	0.07	1900	0.03	45	63*	71*				
W - IEC	2201.85	44.04	50/1	0.32	1664	0.12	46	0.21	1690	0.08	45	0.11	1874	0.05	45	63	71*				
mm	1670.37	33.41	50/1	0.42	1690	0.16	46	0.28	1726	0.11	46	0.15	1853	0.06	45	63	71*				
104	1506.84	30.14	50/1	0.46	1703	0.18	46	0.31	1743	0.12	46	0.17	1843	0.07	45	63	71*				
	1173.93	23.48	50/1	0.60	1710	0.23	47	0.40	1762	0.16	46	0.21	1805	0.09	45	63	71				
+	**660.00**	13.20	50/1	1.1	1695	0.41	48	0.70	1785	0.28	47	0.38	1865	0.16	46	63	71	80*	90*		
PAM	**519.44**	10.39	50/1	1.3	1698	0.47	49	0.90	1772	0.36	47	0.48	1875	0.20	46	63	71	80	90*		
mm	**468.59**	9.37	50/1	1.5	1700	0.54	49	1.0	1764	0.38	48	0.53	1880	0.23	46	63	71	80	90*		
105	**365.06**	7.30	50/1	1.9	1619	0.64	50	1.3	1692	0.48	48	0.68	1800	0.27	47	63	71	80	90*		
	298.69	5.97	50/1	2.3	1642	0.78	51	1.6	1715	0.59	49	0.84	1815	0.34	47	63	71	80	90*		
	257.40	13.20	39/2	2.7	1610	0.67	68	1.8	1696	0.48	67	1.0	1771	0.27	66	63	71	80	90*		
	182.75	9.37	39/2	3.8	1518	0.75	69	2.5	1576	*0.50*	68	1.4	1679	0.27	67	63	71	80	90*		
	142.38	7.30	39/2	4.9	1405	0.75	70	3.3	1468	*0.50*	68	1.8	1562	0.27	67	63	71	80	90		
	121.20	10.39	35/3	5.8	1271	0.75	78	3.8	1326	*0.50*	77	2.1	1403	0.27	76	63	71	80	90		
	109.34	9.37	35/3	6.4	1272	0.75	78	4.3	1320	*0.50*	77	2.3	1397	0.27	76	63	71	80	90		
	85.18	7.30	35/3	8.2	1158	0.75	79	5.5	1210	*0.50*	77	2.9	1287	0.27	76	63	71	80	90		
	69.69	5.97	35/3	10.0	1174	0.75	79	6.7	1227	*0.50*	78	3.6	1298	0.27	76	63	71	80	90		
	53.68	10.39	31/6	13.0	688	0.75	84	8.7	688	*0.50*	84	4.7	680	0.27	83	63	71	80	90		
PSH 2100	645.00	12.90	50/1	1.1	1514	0.36	48	0.72	1593	0.26	47	0.39	1666	0.15	46		80*	90*			
	510.00	10.20	50/1	1.4	1517	0.45	49	0.91	1581	0.32	47	0.49	1675	0.19	46		80	90*			
	410.00	8.20	50/1	1.7	1451	0.52	50	1.1	1508	0.36	48	0.61	1609	0.22	47			90*	100*	112*	
W - IEC	303.85	6.08	50/1	2.3	1542	0.73	51	1.5	1611	0.52	49	0.82	1706	0.31	47			90*			
mm	**241.67**	4.83	50/1	2.9	1558	0.89	53	1.9	1621	0.65	50	1.0	1709	0.37	48	71	80	90*	100*	112*	
100	**183.33**	3.67	50/1	3.8	1505	1.09	55	2.5	1579	0.79	52	1.4	1671	0.50	49	71	80	90	100*	112*	
	165.38	3.31	50/1	4.2	1470	1.18	55	2.8	1552	0.88	52	1.5	1642	0.53	49	71	80	90	100*	112*	
+	**128.85**	2.58	50/1	5.4	1387	1.35	58	3.6	1479	1.03	54	1.9	1564	0.62	50	71	80	90	100*	112*	132*
PAM	**103.85**	2.08	50/1	6.7	1337	1.56	60	4.5	1420	1.19	56	2.4	1521	0.75	51			90	100*	112*	132*
mm	**94.25**	4.83	39/2	7.4	1437	1.55	72	4.9	1495	1.10	70	2.7	1576	0.65	68	71	80	90	100*	112*	
101	**71.50**	3.67	39/2	9.8	1345	1.89	73	6.5	1412	1.35	71	3.5	1494	0.79	69	71	80	90	100*	112*	
	64.50	3.31	39/2	10.9	1316	2.03	74	7.2	1389	1.45	72	3.9	1469	0.87	69	71	80	90	100*	112*	
	50.25	2.58	39/2	13.9	1242	2.38	76	9.3	1324	1.77	73	5.0	1400	1.05	70	71	80	90	100	112*	132*
	42.78	3.67	35/3	16.4	1213	2.57	81	10.9	1273	1.84	79	5.8	1347	1.05	78	71	80	90	100	112*	
	38.59	3.31	35/3	18.1	1216	2.81	82	12.0	1284	2.02	80	6.5	1358	1.18	78	71	80	90	100	112*	
	34.29	1.76	39/2	20.4	1269	3.48	78	13.6	1346	2.56	75	7.3	1459	1.55	72			90	100	112	132*
	30.06	2.58	35/3	23.3	1175	3.45	83	15.5	1252	2.51	81	8.3	1324	1.46	79	71	80	90	100	112	132*
	24.23	2.08	35/3	28.9	1166	4.20	84	19.2	1238	3.04	82	10.3	1326	1.81	79			90	100	112	132*
	20.52	1.76	35/3	34.1	978	4.11	85	22.7	1037	2.97	83	12.2	1125	1.80	80			90	100	112	132*
	18.94	3.67	31/6	37.0	712	3.17	87	24.6	704	2.11	86	13.2	688	1.13	84	71	80	90	100	112	132
	17.09	3.31	31/6	41.0	717	3.50	88	27.2	700	2.32	86	14.6	692	1.24	85	71	80	90	100	112	
	16.25	1.39	35/3	43.1	897	*3.75*	86	28.6	968	*2.48*	84	15.4	1051	*1.35*	81	71	80	90	100	112	132*
	13.31	2.58	31/6	52.6	712	*3.75*	89	34.9	696	*2.48*	87	18.8	680	*1.35*	85	71	80	90	100	112	132*
	10.73	2.08	31/6	65.2	709	*3.75*	89	43.3	701	*2.48*	88	23.3	685	*1.35*	86			90	100	112	132*
	9.09	1.76	31/6	77.0	709	*3.75*	90	51.2	694	*2.48*	88	27.5	678	*1.35*	86			90	100	112	132*
	7.20	1.39	31/6	97.2	680	*3.75*	91	64.6	665	*2.48*	89	34.7	650	*1.35*	87			90	100	112	132*

	IEC bağlantısı yoktur - No IEC assembling on empty fields
63	**IEC bağlantısı yapılır -** IEC assembling available on numbered fields
80*	**IEC bağlantısı yapılacaksa P_{1max} değerleri aşılmamalıdır -** Do not exceed the P_{1max} values indicated on fields with asterisk

Tip Type	Tahvil Reduction i_{ges}	Helisel Helical i_1	Sonsuz Worm Z_2/Z_1	W n_1= 1400 min^{-1}				W n_1= 930 min^{-1}				IEC f_B ⇨ 📖 53 - 67					
				n_2	M_{amax} f_B=1	P_{1max} f_B≥1	η	n_2	M_{amax} f_B=1	P_{1max} f_B≥1	η						
				[min^{-1}]	[Nm]	[kW]	[%]	[min^{-1}]	[Nm]	[kW]	[%]						
PSH 3125 **W - IEC** mm 📖 112 + **PAM** mm 📖 113	7095.12	150.96	47/1	0.20	3000	0.13	47	0.13	3000	0.09	47	71*	80*	90*			
	5055.49	107.56	47/1	0.28	3090	0.19	48	0.18	3222	0.13	47	71*	80*	90*			
	3442.96	73.25	47/1	0.41	3090	0.28	48	0.27	3146	0.19	48	71*	80*	90*			
	2527.75	53.78	47/1	0.55	3090	0.36	49	0.37	3168	0.26	48	71*	80*	90*			
	2057.43	43.78	47/1	0.68	3090	0.45	49	0.45	3187	0.31	48	71	80*	90*			
	1862.28	39.62	47/1	0.75	3090	0.50	49	0.50	3198	0.35	48	71	80*	90*			
	1637.95	34.85	47/1	0.85	3090	0.55	50	0.57	3215	0.39	49	71	80*	90*			
	1475.08	31.38	47/1	0.95	3090	0.61	50	0.63	3230	0.43	49	71	80*	90*			
	1198.50	25.50	47/1	1.2	3090	0.76	51	0.78	3239	0.54	49	71	80	90*			
	928.25	19.75	47/1	1.5	3090	0.93	52	1.0	3200	0.67	50		80	90*			
	793.81	16.89	47/1	1.8	3090	1.10	53	1.2	3201	0.79	51		80	90*			
	690.49	30.69	45/2	2.0	2830	0.87	68	1.3	2962	0.60	67		80	90*			
	607.31	26.99	45/2	2.3	2670	0.95	68	1.5	2805	0.66	67		80	90*			
	546.92	24.31	45/2	2.6	3090	1.22	69	1.7	3233	0.86	67		80	90*			
	444.38	19.75	45/2	3.2	2990	1.45	69	2.1	3022	0.98	68		80	90*			
	380.02	16.89	45/2	3.7	2610	1.44	70	2.4	2625	0.96	69		80	90*			
	323.00	14.39	45/2	4.3	2400	1.52	71	2.9	2332	1.03	69		80	90			
	270.16	12.01	45/2	5.2	2810	2.13	72	3.4	2926	1.49	70	71	80	90	100*	112*	
	236.72	10.52	45/2	5.9	2810	2.38	73	3.9	2918	1.70	70	71	80	90	100*	112*	
	187.50	8.33	45/2	7.5	2590	2.75	74	5.0	2694	1.96	72	71	80	90	100*	112*	
	152.34	6.77	45/2	9.2	2590	3.28	76	6.1	2721	2.38	73	71	80	90	100	112*	
	130.28	5.79	45/2	10.7	2480	3.61	77	7.1	2631	2.64	74	71	80	90	100	112*	
	110.99	4.93	45/2	12.6	2370	*4.00*	78	8.4	2514	2.64	75	71	80	90	100	112	
	86.11	8.33	31/3	16.3	1760	3.62	83	10.8	1830	2.55	81	71	80	90	100	112*	
	69.97	6.77	31/3	20.0	1560	3.89	84	13.3	1639	2.78	82	71	80	90	100	112*	
	62.60	6.06	31/3	22.4	1570	*4.00*	85	14.9	1661	2.64	83	71	80	90	100	112	

	IEC bağlantısı yoktur - No IEC assembling on empty fields
63	**IEC bağlantısı yapılır -** IEC assembling available on numbered fields
80*	**IEC bağlantısı yapılacaksa P_{1max} değerleri aşılmamalıdır -** Do not exceed the P_{1max} values indicated on fields with asterisk

Tip / Type	Tahvil Reduction i_{ges}	Helisel Helical i_1	Sonsuz Worm Z_2/Z_1	W n_1= 700 min^{-1} n_2 [min^{-1}]	M_{amax} f_B=1 [Nm]	P_{1max} $f_B \geq 1$ [kW]	η [%]	W n_1= 465 min^{-1} n_2 [min^{-1}]	M_{amax} f_B=1 [Nm]	P_{1max} $f_B \geq 1$ [kW]	η [%]	W n_1= 250 min^{-1} n_2 [min^{-1}]	M_{amax} f_B=1 [Nm]	P_{1max} $f_B \geq 1$ [kW]	η [%]	IEC f_B ⇨ 53 - 67				
PSH 3125	7095.12	150.96	47/1	0.10	3000	0.07	47	0.07	3000	0.05	47	0.04	3000	0.03	47	71*	80*	90*		
	5055.49	107.56	47/1	0.14	3388	0.11	47	0.09	3569	0.07	47	0.05	3714	0.04	47	71*	80*	90*		
	3442.96	73.25	47/1	0.20	3204	0.14	47	0.14	3475	0.11	47	0.07	3691	0.06	47	71*	80*	90*		
W - IEC	2527.75	53.78	47/1	0.28	3206	0.20	48	0.18	3364	0.13	47	0.10	3665	0.08	47	71	80*	90*		
mm	2057.43	43.78	47/1	0.34	3235	0.24	48	0.23	3286	0.17	47	0.12	3641	0.10	47	71	80*	90*		
112	1862.28	39.62	47/1	0.38	3252	0.27	48	0.25	3309	0.18	47	0.13	3628	0.11	47	71	80*	90*		
	1637.95	34.85	47/1	0.43	3276	0.31	48	0.28	3342	0.20	48	0.15	3608	0.12	47	71	80*	90*		
+	1475.08	31.38	47/1	0.47	3299	0.34	48	0.32	3374	0.24	48	0.17	3589	0.14	47	71	80*	90*		
PAM	1198.50	25.50	47/1	0.58	3325	0.41	49	0.39	3420	0.29	48	0.21	3380	0.16	47	71	80*	90*		
mm	928.25	19.75	47/1	0.75	3315	0.53	49	0.50	3439	0.38	48	0.27	3538	0.21	48		80	90*		
113	793.81	16.89	47/1	0.88	3306	0.61	50	0.59	3453	0.44	49	0.31	3571	0.24	48		80	90*		
	690.49	30.69	45/2	1.0	3027	0.48	66	0.67	3097	0.33	66	0.36	3282	0.19	65		80	90*		
	607.31	26.99	45/2	1.2	2875	0.54	67	0.77	2952	0.36	66	0.41	3063	0.20	65		80	90*		
	546.92	24.31	45/2	1.3	3324	0.68	67	0.85	3396	0.46	66	0.46	3396	0.25	66		80	90*		
	444.38	19.75	45/2	1.6	2977	0.74	67	1.0	2933	0.47	66	0.56	2933	0.26	66		80	90*		
	380.02	16.89	45/2	1.8	2587	0.72	68	1.2	2549	0.48	67	0.66	2511	0.26	66		80	90*		
	323.00	14.39	45/2	2.2	2298	0.78	68	1.4	2265	0.50	67	0.77	2231	0.27	66		80	90*		
	270.16	12.01	45/2	2.6	2998	1.18	69	1.7	3146	0.84	67	0.93	3302	0.49	66	71	80	90	100*	112*
	236.72	10.52	45/2	3.0	3001	1.37	69	2.0	3132	0.96	68	1.1	3312	0.58	66	71	80	90	100*	112*
	187.50	8.33	45/2	3.7	2772	1.53	70	2.5	2880	1.11	68	1.3	3073	0.62	67	71	80	90	100*	112*
	152.34	6.77	45/2	4.6	2786	1.89	71	3.1	2916	1.37	69	1.6	3096	0.77	67	71	80	90	100*	112*
	130.28	5.79	45/2	5.4	2705	2.12	72	3.6	2824	1.52	70	1.9	2986	0.87	68	71	80	90	100	112*
	110.99	4.93	45/2	6.3	2599	*2.00*	73	4.2	2706	*1.32*	71	2.3	2849	*0.72*	68	71	80	90	100	112*
	86.11	8.33	31/3	8.1	1884	2.00	80	5.4	1866	1.34	79	2.9	1842	0.72	78	71	80	90	100	112*
	69.97	6.77	31/3	10.0	1678	2.17	81	6.6	1756	1.52	80	3.6	1810	0.87	78	71	80	90	100	112*
	62.60	6.06	31/3	11.2	1705	*2.00*	82	7.4	1782	*1.32*	80	4.0	1810	*0.72*	78	71	80	90	100	112

	IEC bağlantısı yoktur - No IEC assembling on empty fields
63	**IEC bağlantısı yapılır -** IEC assembling available on numbered fields
80*	**IEC bağlantısı yapılacaksa P_{1max} değerleri aşılmamalıdır -** Do not exceed the P_{1max} values indicated on fields with asterisk

Tip Type	Tahvil Reduction i_{ges}	Helisel Helical i_1	Sonsuz Worm Z_2/Z_1	W n_1= 1400 min^{-1} n_2 [min^{-1}]	M_{amax} f_B=1 [Nm]	P_{1max} $f_B \geq 1$ [kW]	η [%]	W n_1= 930 min^{-1} n_2 [min^{-1}]	M_{amax} f_B=1 [Nm]	P_{1max} $f_B \geq 1$ [kW]	η [%]	IEC f_B ⇨ 53 - 67					
PSH 2125	695.60	14.80	47/1	2.0	2850	1.11	54	1.3	2968	0.79	51	90*					
	495.64	10.55	47/1	2.8	2850	1.49	56	1.9	2960	1.11	53	90*	100*	112*			
	337.55	7.18	47/1	4.1	2850	2.07	59	2.8	2985	1.56	56		100*	112*	132*		
W - IEC	247.82	5.27	47/1	5.6	2760	2.61	62	3.8	2932	2.01	58				132*		
mm	**201.71**	4.29	47/1	6.9	2630	2.92	65	4.6	2781	2.23	60	90	100*	112*			
108	**182.58**	3.88	47/1	7.7	2560	3.13	66	5.1	2700	2.36	61	90	100	112*			
+	**160.58**	3.42	47/1	8.7	2470	3.36	67	5.8	2615	2.52	63	90	100	112*			
PAM	**144.62**	3.08	47/1	9.7	2390	3.57	68	6.4	2549	2.67	64	90	100	112*	132*	160*	
mm	**117.50**	2.50	47/1	11.9	2240	3.93	71	7.9	2419	3.03	66	90	100	112*	132*	160*	
109	**100.48**	2.14	47/1	13.9	2130	4.31	72	9.3	2319	3.32	68	90	100	112	132*	160*	
	87.40	3.88	45/2	16.0	2360	4.94	80	10.6	2489	3.59	77	90	100	112	132*		
	76.88	3.42	45/2	18.2	2290	5.39	81	12.1	2424	3.94	78	90	100	112	132*		
	69.23	3.08	45/2	20.2	2220	5.80	81	13.4	2368	4.26	78	90	100	112	132*	160*	
	56.25	2.50	45/2	24.9	2060	6.47	83	16.5	2225	4.81	80	90	100	112	132*	160*	
	48.10	2.14	45/2	29.1	1960	7.11	84	19.3	2134	5.32	81	90	100	112	132*	160*	
	40.98	1.82	45/2	34.2	1840	7.75	85	22.7	2024	5.87	82	90	100	112	132*	160*	
	35.31	3.42	31/3	39.6	1600	7.54	88	26.3	1694	5.42	86	90	100	112	132*		
	31.79	3.08	31/3	44.0	1840	9.63	88	29.3	1962	7.00	86	90	100	112	132	160*	
	25.83	2.50	31/3	54.2	1710	10.90	89	36.0	1847	8.00	87	90	100	112	132	160*	
	22.09	2.14	31/3	63.4	1610	11.88	90	42.1	1753	8.78	88	90	100	112	132	160*	
	18.82	1.82	31/3	74.4	1510	13.07	90	49.4	1661	9.66	89	90	100	112	132	160*	
	15.90	3.08	31/6	88.1	1240	12.43	92	58.5	1300	8.85	90	90	100	112	132	160*	
	14.54	1.41	31/3	96.3	1340	14.85	91	64.0	1506	11.21	90				132	160*	
	12.92	2.50	31/6	108.4	1240	*15.00*	92	72.0	1314	*9.90*	91	90	100	112	132	160	
	11.05	2.14	31/6	126.7	1240	*15.00*	93	84.2	1297	*9.90*	92	90	100	112	132	160	
	9.41	1.82	31/6	148.8	1140	*15.00*	93	98.8	1254	*9.90*	92	90	100	112	132	160	
	8.44	1.63	31/6	165.9	1140	*15.00*	93	110.2	1234	*9.90*	92				132	160	
	7.75	1.50	31/6	180.6	1010	*15.00*	93	120.0	1129	*9.90*	93				132	160	
	7.27	1.41	31/6	192.6	940	*15.00*	93	127.9	1057	*9.90*	93				132	160	

	IEC bağlantısı yoktur - No IEC assembling on empty fields
63	**IEC bağlantısı yapılır -** IEC assembling available on numbered fields
80*	**IEC bağlantısı yapılacaksa P_{1max} değerleri aşılmamalıdır -** Do not exceed the P_{1max} values indicated on fields with asterisk

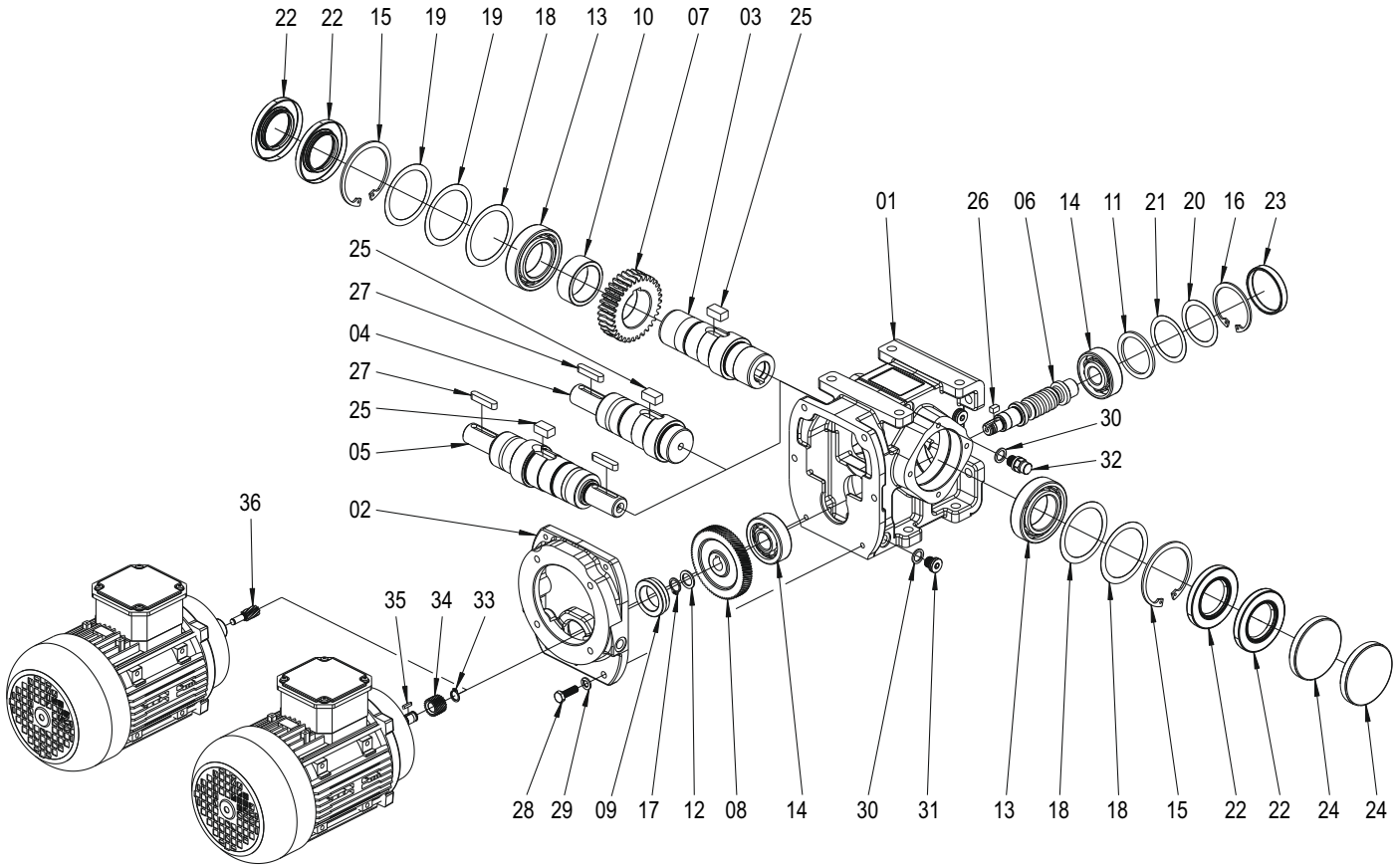
Tip Type	Tahvil Reduction i_{ges}	Helisel Helical i_1	Sonsuz Worm Z_2/Z_1	W n_1= 700 min^{-1} n_2 [min^{-1}]	M_{amax} f_B=1 [Nm]	P_{1max} $f_B \geq 1$ [kW]	η [%]	W n_1= 465 min^{-1} n_2 [min^{-1}]	M_{amax} f_B=1 [Nm]	P_{1max} $f_B \geq 1$ [kW]	η [%]	W n_1= 250 min^{-1} n_2 [min^{-1}]	M_{amax} f_B=1 [Nm]	P_{1max} $f_B \geq 1$ [kW]	η [%]	IEC f_B ⇨ 53 - 67				
PSH 2125	695.60	14.80	47/1	1.0	3041	0.64	50	0.67	3068	0.44	49	0.36	3005	0.24	48	90*				
	495.64	10.55	47/1	1.4	3044	0.86	52	0.94	3177	0.63	50	0.50	3359	0.37	48	90*	100*	112*		
	337.55	7.18	47/1	2.1	3056	1.24	54	1.4	3196	0.92	51	0.74	3399	0.54	49		100*	112*	132*	
W - IEC	247.82	5.27	47/1	2.8	3023	1.58	56	1.9	3152	1.18	53	1.0	3322	0.70	50				132*	
mm	**201.71**	4.29	47/1	3.5	2891	1.83	58	2.3	3010	1.34	54	1.2	3186	0.78	51	90	100*	112*		
108	**182.58**	3.88	47/1	3.8	2820	1.90	59	2.5	2950	1.40	55	1.4	3122	0.88	52	90	100*	112*		
+	**160.58**	3.42	47/1	4.4	2729	2.10	60	2.9	2874	1.56	56	1.6	3041	0.98	52	90	100*	112*		
PAM	**144.62**	3.08	47/1	4.8	2648	2.18	61	3.2	2807	1.65	57	1.7	2970	1.00	53	90	100	112*	132*	160*
mm	**117.50**	2.50	47/1	6.0	2513	2.51	63	4.0	2678	1.90	59	2.1	2831	1.15	54	90	100	112*	132*	160*
109	**100.48**	2.14	47/1	7.0	2427	2.74	65	4.6	2579	2.07	60	2.5	2756	1.31	55	90	100	112*	132*	160*
	87.40	3.88	45/2	8.0	2599	2.90	75	5.3	2720	2.10	72	2.9	2878	1.27	69	90	100	112*	132*	
	76.88	3.42	45/2	9.1	2530	3.21	75	6.0	2665	2.29	73	3.3	2820	1.39	70	90	100	112	132*	
	69.23	3.08	45/2	10.1	2459	3.42	76	6.7	2608	2.51	73	3.6	2759	1.49	70	90	100	112	132*	160*
	56.25	2.50	45/2	12.4	2311	3.85	78	8.3	2462	2.85	75	4.4	2604	1.69	71	90	100	112	132*	160*
	48.10	2.14	45/2	14.6	2233	4.32	79	9.7	2373	3.17	76	5.2	2536	1.92	72	90	100	112	132*	160*
	40.98	1.82	45/2	17.1	2136	4.78	80	11.3	2263	3.48	77	6.1	2450	2.14	73	90	100	112	132*	160*
	35.31	3.42	31/3	19.8	1767	4.36	84	13.2	1862	3.14	82	7.1	1904	1.77	80	90	100	112	132*	
	31.79	3.08	31/3	22.0	2008	5.44	85	14.6	1960	3.61	83	7.9	1890	1.95	80	90	100	112	132	160*
	25.83	2.50	31/3	27.1	1918	6.33	86	18.0	1949	4.37	84	9.7	1880	2.36	81	90	100	112	132	160*
	22.09	2.14	31/3	31.7	1834	7.00	87	21.1	1917	5.04	84	11.3	1872	2.70	82	90	100	112	132	160*
	18.82	1.82	31/3	37.2	1753	7.85	87	24.7	1857	5.65	85	13.3	1829	3.11	82	90	100	112	132	160*
	15.90	3.08	31/6	44.0	1285	6.65	89	29.2	1271	4.42	88	15.7	1242	2.37	86	90	100	112	132	160*
	14.54	1.41	31/3	48.1	1599	9.05	89	32.0	1725	6.64	87	17.2	1801	3.86	84				132	160*
	12.92	2.50	31/6	54.2	1300	7.50	90	36.0	1271	4.95	88	19.3	1242	2.70	86	90	100	112	132	160*
	11.05	2.14	31/6	63.3	1283	7.50	91	42.1	1255	4.95	89	22.6	1226	2.70	87	90	100	112	132	160*
	9.41	1.82	31/6	74.4	1251	7.50	91	49.4	1238	4.95	90	26.6	1196	2.70	87	90	100	112	132	160*
	8.44	1.63	31/6	82.9	1220	7.50	91	55.1	1207	4.95	90	29.6	1180	2.70	88				132	160*
	7.75	1.50	31/6	90.3	1196	7.50	92	60.0	1207	4.95	90	32.3	1180	2.70	88				132	160
	7.27	1.41	31/6	96.3	1122	7.50	92	64.0	1189	4.95	91	34.4	1150	2.70	88				132	160

	IEC bağlantısı yoktur - No IEC assembling on empty fields
63	**IEC bağlantısı yapılır -** IEC assembling available on numbered fields
80*	**IEC bağlantısı yapılacaksa P_{1max} değerleri aşılmamalıdır -** Do not exceed the P_{1max} values indicated on fields with asterisk

TR GENEL PARÇA LİSTESİ

EN GENERAL PART LIST OF PSH

PSH 2040 DG-TMG-TMA



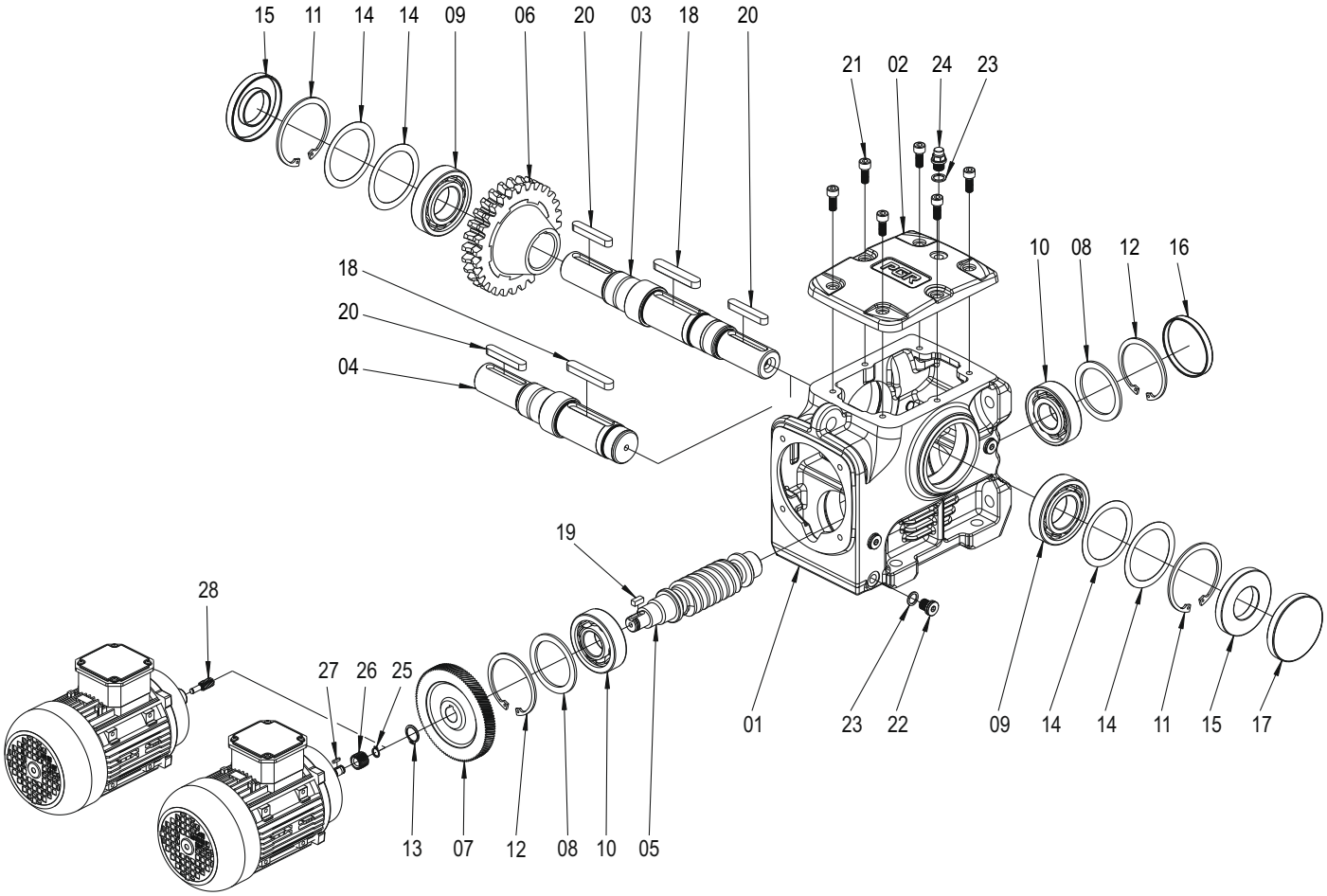
1	**PSH Ayaklı-Flanşlı Gövde**
2	**Ara Bağlantı Flanşı**
3	**Çıkış Şaftı**
4	**TMA Çıkış Mili**
5	**ÇMA Çıkış Mili**
6	**Vida**
7	**Çark**
8	**Z2 Dişlisi**
9	**Burç**
10	**Şaft Burcu**
11	**Z3 Rondelası**
12	**Z2 Rondelası**
13	**Rulman**
14	**Rulman**
15	**Segman (DIN 472)**
16	**Segman (DIN 472)**
17	**Segman (DIN 471)**
18	**Layner**
19	**Layner**
20	**Layner**
21	**Layner**
22	**Yağ Keçesi (DG VE TMA)**
23	**Yağ Kapağı**
24	**Yağ Kapağı (TMA)**
25	**Kama**
26	**Kama**
27	**Kama**
28	**Civata**
29	**Yaylı Rondela**
30	**Tapa Rondelası**
31	**Yağ Tapası**
32	**Havalandırma Tapası**
33	**Segman (DIN 471)**
34	**Çakma Z1**
35	**Kama**
36	**Yekpare Çakma Z1**

1	PSH Foot-Flange Gear Case
2	Intermediate Flange
3	Output Shaft
4	TMA Solid Shaft
5	ÇMA Solid Shaft
6	Worm Gear
7	Wheel
8	Driving Gear
9	Spacer
10	Spacer
11	Z3 Washer
12	Z2 Washer
13	Bearing
14	Bearing
15	Circlip (DIN 472)
16	Circlip (DIN 472)
17	Circlip (DIN 471)
18	Shim
19	Shim
20	Shim
21	Shim
22	Oil Seal
23	Oil Cap
24	Oil Cap (TMA)
25	Key
26	Key
27	Key
28	Bolt
29	Spring Washer
30	Washer
31	Drain Plug
32	Vent Plug
33	Circlip (DIN 471)
34	Z1 Pinion, plain
35	Key
36	Z1 Pinion, gearcut, plain

TR GENEL PARÇA LİSTESİ

EN GENERAL PART LIST OF PSH

PSH 2050 - 2125 TMA - ÇMA

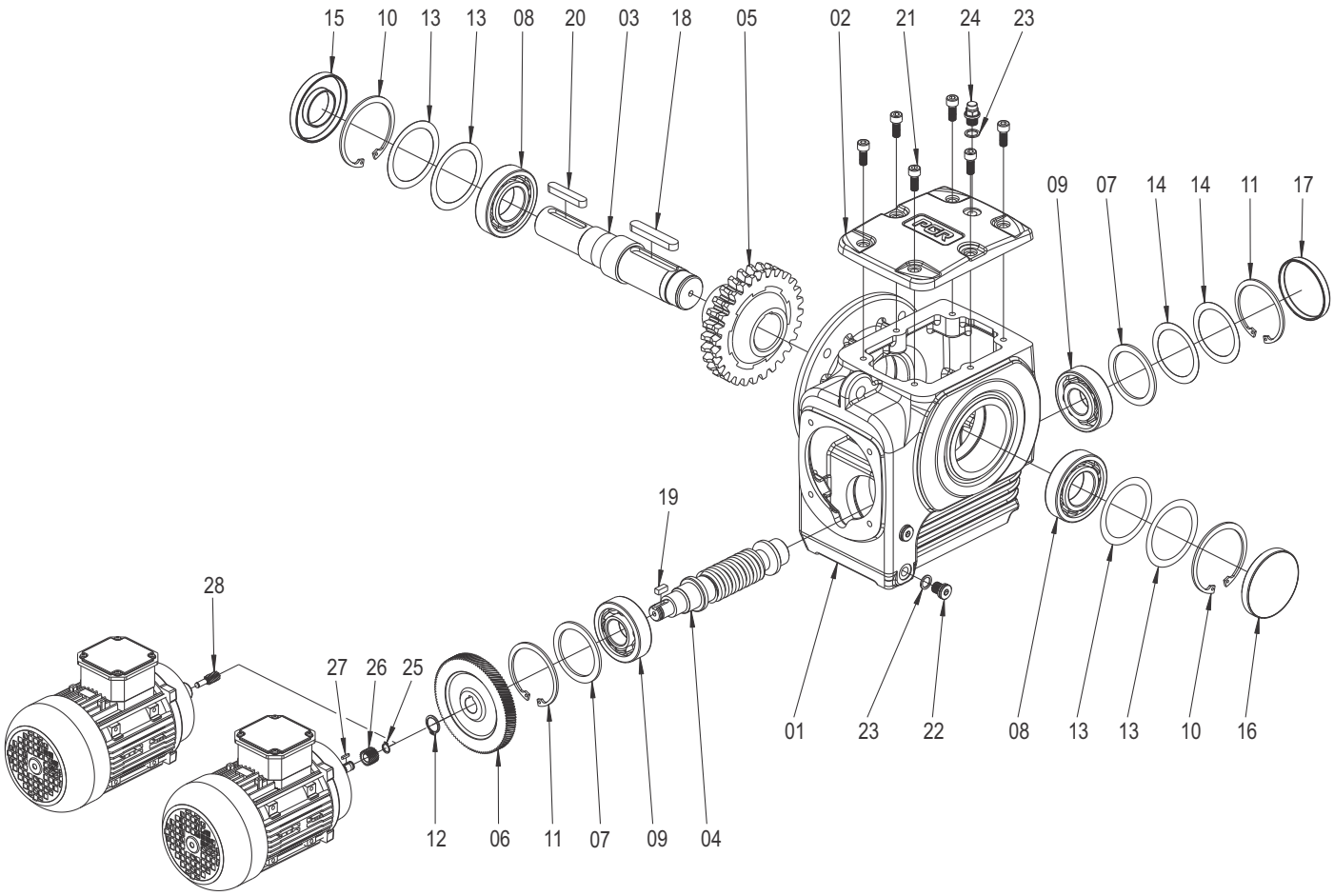


1	**Ayaklı Gövde**	Foot Mounted, Gear Case
2	**Üst Kapak**	Gear Case Cover
3	**ÇMA Çıkış Mili**	ÇMA Solid Shaft
4	**TMA Çıkış Mili**	TMA Solid Shaft
5	**Vida**	Worm Gear
6	**Çark**	Wheel
7	**Z2 Dişlisi**	Z2 Pinion
8	**Rondela**	Washer
9	**Rulman**	Bearing
10	**Rulman**	Bearing
11	**Segman (DIN 472)**	Circlip (DIN 472)
12	**Segman (DIN 472)**	Circlip (DIN 472)
13	**Segman (DIN 471)**	Circlip (DIN 471)
14	**Layner**	Shim
15	**Yağ Keçesi**	Oil Seal
16	**Yağ Kapağı**	Oil Cap
17	**Yağ Kapağı**	Oil Cap
18	**Kama**	Key
19	**Kama**	Key
20	**Kama**	Key
21	**Civata**	Bolt
22	**Yağ Tapası**	Drain Plug
23	**Tapa Rondelası**	Washer
24	**Havalandırma Tapası**	Vent Plug
25	**Segman (DIN 471)**	Circlip (DIN 471)
26	**Çakma Z1**	Z1 Pinion, plain
27	**Kama**	Key
28	**Yekpare Çakma Z1**	Z1 Pinion, gearcut, plain

TR GENEL PARÇA LİSTESİ

EN GENERAL PART LIST OF PSH

PSH 2040-2125 TMG-B5

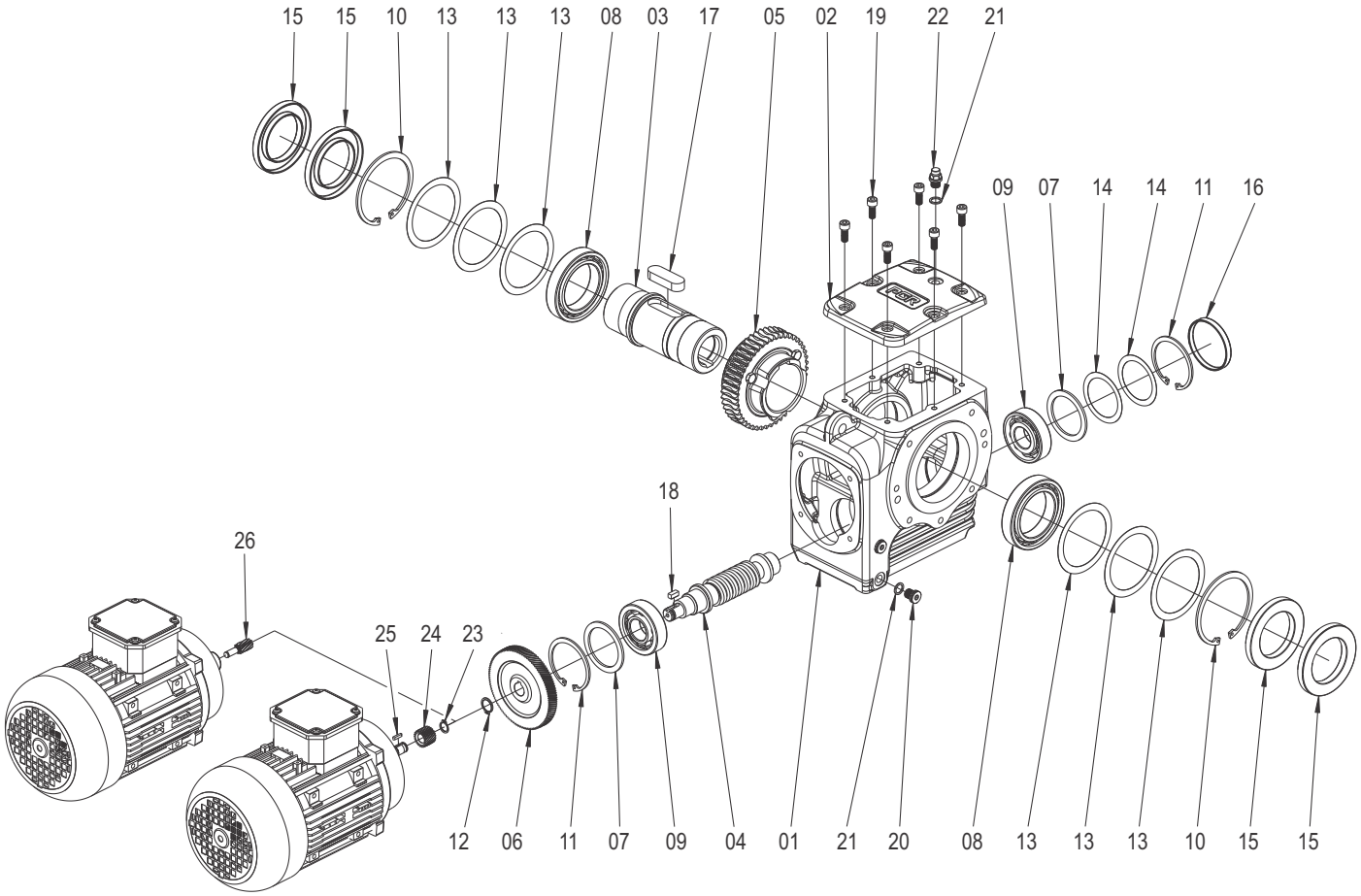


1	**TMG B5 Gövde**	1	TMG B5 Gear Case
2	**Üst Kapak**	2	Gear Case Cover
3	**B5 Çıkış Mili**	3	B5 Solid Shaft
4	**Vida**	4	Worm Gear
5	**Çark**	5	Wheel
6	**Z2 Dişlisi**	6	Z2 Pinion
7	**Rondela**	7	Washer
8	**Rulman**	8	Bearing
9	**Rulman**	9	Bearing
10	**Segman (DIN 472)**	10	Circlip (DIN 472)
11	**Segman (DIN 472)**	11	Circlip (DIN 472)
12	**Segman (DIN 471)**	12	Circlip (DIN 471)
13	**Layner**	13	Shim
14	**Layner**	14	Shim
15	**Yağ Keçesi**	15	Oil Seal
16	**Yağ Kapağı**	16	Oil Cap
17	**Yağ Kapağı**	17	Oil Cap
18	**Kama**	18	Key
19	**Kama**	19	Key
20	**Kama**	20	Key
21	**Civata**	21	Bolt
22	**Yağ Tapası**	22	Drain Plug
23	**Tapa Rondelası**	23	Washer
24	**Havalandırma Tapası**	24	Vent Plug
25	**Segman (DIN 471)**	25	Circlip (DIN 471)
26	**Z1 Dişlisi (Çakma)**	26	Z1 Pinion, plain
27	**Z1 Kaması**	27	Key
28	**Z1 Dişlisi (Yekpare Çakma)**	28	Z1 Pinion, gearcut, plain

TR GENEL PARÇA LİSTESİ

EN GENERAL PART LIST

PSH 2050-2125 DG

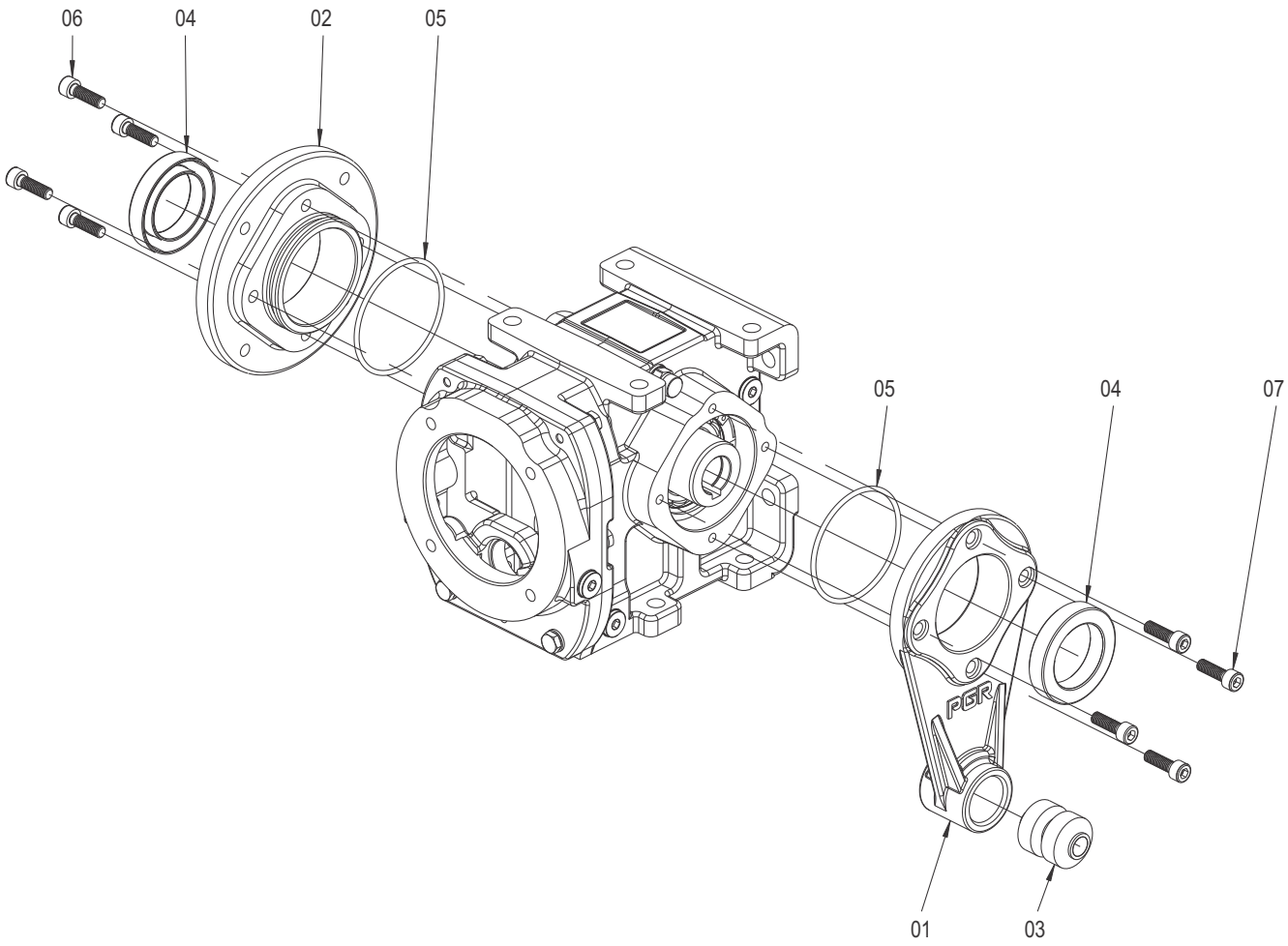


1	**Flanşlı Gövde**	1	Flanged Gear Case
2	**Üst Kapak**	2	Gear Case Cover
3	**Çıkış Şaftı**	3	Hollow Shaft
4	**Vida**	4	Worm Gear
5	**Çark**	5	Wheel
6	**Z2 Dişlisi**	6	Z2 Pinion
7	**Rondela**	7	Washer
8	**Rulman**	8	Bearing
9	**Rulman**	9	Bearing
10	**Segman (DIN 472)**	10	Circlip (DIN 472)
11	**Segman (DIN 472)**	11	Circlip (DIN 472)
12	**Segman (DIN 471)**	12	Circlip (DIN 471)
13	**Layner**	13	Shim
14	**Layner**	14	Shim
15	**Yağ Keçesi**	15	Oil Seal
16	**Yağ Kapağı**	16	Oil Cap
17	**Kama**	17	Key
18	**Kama**	18	Key
19	**Civata**	19	Bolt
20	**Yağ Tapası**	20	Drain Plug
21	**Tapa Rondelası**	21	Washer
22	**Havalandırma Tapası**	22	Vent Plug
23	**Segman (DIN 471)**	23	Circlip (DIN 471)
24	**Çakma Z1**	24	Z1 Pinion, plain
25	**Kama**	25	Key
26	**Yekpare Çakma Z1**	26	Z1 Pinion, gearcut, plain

TR GENEL PARÇA LİSTESİ

EN GENERAL PART LIST

PSH 2040 DG - B5 - TK

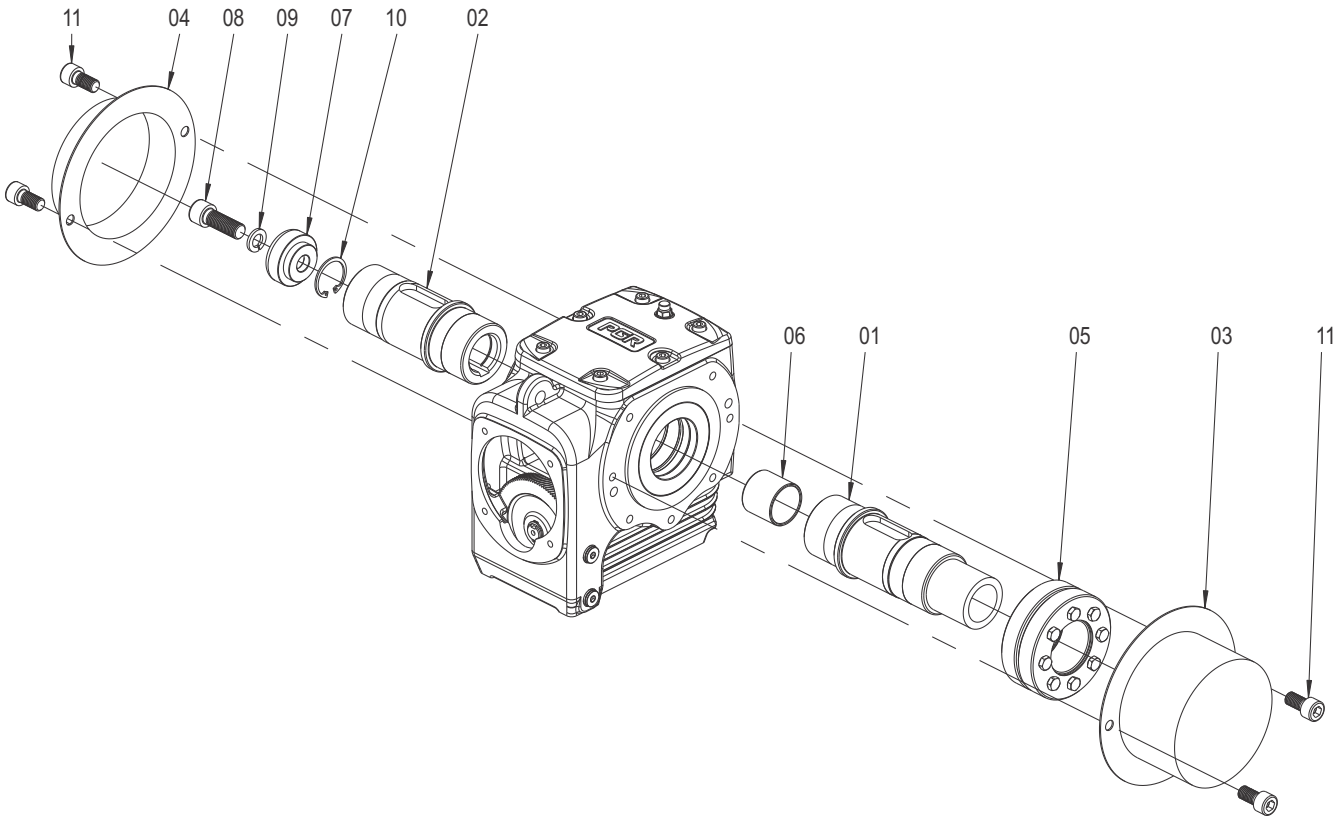


1	**Tork Kolu**	1	Torque Arm
2	**B5 Flanşı**	2	B5 Flange
3	**Lastik Takoz**	3	Rubber Buffer
4	**Yağ Keçesi**	4	Oil Seal
5	**O-Ring**	5	O-Ring
6	**Civata**	6	Bolt
7	**Civata**	7	Bolt

TR GENEL PARÇA LİSTESİ

EN GENERAL PART LIST OF PSH

PSH 2040-2125 DG - KS ÇEKTİRME RONDELASI



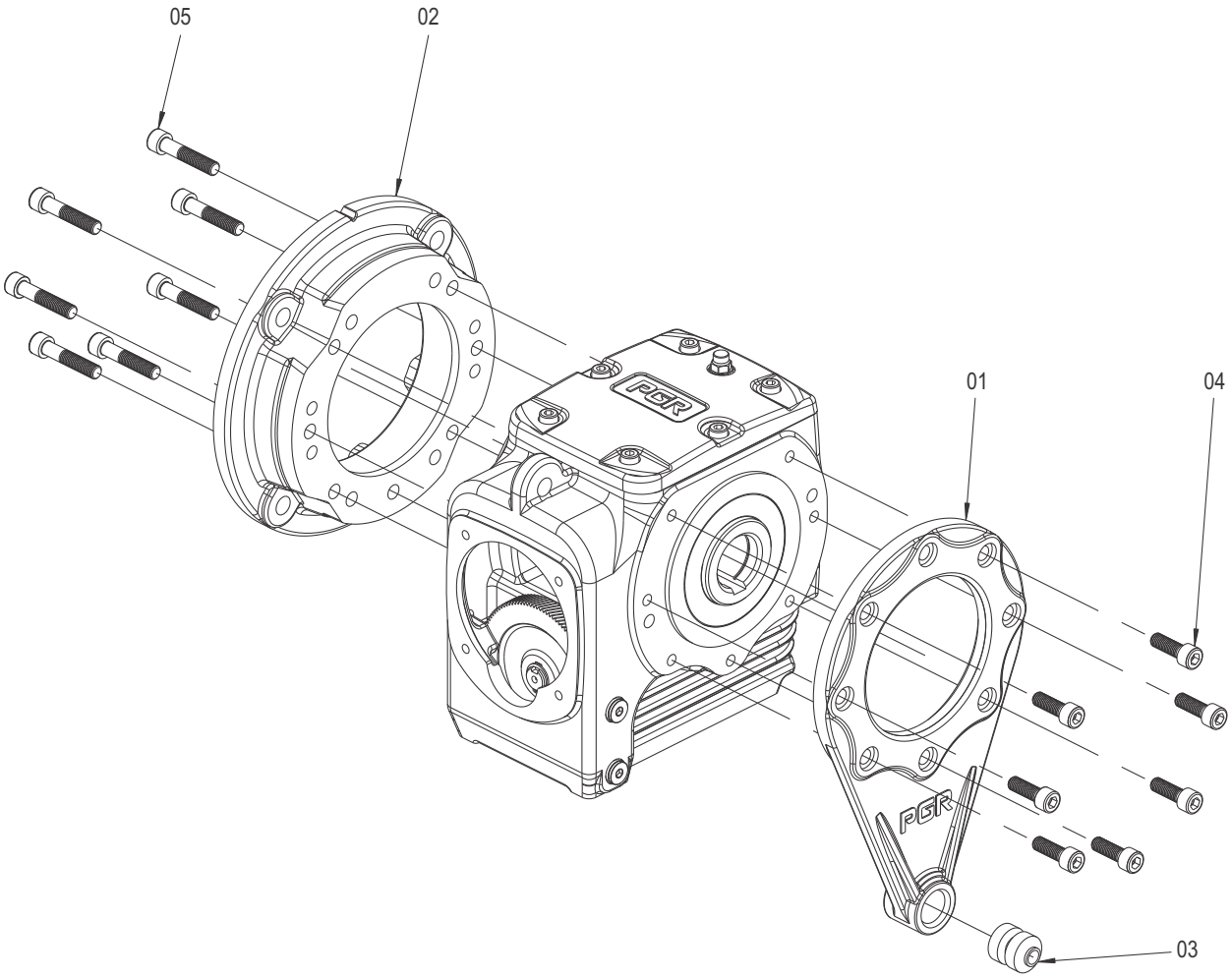
1	**KS Çıkış Şaftı**
2	**Çıkış Şaftı**
3	**Konik Sıktırma Koruma Kapağı**
4	**Şaft Koruma Kapağı**
5	**Konik Sıktırma**
6	**KS Burcu**
7	**Çektirme Rondelası**
8	**Çektirme Civatası**
9	**Yaylı Rondela**
10	**Segman**
11	**Civata (İnbus)**

1	Hollow Shaft for KS
2	Hollow Shaft
3	Shrink Disc, Protection Cap
4	Shaft Protection Cover
5	Shrink Disc
6	Washer
7	Fixing Element
8	Bolt
9	Spring Washer
10	Circlip
11	Bolt (İnbus)

TR GENEL PARÇA LİSTESİ

EN GENERAL PART LIST OF PSH

PSH 2050-2125 DG - B5 - TK

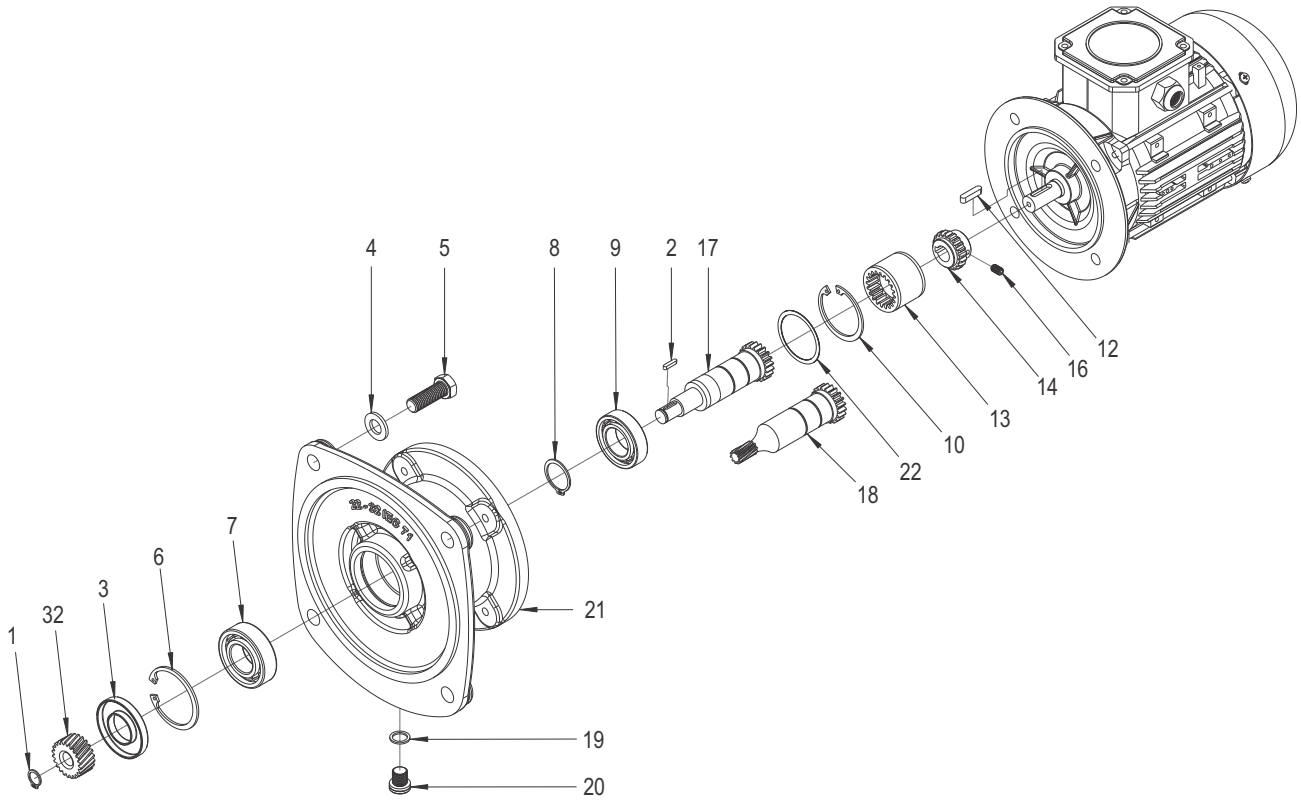


1	**Tork Kolu**	1	Torque Arm
2	**B5 Flanşı**	2	B5 Flange
3	**Lastik Takoz**	3	Rubber Buffer
4	**Civata**	4	Bolt
5	**Civata**	5	Bolt

TR GENEL PARÇA LİSTESİ

EN GENERAL PART LIST

IEC 63...112

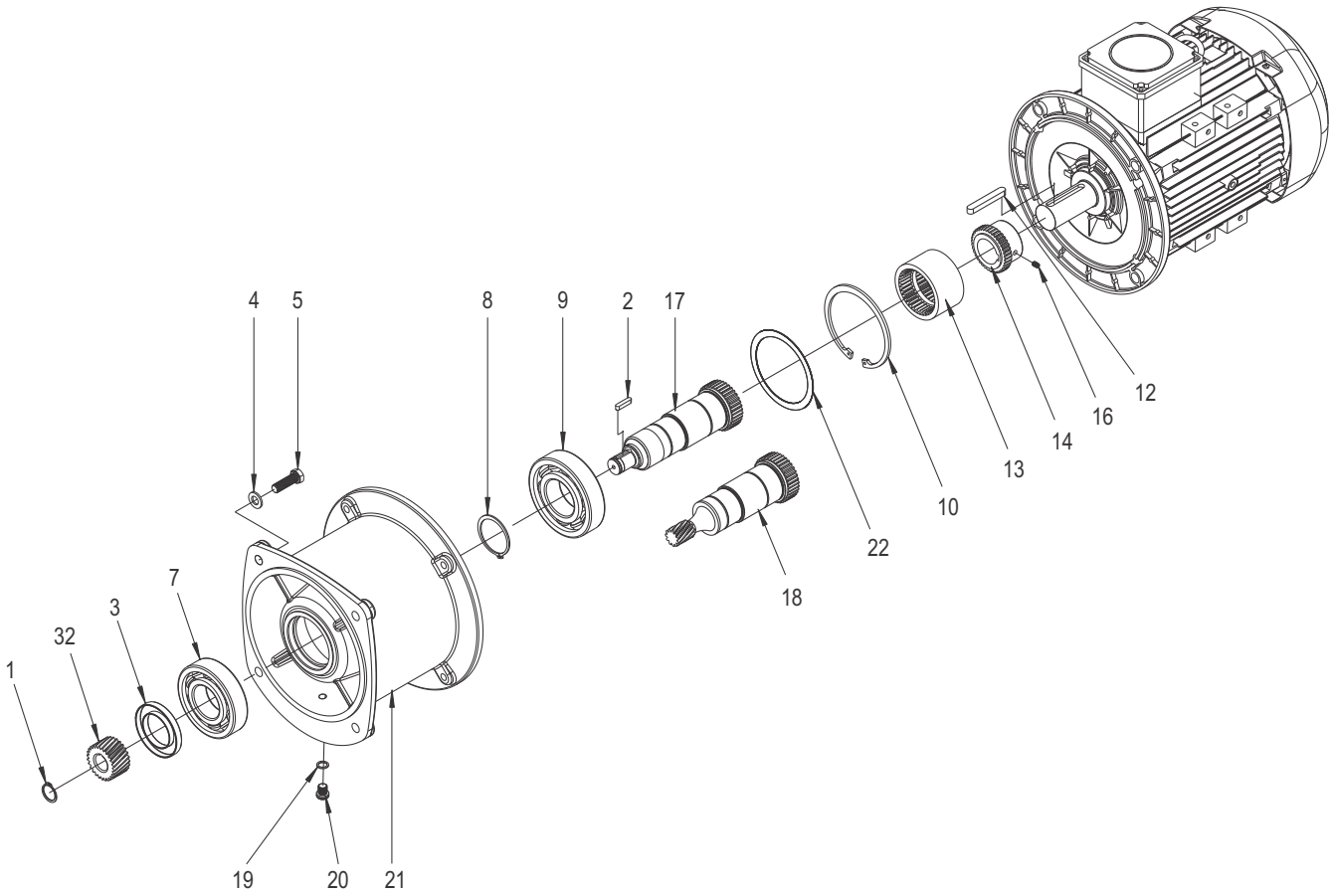


1. Segman	1. Circlip
2. Kama	2. Key
3. Yağ Keçesi	3. Oil Seal
4. Yaylı Rondela	4. Spring Washer
5. Altıköşe Başlı Civata	5. Bolt
6. Segman	6. Circlip
7. Rulman	7. Bearing
8. Segman	8. Circlip
9. Rulman	9. Bearing
10. Segman	10. Circlip
12. Kama	12. Key
13. Kaplin	13. Coupling
14. Kaplin	14. Coupling
16. Setuskur Civata	16. Set Screw
17. IEC Mili Çakma	17. Input Shaft, Plain
18. IEC Mili Yekpare	18. Input Shaft, Gearcut
19. Rondela	19. Washer
20. Yağ Tapası	20. Oil Plug
21. IEC Gövde	21. IEC Adapter
22. Layner	22. Shim
32. Z1 Dişlisi	32. Pinion

TR GENEL PARÇA LİSTESİ

EN GENERAL PART LIST

IEC 132...180



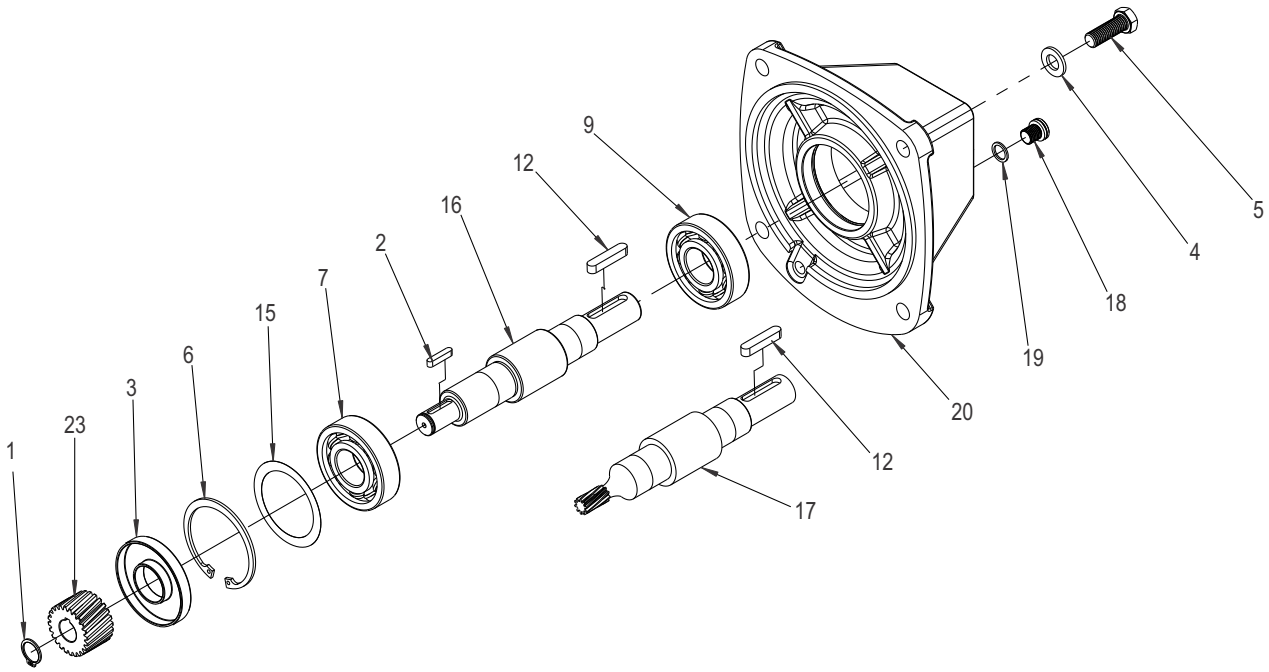
1. Segman	1. Circlip
2. Kama	2. Key
3. Şaft Keçesi	3. Shaft Seal
4. Yaylı Rondela	4. Spring Washer
5. Altıköşe Başlı Civata	5. Bolt
7. Rulman	7. Bearing
8. Segman	8. Circlip
9. Rulman	9. Bearing
10. Segman	10. Circlip
12. Kama	12. Key
13. Kaplin	13. Coupling
14. Kaplin	14. Coupling
16. Setuskur Civata	16. Set Screw
17. IEC Mili Çakma	17. Input Shaft, Plain
18. IEC Mili Yekpare	18. Input Shaft, Gearcut
19. Rondela	19. Washer
20. Yağ Tapası	20. Oil Plug
21. IEC Gövde	21. IEC Adapter
22. Layner	22. Shim
32. Z1 Dişlisi	32. Pinion

TR GENEL PARÇA LİSTESİ

EN GENERAL PART LIST

PSH - 2040
PSH - 2050...2125
PSH - 3050...3125

W



1. Segman	1. Circlip
2. Kama	2. Key
3. Yağ Keçesi	3. Oil Seal
4. Yaylı Rondela	4. Spring Seal
5. Altıköşe Başlı Civata	5. Bolt
6. Segman	6. Circlip
7. Rulman	7. Bearing
9. Rulman	9. Bearing
12. Kama	12. Key
15. Layner	15. Shim
16. W Mili Çakma	16. Input Shaft, Plain
17. W Mili Yekpare	17. Input Shaft, Gearcut
18. Yağ Tapası	18. Oil Plug
19. Rondela	19. Washer
20. W Gövdesi	20. W Input Housing
23. Z1 Dişlisi	23. Pinion

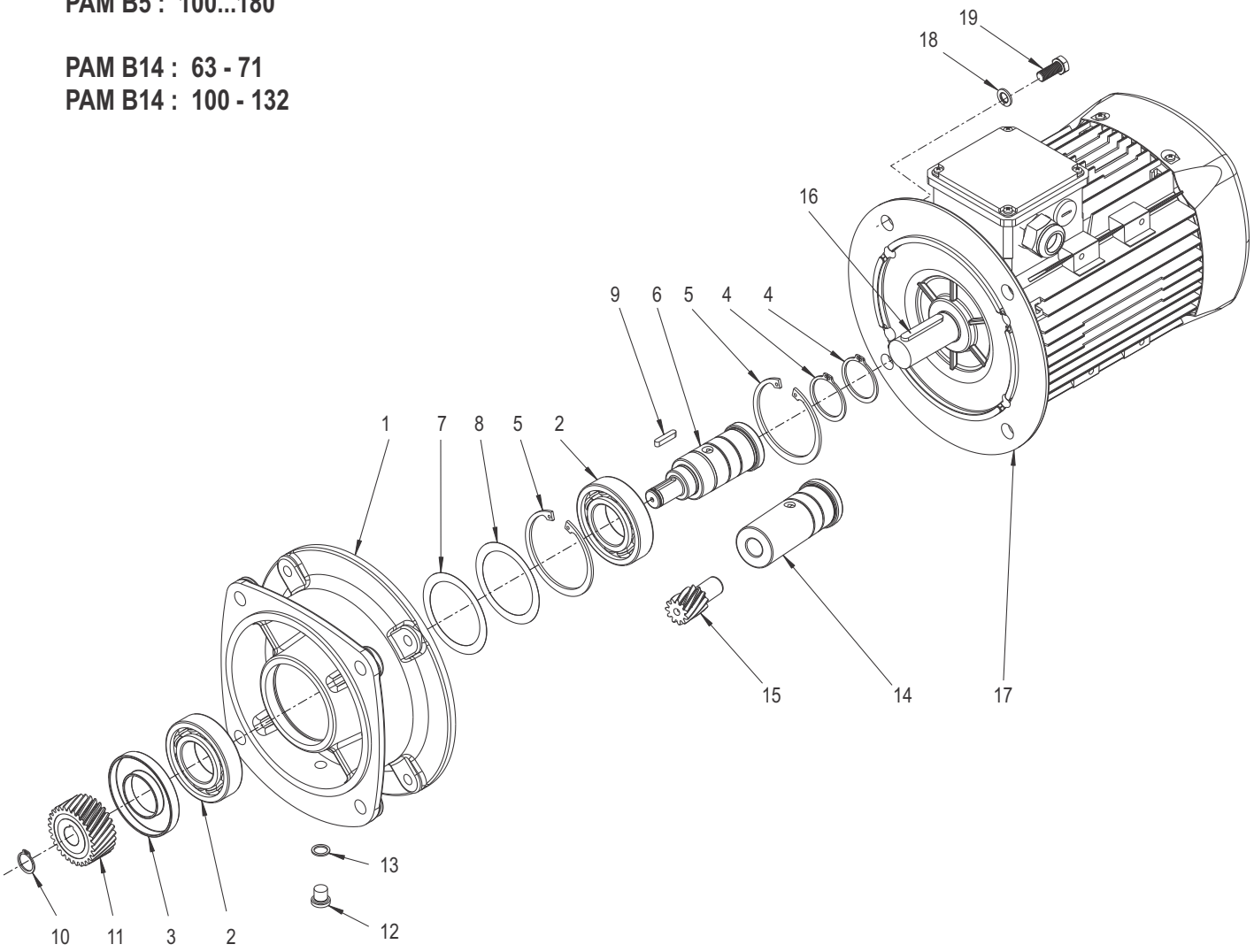
TR GENEL PARÇA LİSTESİ

EN GENERAL PART LIST

PAM B5 : 63 - 71
PAM B5 : 100...180

PAM B14 : 63 - 71
PAM B14 : 100 - 132

PAM (B5/B14)



1. Pam Gövde (B5/B14)	1. Pam Adapter (B5/B14)
2. Rulman	2. Bearing
3. Yağ Keçesi	3. Oil Seal
4. Segman	4. Circlip
5. Segman	5. Circlip
6. Pam mili çakma	6. Input Shaft, Plain
7. Layner	7. Shim
8. Layner	8. Shim
9. Kama	9. Key
10. Segman	10. Circlip
11. Z1 Dişlisi	11. Pinion
12. Yağ Tapası	12. Oil plug
13. Rondela	13. Washer
14. Pam mili yekpare çakma	14. Input Shaft, Gearcut
15. Z1 Dişlisi	15. Pinion
16. Motor mili Kaması	16. Key
17. Motor	17. Motor
18. Rondela	18. Washer
19. Altı köşe başlı cıvata	19. Bolt

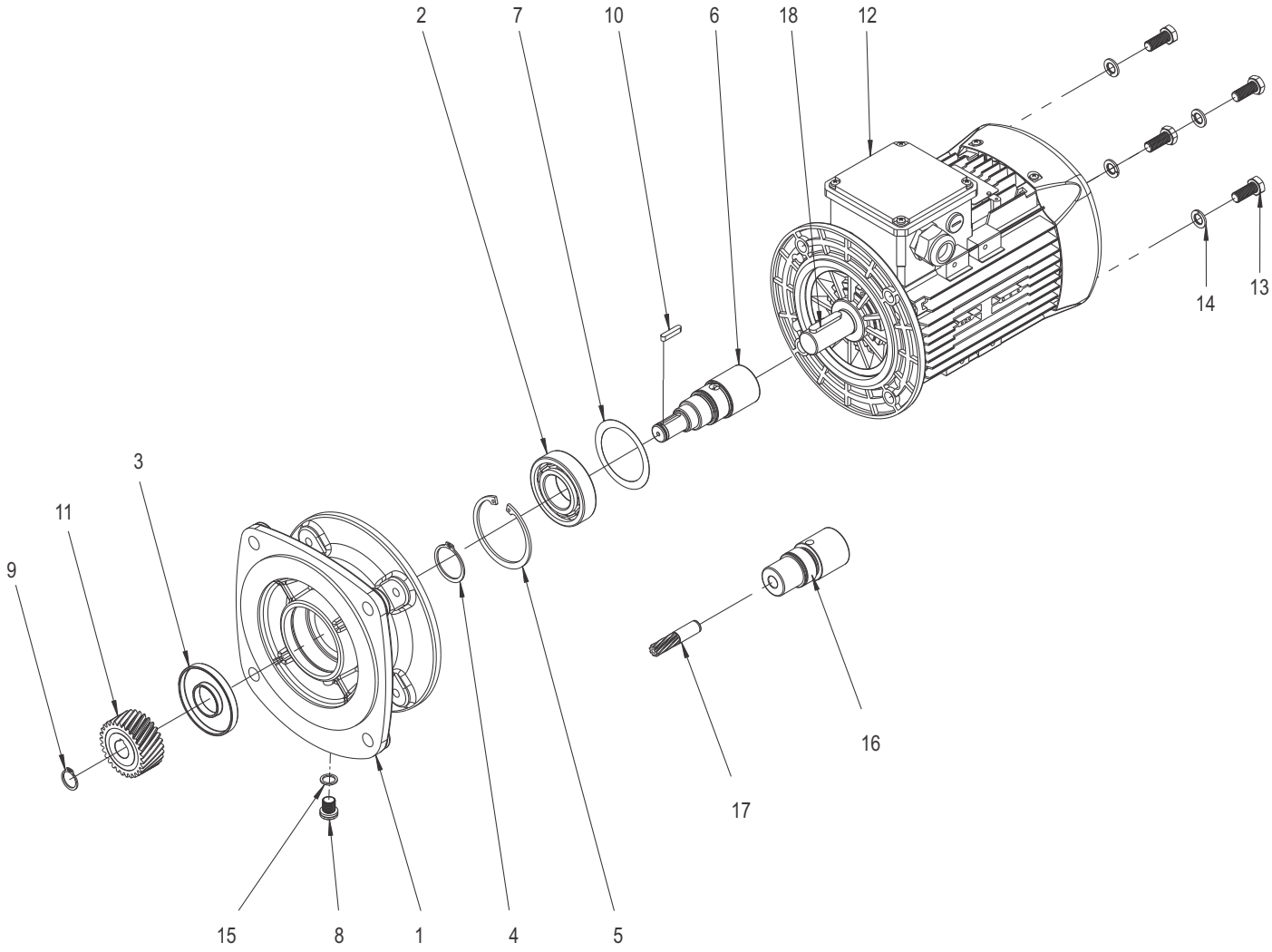
TR GENEL PARÇA LİSTESİ

EN GENERAL PART LIST

PAM B5 : 80 - 90

PAM B14 : 80 - 90

PAM (B5/B14)



1. Pam Gövde (B5/B14)	1. Pam Adapter (B5/B14)
2. Rulman	2. Bearing
3. Yağ Keçesi	3. Oil Seal
4. Segman	4. Circlip
5. Segman	5. Circlip
6. Pam mili çakma	6. Input Shaft, Plain
7. Layner	7. Shim
8. Yağ Tapası	8. Oil plug
9. Segman	9. Circlip
10. Kama	10. Key
11. Z1 Dişlisi	11. Pinion
12. Motor	12. Motor
13. Cıvata	13. Bolt
14. Yaylı Rondela	14. Spring Washer
15. Rondela	15. Washer
16. Pam mili yekpare çakma	16. Input Shaft, Gearcut
17. Z1 Dişlisi	17. Pinion
18. Motor Kaması	18. Key

ELEKTRİKSEL ÖZELLİKLER - 50 Hz / ELECTRICAL CHARACTERISTICS AT 50 Hz

	Motor Tipi Motor Type	Gövde Tipi Housing Type	Nominal / Rated Values					Kalkıştaki Değerler / Starting Values				Devrilme Momenti Oranı Breakedown Torque Ratio	Verim * Efficiency* η%			Cos ϕ	J	Ağırlık (B3) Weight (B3)	Ses Seviyesi dBA** Sound Pressure Level dBA**
			Güç / Power		Devir Speed	Akım Current	Moment Torque	Akım Current I_A / A_N		Moment Torque M_A / M_N									
			kW	HP	d/d	A	Nm	⅄	Δ	⅄	Δ	Mk/Mn	4/4	3/4	2/4	4/4	kgm²	kg	
	2kutup3000d/d																		
220/380V	Q3E80M2C	Alüminyum	0,75	1,0	2880	1,7	2,5	7,4	-	4,0	-	4,8	80,7	79,1	77,4	0,86	0,00109	12,2	58
	Q3E80M2D	Alüminyum	1,1	1,5	2895	2,4	3,7	8,4	-	4,9	-	5,1	82,7	82,1	78,9	0,84	0,00150	13	58
	Q3E90L2C	Alüminyum	1,5	2,0	2910	3,2	4,9	8,9	-	4,2	-	4,9	84,2	84,7	82,3	0,86	0,00182	17,5	62
	Q3E90L2D	Alüminyum	2,2	3,0	2900	4,6	7,2	8,6	-	4,6	-	4,0	85,9	87,0	85,5	0,84	0,00182	18	62
	Q3E100L2D	Alüminyum	3,0	4,0	2920	5,6	9,8	9,8	-	4,1	-	4,4	87,1	86,9	84,5	0,89	0,00335	25	64
380/660V	Q3E112M2C	Alüminyum	4,0	5,5	2915	7,8	13,2	3,2	9,7	1,3	3,8	5,1	88,1	87,9	85,7	0,87	0,00489	31	67
	Q3E132S2C	Alüminyum	5,5	7,5	2900	10,4	18,0	3,6	10,8	1,0	3,0	3,5	89,2	88,9	86,7	0,91	0,01410	48	70
	Q3E132M2A	Alüminyum	7,5	10,0	2930	13,7	24,5	3,2	9,7	1,3	3,8	4,4	90,1	90,3	88,9	0,91	0,01596	51	70
	Q3E160L2A	Alüminyum	11,0	15,0	2940	19,8	35,9	2,9	8,8	1,0	3,0	5,1	91,2	91,4	90,3	0,93	0,03317	77	71
	Q3E160L2C	Alüminyum	15,0	20,0	2945	26,7	48,8	3,6	10,8	1,1	3,2	3,9	91,9	91,0	90,3	0,93	0,04075	91	71
	Q3E160L2D	Alüminyum	18,5	25,0	2940	33,4	60,0	2,9	8,8	1,3	3,8	4,1	92,4	92,0	90,9	0,91	0,04075	101	71
	Q3E180M2A	Alüminyum	22,0	30,0	2955	38,7	71,3	3,5	10,5	1,1	3,2	3,2	92,7	92,9	91,7	0,93	0,06193	139	77
	Q3E200L2C	Alüminyum	30,0	40,0	2950	52,9	97,4	3,0	9,1	0,8	2,4	3,5	93,3	93,8	93,4	0,93	0,11917	167	80
	Q3E200L2D	Alüminyum	37,0	50,0	2950	65,2	119,5	3,2	9,7	0,9	2,7	3,5	93,7	94,1	93,8	0,92	0,15010	179	80
	Q3E225M2C	Alüminyum	45,0	60,0	2965	80,3	145,2	2,7	8,0	0,8	2,4	3,4	94,0	94,0	93,2	0,91	0,23505	249	81
	Q3EP250M2C	Pik	55,0	75,0	2980	95,9	178,5	2,1	6,4	0,7	2,1	3,1	94,3	94,0	92,6	0,91	0,48707	488	82
	Q3EP280M2C	Pik	75,0	100,0	2975	125,4	240,8	2,7	8,0	0,6	1,9	4,0	94,7	94,0	92,7	0,92	0,54033	585	84
	Q3EP280M2D	Pik	90,0	125,0	2975	151,3	289,4	2,7	8,0	0,7	2,1	4,9	95,0	94,2	92,7	0,93	0,64510	587	84
400/690V	Q3EP315S2C	Pik	110,0	127,0	2.983	187	358	2,4	7,2	0,6	1,7	2,6	95,2	95,2	94,0	0,89	2,19900	963	83
	Q3EP315M2B	Pik	132,0	152,0	2.983	224	418	2,5	7,5	0,6	1,8	2,6	95,4	95,4	94,4	0,89	2,37790	1.007	83
	Q3EP315L2A	Pik	160,0	184,0	2.983	271	513	2,5	7,5	0,6	1,8	2,6	95,6	95,6	94,4	0,89	2,62170	1.065	83
	Q3EP315L2C	Pik	200,0	230,0	2.983	339	641	2,5	7,5	0,6	1,9	2,6	95,8	95,8	94,9	0,89	2,90860	1.180	83
	Q3EP355M2C	Pik	250,0	280,0	2.983	419	800	2,4	7,3	0,6	1,7	2,5	95,8	95,8	94,7	0,90	3,81300	1.612	91
	Q3EP355L2B	Pik	315,0	353,0	2.984	527	1.008	2,4	7,3	0,6	1,8	2,5	95,8	95,7	94,4	0,90	4,52000	1.771	91
	Q3EP355L2C	Pik	355,0	398,0	2.981	594	1.137	2,6	7,9	0,7	2,2	2,5	95,8	95,8	95,0	0,90	5,58000	2.002	91
	4kutup1500d/d																		
220/380V	Q3E80M4D	Alüminyum	0,75	1,0	1430	1,8	5,0	6,1	-	3,0	-	3,1	82,5	81,2	78,0	0,77	0,00268	12	49
	Q3E90L4C	Alüminyum	1,1	1,5	1440	2,5	7,4	7,5	-	2,9	-	3,3	84,1	84,1	81,3	0,80	0,00365	18	54
	Q3E90L4D	Alüminyum	1,5	2,0	1440	3,5	10,0	7,9	-	3,2	-	3,6	85,3	84,9	82,0	0,76	0,00365	18	55
	Q3E100L4C	Alüminyum	2,2	3,0	1445	5,1	14,6	7,6	-	3,7	-	4,0	86,7	84,4	82,0	0,78	0,00545	26	56
	Q3E100L4D	Alüminyum	3,0	4,0	1435	7,1	19,9	8,2	-	3,8	-	4,1	87,7	87,3	85,5	0,73	0,00581	26	56
380/660V	Q3E112M4D	Alüminyum	4,0	5,5	1445	8,3	26,3	2,8	8,3	1,0	3,0	4,0	88,6	87,6	85,8	0,83	0,01123	31	58
	Q3E132M4B	Alüminyum	5,5	7,5	1465	11,4	36,2	2,3	6,8	1,1	3,2	3,9	89,6	89,0	86,8	0,80	0,02763	54	61
	Q3E132M4C	Alüminyum	7,5	10,0	1450	15,8	49,4	2,5	7,4	1,0	3,0	4,1	90,4	89,3	87,4	0,82	0,02980	57	61
	Q3E160L4A	Alüminyum	11,0	15,0	1470	23,0	71,9	2,4	7,1	1,0	3,0	3,6	91,4	90,7	89,4	0,81	0,06922	90	63
	Q3E160L4B	Alüminyum	15,0	20,0	1465	30,8	98,0	2,7	8,0	0,9	2,6	3,4	92,1	91,7	90,7	0,82	0,07991	107	63
	Q3E180M4B	Alüminyum	18,5	25,0	1470	35,3	120,7	2,8	8,3	0,8	2,4	3,1	92,6	92,5	92,2	0,86	0,11220	148	69
	Q3E180L4B	Alüminyum	22,0	30,0	1475	42,0	142,4	2,7	8,0	0,8	2,4	2,5	93,0	93,0	93,0	0,86	0,12773	157	69
	Q3E200L4D	Alüminyum	30,0	40,0	1480	54,3	193,6	2,4	7,1	0,7	2,2	2,5	93,6	93,6	93,7	0,86	0,26448	183	70
	Q3E225M4D	Alüminyum	37,0	50,0	1485	77,8	239,6	2,8	8,3	0,9	2,7	3,3	93,9	92,6	90,6	0,81	0,36429	280	71
	Q3E225M4DE	Alüminyum	45,0	60,0	1480	84,3	289,9	2,9	8,6	0,9	2,7	3,3	94,2	93,1	91,6	0,85	0,43513	282	71
	Q3EP250M4E	Pik	55,0	75,0	1450	100,0	356,1	2,6	7,7	0,9	2,7	3,2	94,6	94,0	92,8	0,87	0,90782	506	72
	Q3EP280M4C	Pik	75,0	100,0	1485	141,7	482,0	2,5	7,4	0,9	2,7	2,9	95,0	94,7	93,5	0,84	1,06114	624	73
	Q3EP280M4D	Pik	90,0	125,0	1485	163,5	584,2	2,5	7,4	0,9	2,7	2,9	95,2	94,5	93,7	0,86	1,14768	653	73
400/690V	Q3EP315S4C	Pik	110,0	127,0	1.489	194	705	2,5	7,5	0,7	2,0	2,5	95,4	95,4	94,7	0,86	3,46500	867	70
	Q3EP315M4B	Pik	132,0	152,0	1.489	232	846	2,5	7,6	0,7	2,1	2,5	95,6	95,6	95,0	0,86	3,96600	993	70
	Q3EP315L4A	Pik	160,0	184,0	1.489	274	1.026	2,5	7,6	0,7	2,2	2,5	95,8	95,8	95,4	0,88	4,88320	1.165	70
	Q3EP315L4C	Pik	200,0	230,0	1.489	346	1.282	2,7	8,2	0,7	2,2	2,5	96,0	96,0	95,5	0,87	5,23440	1.223	70
	Q3EP355M4C	Pik	250,0	280,0	1.491	422	1.601	2,5	7,5	0,6	1,9	2,4	96,0	96,0	95,5	0,89	9,30600	1.692	82
	Q3EP355L4B	Pik	315,0	353,0	1.491	532	2.017	2,5	7,5	0,6	1,9	2,4	96,0	96,0	95,5	0,89	10,06700	1.879	82
	Q3EP355L4C	Pik	355,0	398,0	1.491	600	2.273	2,5	7,5	0,7	2,0	2,3	96,0	96,0	95,5	0,89	11,90000	1.953	82

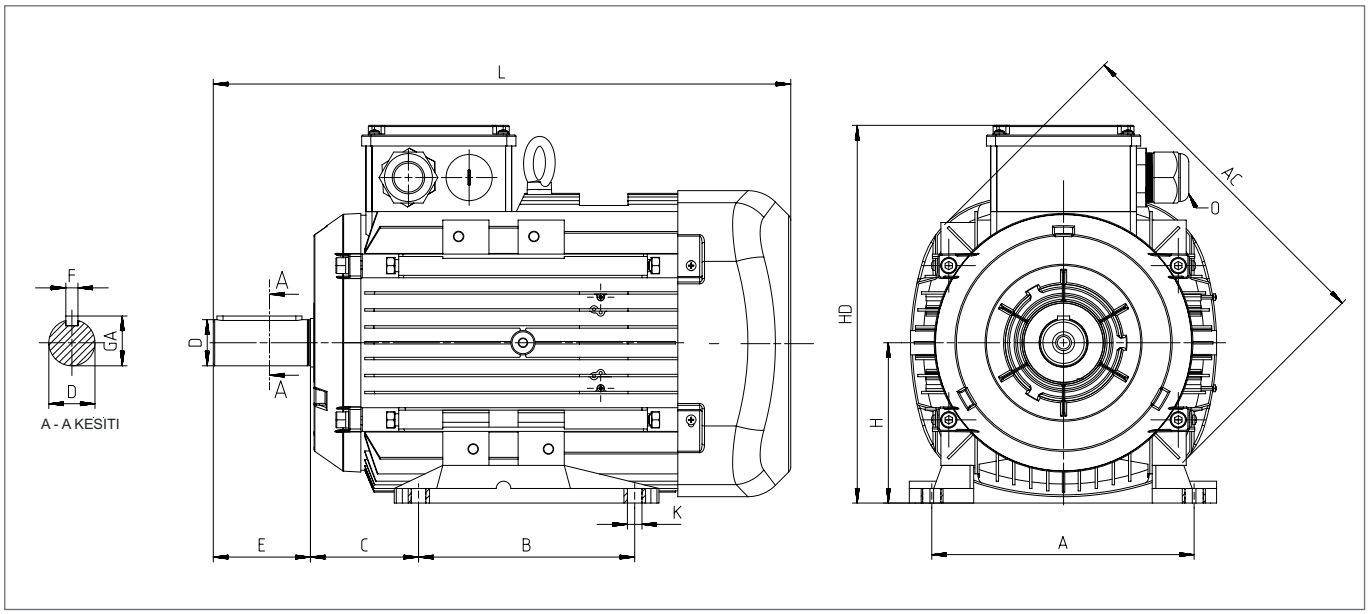
ELEKTRİKSEL ÖZELLİKLER - 50 Hz / ELECTRICAL CHARACTERISTICS AT 50 Hz

	Motor Tipi Motor Type	Gövde Tipi Housing Type	Nominal / Rated Values					Kalkıştaki Değerler / Starting Values				Devrilme Momenti Oranı Breakedown Torque Ratio	Verim * Efficiency* η%			Cos ϕ	J	Ağırlık (B3) Weight (B3)	Ses Seviyesi dBA** Sound Pressure Level dBA**
			Güç / Power		Devir Speed	Akım Current	Moment Torque	Akım Current I_A / A_N		Moment Torque M_A / M_N									
			kW	HP	d/d	A	Nm	⅄	Δ	⅄	Δ	Mk/Mn	4/4	3/4	2/4	4/4	kgm^2	kg	
	6kutup1000d/d																		
220/380V	Q3E90L6C	Alüminyum	0,75	1,0	940	2,2	7,6	4,0	-	2,3	-	2,5	78,9	77,7	76,1	0,65	0,00365	18	54
	Q3E90L6D	Alüminyum	1,1	1,5	940	3,1	11,2	4,2	-	2,3	-	2,6	81,0	80,5	79,9	0,66	0,00451	20	55
	Q3E100L6D	Alüminyum	1,5	2,0	940	3,9	15,2	4,5	-	2,3	-	2,7	82,5	81,9	79,0	0,68	0,00570	26	56
	Q3E112M6D	Alüminyum	2,2	3,0	950	5,4	22,0	4,7	-	2,4	-	2,7	84,3	83,7	80,7	0,73	0,01107	32	58
380/660V	Q3E132M6B	Alüminyum	3,0	4,0	960	7,5	29,7	1,7	5,2	0,6	1,7	2,3	85,6	85,2	82,8	0,70	0,02709	58,5	61
	Q3E132M6C	Alüminyum	4,0	5,5	955	9,5	39,8	1,8	5,3	0,6	1,9	2,3	86,8	85,7	82,8	0,74	0,02921	67	61
	Q3E132M6D	Alüminyum	5,5	7,5	950	12,7	55,0	1,7	5,0	0,6	1,8	2,3	88,0	87,6	85,3	0,75	0,03347	76	61
	Q3E160L6C	Alüminyum	7,5	10,0	970	17,7	74,2	1,8	5,5	0,6	1,9	2,7	89,1	89,0	88,0	0,72	0,07663	96	63
	Q3E160L6D	Alüminyum	11,0	15,0	955	25,3	109,4	1,8	5,5	0,6	1,9	2,7	90,3	90,1	89,3	0,75	0,08129	100,5	63
	Q3E180L6B	Alüminyum	15,0	20,0	978	32,2	146,2	2,0	5,9	0,6	1,8	2,6	91,2	90,9	88,7	0,79	0,22951	155	69
	Q3E200L6C	Alüminyum	18,5	25,0	975	37,7	180,3	1,8	5,5	0,5	1,6	2,4	91,7	91,5	90,9	0,82	0,31281	165	70
	Q3E200L6D	Alüminyum	22,0	30,0	975	44,5	214,4	1,8	5,5	0,5	1,6	2,4	92,2	92,0	91,4	0,82	0,33078	170	70
	Q3E225M6C	Alüminyum	30,0	40,0	970	62,1	293,8	1,8	5,4	0,5	1,6	2,3	92,9	92,8	91,8	0,79	0,52901	237,5	71

*** IEC 60034-2-1'e göre belirlenen verim değerleri**
**** Ses seviyesi ölçümleri motordan 1 metre uzaklıktan alınır.**
**** Tolerans + 3 dBA**

*** According to IEC 60034-2-1**
**** The sound pressure measurement are taken 1m away from the motor.**
**** Tolerance + 3 dBA**

BOYUTLAR / DIMENSIONS - B3



				Ana Boyutlar Main Dimensions			Ayaklı Motorlar / Foot Mounted Motors						Mil / Shaft				Rulman / Bearing		Keçe / Seal	
Güç Power (kW)	Kutup Sayısı Number of Poles	Motor Tipi Motor Type	Gövde Tipi Housing Type	AC	L	O	B	A	H	HD	K	C	D(1)	E	GA	F(2)	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non Drive Side	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non Drive Side
	2	Q3E80M2C	Alüminyum	158	283,5	1*M20	100	125	80	195	10	50	19	40	21,5	6	6204-2Z	6204-2Z	20*30*7	20*30*7
0,75	4	Q3E80M4D	Alüminyum	158	283,5	1*M20	100	125	80	195	10	50	19	40	21,5	6	6204-2Z	6204-2Z	20*30*7	20*30*7
	6	Q3E90L6C	Alüminyum	193	316,5	1*M25	125	140	90	222	10	56	24	50	27	8	6305-2Z	6205-2Z	25*40*7	25*40*7
	2	Q3E80M2D	Alüminyum	158	283,5	1*M20	100	125	80	195	10	50	19	40	21,5	6	6204-2Z	6204-2Z	20*30*7	20*30*7
1,1	4	Q3E90L4C	Alüminyum	193	316,5	1*M25	100	140	90	222	10	56	24	50	27	8	6305-2Z	6205-2Z	25*40*7	25*40*7
	6	Q3E90L6D	Alüminyum	193	344,5	1*M25	125	140	90	222	10	56	24	50	27	8	6305-2Z	6205-2Z	25*40*7	25*40*7
	2	Q3E90L2C	Alüminyum	193	316,5	1*M25	100	140	90	222	10	56	24	50	27	8	6305-2Z	6205-2Z	25*40*7	25*40*7
1,5	4	Q3E90L4D	Alüminyum	193	344,5	1*M25	125	140	90	222	10	56	24	50	27	8	6305-2Z	6205-2Z	25*40*7	25*40*7
	6	Q3E100L6D	Alüminyum	217	352,0	1*M25	140	160	100	241	12	63	28	60	31	8	6306-2Z	6205-2Z	30*47*7	25*47*7
	2	Q3E90L2D	Alüminyum	193	316,5	1*M25	125	140	90	222	10	56	24	50	27	8	6305-2Z	6205-2Z	25*40*7	25*40*7
2,2	4	Q3E100L4C	Alüminyum	217	352,0	1*M25	140	160	100	241	12	63	28	60	31	8	6306-2Z	6205-2Z	30*47*7	25*40*7
	6	Q3E112M6D	Alüminyum	232	395,5	2*M25	140	190	112	261	12	70	28	60	31	8	6306-2Z	6206-2Z	30*47*7	30*47*7
	2	Q3E100L2C	Alüminyum	217	352,0	1*M25	140	160	100	241	12	63	28	60	31	8	6306-2Z	6205-2Z	30*47*7	25*40*7
3,0	4	Q3E100L4D	Alüminyum	217	377,0	1*M25	140	160	100	241	12	63	28	60	31	8	6306-2Z	6205-2Z	30*47*7	25*40*7
	6	Q3E132M6B	Alüminyum	260	481,0	2*M32	178	216	132	323	12	89	38	80	41	10	6208-2Z	6208-2Z	40*62*10	40*62*10
	2	Q3E112M2C	Alüminyum	232	395,5	2*M25	140	190	112	261	12	70	28	60	31	8	6306-2Z	6206-2Z	30*47*7	30*47*7
4,0	4	Q3E112M4C	Alüminyum	232	395,5	2*M25	140	190	112	261	12	70	28	60	31	8	6306-2Z	6206-2Z	30*47*7	30*47*7
	6	Q3E132M6C	Alüminyum	260	481,0	2*M32	178	216	132	323	12	89	38	80	41	10	6208-2Z	6208-2Z	40*62*10	40*62*10
	2	Q3E132S2C	Alüminyum	279	440,5	2*M32	140	216	132	314	12	89	38	80	41	10	6208-2Z	6208-2Z	40*62*10	40*62*10
5,5	4	Q3E132M4B	Alüminyum	279	475,5	2*M32	140	216	132	314	12	89	38	80	41	10	6208-2Z	6208-2Z	40*62*10	40*62*10
	6	Q3E132M6D	Alüminyum	260	481,0	2*M32	178	216	132	323	12	89	38	80	41	10	6208-2Z	6208-2Z	40*62*10	40*62*10
	2	Q3E132M2A	Alüminyum	279	475,5	2*M32	140	216	132	314	12	89	38	80	41	10	6208-2Z	6208-2Z	40*62*10	40*62*10
7,5	4	Q3E132M4C	Alüminyum	279	475,5	2*M32	178	216	132	314	12	89	38	80	41	10	6208-2Z	6208-2Z	40*62*10	40*62*10
	6	Q3E160L6C	Alüminyum	302	576,0	2*M32	254	254	160	360	15	108	42	110	45	12	6309-2Z	6209-2Z	45*72*10	45*72*10
	2	Q3E160L2A	Alüminyum	302	576,0	2*M32	254	254	160	360	15	108	42	110	45	12	6309-2Z	6209-2Z	45*72*10	45*72*10
11,0	4	Q3E160L4A	Alüminyum	302	576,0	2*M32	254	254	160	360	15	108	42	110	45	12	6309-2Z	6209-2Z	45*72*10	45*72*10
	6	Q3E160L6D	Alüminyum	302	576,0	2*M32	254	254	160	360	15	108	42	110	45	12	6309-2Z	6209-2Z	45*72*10	45*72*10
	2	Q3E160L2C	Alüminyum	302	576,0	2*M32	254	254	160	360	15	108	42	110	45	12	6309-2Z	6209-2Z	45*72*10	45*72*10
15,5	4	Q3E160L4B	Alüminyum	302	576,0	2*M32	254	254	160	360	15	108	42	110	45	12	6309-2Z	6209-2Z	45*72*10	45*72*10
	6	Q3E180L6B	Alüminyum	347	689,0	2*M40	279	279	180	452	15	121	48	110	51,5	14	6310-2Z	6310-2Z	50*80*10	50*80*10
	2	Q3E160L2C	Alüminyum	302	576,0	2*M32	254	254	160	360	15	108	42	110	45	12	6309-2Z	6209-2Z	45*72*10	45*72*10
18,5	4	Q3E180M4B	Alüminyum	370	629,0	2*M40	241	279	180	428	15	121	48	110	51,5	14	6310-2Z	6310-2Z	50*80*10	50*80*10
	6	Q3E200L6C	Alüminyum	415	665,0	2*M50	305	318	200	461	19	133	55	110	59	16	6312-2Z	6312-2Z	60*90*10	60*90*10

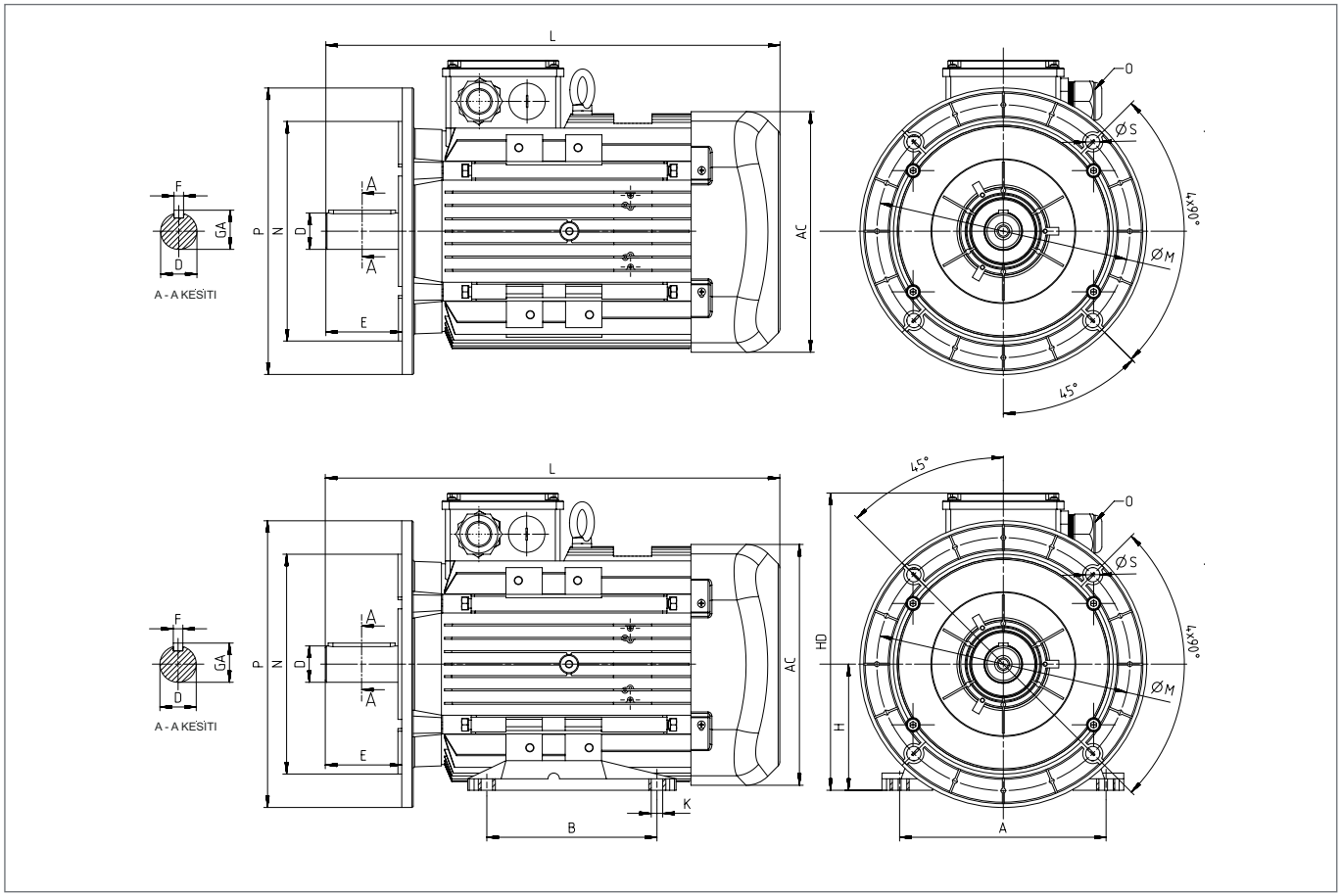
BOYUTLAR / DIMENSIONS - B3

				Ana Boyutlar Main Dimensions			Ayaklı Motorlar / Foot Mounted Motors						Mil / Shaft				Rulman / Bearing		Keçe / Seal	
Güç Power (kW)	Kutup Sayısı Number of Poles	Motor Tipi Motor Type	Gövde Tipi Housing Type	AC	L	O	B	A	H	HD	K	C	D (1)	E	GA	F (2)	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non Drive Side	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non Drive Side
22,0	2	Q3E160L2D	Alüminyum	302	576,0	2*M32	210	254	160	360	15	108	42	110	45	12	6309-2Z	6209-2Z	45*72*10	45*72*10
	2	Q3E180M2A	Alüminyum	370	629,0	2*M40	241	279	180	428	15	121	48	110	51,5	14	6310-2Z	6310-2Z	50*80*10	50*80*10
	4	Q3E180L4B	Alüminyum	370	629,0	2*M40	279	279	180	428	15	121	48	110	51,5	14	6310-2Z	6310-2Z	50*80*10	50*80*10
	6	Q3E200L6D	Alüminyum	415	665,0	2*M50	305	318	200	461	19	133	55	110	59	16	6312-2Z	6312-2Z	60*90*10	60*90*10
30,0	2	Q3E200L2B	Alüminyum	415	665,0	2*M50	305	318	200	461	19	133	55	110	59	16	6312-2Z	6310-2Z	60*90*10	50*80*10
	4	Q3E200L4D	Alüminyum	415	665,0	2*M50	311	318	200	461	19	133	55	110	59	16	6312-2Z	6310-2Z	60*90*10	50*80*10
	6	Q3E225M6C	Alüminyum	456	765,0	2*M40	311	356	225	485	19	149	60	140	64	18	6313-2Z	6313-2Z	65*100*13	65*100*13
37,0	2	Q3E200L2C	Alüminyum	415	665,0	2*M50	305	318	200	461	19	133	55	110	59	16	6312-2Z	6310-2Z	60*90*10	50*80*10
	4	Q3E225M4C	Alüminyum	456	765,0	2*M50	286	356	225	504	19	149	60	140	64	18	6313-2Z	6313-2Z	65*100*13	65*100*13
45,0	2	Q3E225M2B	Alüminyum	456	735,0	2*M50	311	356	225	504	19	149	55	110	59	16	6313-2Z	6313-2Z	65*100*13	65*100*13
	4	Q3E225M4D	Alüminyum	456	765,0	2*M50	311	356	225	504	19	149	60	140	64	18	6313-2Z	6313-2Z	65*100*13	65*100*13
55,0	2	Q3EP250M2C	Pik	527	886,0	2*M50	349	406	250	615	24	168	60	140	64	18	6316	6316	80*100*10	80*100*10
	4	Q3EP250M4E	Pik	527	886,0	2*M50	349	406	250	615	24	168	65	140	69	18	6316	6316	80*100*10	80*100*10
75,0	2	Q3EP280M2C	Pik	527	1025,0	2*M50	419	457	280	647	24	190	65	140	69	18	6316	6316	80*100*10	80*100*10
	4	Q3EP280M4C	Pik	527	1025,0	2*M50	419	457	280	647	24	190	75	140	80	20	6316	6316	80*100*10	80*100*10
90,0	2	Q3EP280M2D	Pik	527	1025,0	2*M50	419	457	280	647	24	190	65	140	69	18	6316	6316	80*100*10	80*100*10
	4	Q3EP280M4D	Pik	527	1025,0	2*M50	419	457	280	647	24	190	75	140	80	20	6316	6316	80*100*10	80*100*10
110,0	2	Q3EP315S2C	Pik	652	1176,0	2*M63	406	508	315	833	28	216	65	140	69	18	6316	6316	80*100*5.5	80*100*5.5
	4	Q3EP315S4C	Pik	652	1206,0	2*M63	406	508	315	833	28	216	80	170	85	22	6319	6319	95*115*5.5	95*115*5.5
132,0	2	Q3EP315M2B	Pik	652	1176,0	2*M63	457	508	315	833	28	216	65	140	69	18	6316	6316	80*100*5.5	80*100*5.5
	4	Q3EP315M4B	Pik	652	1206,0	2*M63	457	508	315	833	28	216	80	170	85	22	6319	6319	95*115*5.5	95*115*5.5
160,0	2	Q3EP315L2A	Pik	652	1287,0	2*M63	508	508	315	833	28	216	65	140	69	18	6316	6316	80*100*5.5	80*100*5.5
	4	Q3EP315L4A	Pik	652	1317,0	2*M63	508	508	315	833	28	216	80	170	85	22	6319	6319	95*115*5.5	95*115*5.5
200,0	2	Q3EP315L2C	Pik	652	1287,0	2*M63	508	508	315	833	28	216	65	140	69	18	6316	6316	80*100*5.5	80*100*5.5
	4	Q3EP315L4C	Pik	652	1317,0	2*M63	508	508	315	833	28	216	80	170	85	22	6319	6319	95*115*5.5	95*115*5.5
250,0	2	Q3EP355M2C	Pik	762	1512,0	4*M63	560	610	355	997	28	254	75	140	80	20	6317	6317	85*105*5.5	85*105*5.5
	4	Q3EP355M4C	Pik	762	1542,0	4*M63	560	610	355	997	28	254	95	170	100	25	6322	6322	110*130*5.5	110*130*5.5
315,0	2	Q3EP355L2B	Pik	762	1512,0	4*M63	630	610	355	997	28	254	75	140	80	20	6317	6317	85*105*5.5	85*105*5.5
	4	Q3EP355L4B	Pik	762	1542,0	4*M63	630	610	355	997	28	254	95	170	100	25	6322	6322	110*130*5.5	110*130*5.5
355,0	2	Q3EP355L2C	Pik	762	1512,0	4*M63	630	610	355	997	28	254	75	140	80	20	6317	6317	85*105*5.5	85*105*5.5
	4	Q3EP355L4C	Pik	762	1542,0	4*M63	630	610	355	997	28	254	95	170	100	25	6322	6322	110*130*5,5	110*130*5,5

(1) Toleranslar 28 mm'ye kadar DIN EN 50347 "j6", 28 mm ve üzeri "k6"
(2) DIN 6885'e göre

(1) Tolerance DIN EN 50347 "j6" up to 28 mm "k6" above 28 mm
(2) According to DIN 6885

BOYUTLAR / DIMENSIONS - B5, B35



				Ana Boyutlar Main Dimesions			Ayaklı Motorlar Foot Mounted Motors					Mil / Shaft				Rulman / Bearing		Keçe / Seal		Flanş / Flange (FA) (B5)				
Güç Power (kW)	Kutup Sayısı Number of Poles	Motor Tipi Motor Type	Gövde Tipi Housing Type	AC	L	O	B	A	H	HD	K	D (1)	E	GA	F (2)	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non Drive Side	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non Drive Side	P	N (3)	M	R	S
	2	Q3E80M2C	Alüminyum	158	283,5	1*M20	100	125	80	195	10	19	40	21,5	6	6204-2Z	6204-2Z	20*30*7	20*30*7	200	130	165	0	12
0,75	4	Q3E80M4D	Alüminyum	158	283,5	1*M20	100	125	80	195	10	19	40	21,5	6	6204-2Z	6204-2Z	20*30*7	20*30*7	200	130	165	0	12
	6	Q3E90L6C	Alüminyum	193	316,5	1*M25	125	140	90	222	10	24	50	27	8	6305-2Z	6205-2Z	25*40*7	25*40*7	200	130	165	0	12
	2	Q3E80M2D	Alüminyum	158	283,5	1*M20	100	125	80	195	10	19	40	21,5	6	6204-2Z	6204-2Z	20*30*7	20*30*7	200	130	165	0	12
1,1	4	Q3E90L4C	Alüminyum	193	316,5	1*M25	100	140	90	222	10	24	50	27	8	6305-2Z	6205-2Z	25*40*7	25*40*7	200	130	165	0	12
	6	Q3E90L6D	Alüminyum	193	344,5	1*M25	125	140	90	222	10	24	50	27	8	6305-2Z	6205-2Z	25*40*7	25*40*7	200	130	165	0	12
	2	Q3E90L2C	Alüminyum	193	316,5	1*M25	100	140	90	222	10	24	50	27	8	6305-2Z	6205-2Z	25*40*7	25*40*7	200	130	165	0	12
1,5	4	Q3E90L4D	Alüminyum	193	344,5	1*M25	125	140	90	222	10	24	50	27	8	6305-2Z	6205-2Z	25*40*7	25*40*7	200	130	165	0	12
	6	Q3E100L6D	Alüminyum	217	352,0	1*M25	140	160	100	241	12	28	60	31	8	6306-2Z	6205-2Z	30*47*7	25*47*7	250	180	215	0	15
	2	Q3E90L2D	Alüminyum	193	316,5	1*M25	125	140	90	222	10	24	50	27	8	6305-2Z	6205-2Z	25*40*7	25*40*7	200	130	165	0	12
2,2	4	Q3E100L4C	Alüminyum	217	352,0	1*M25	140	160	100	241	12	28	60	31	8	6306-2Z	6205-2Z	30*47*7	25*40*7	250	180	215	0	15
	6	Q3E112M6D	Alüminyum	232	395,5	2*M25	140	190	112	261	12	28	60	31	8	6306-2Z	6206-2Z	30*47*7	30*47*7	250	180	215	0	15
	2	Q3E100L2C	Alüminyum	217	352,0	1*M25	140	160	100	241	12	28	60	31	8	6306-2Z	6205-2Z	30*47*7	25*40*7	250	180	215	0	15
3,0	4	Q3E100L4D	Alüminyum	217	377,0	1*M25	140	160	100	241	12	28	60	31	8	6306-2Z	6205-2Z	30*47*7	25*40*7	250	180	215	0	15
	6	Q3E132M6B	Alüminyum	260	481,0	2*M32	178	216	132	323	12	38	80	41	10	6208-2Z	6208-2Z	40*62*10	40*62*10	300	230	265	0	15
	2	Q3E112M2C	Alüminyum	232	395,5	2*M25	140	190	112	261	12	28	60	31	8	6306-2Z	6206-2Z	30*47*7	30*47*7	250	180	215	0	15
4,0	4	Q3E112M4C	Alüminyum	232	395,5	2*M25	140	190	112	261	12	28	60	31	8	6306-2Z	6206-2Z	30*47*7	30*47*7	250	180	215	0	15
	6	Q3E132M6C	Alüminyum	260	481,0	2*M32	178	216	132	323	12	38	80	41	10	6208-2Z	6208-2Z	40*62*10	40*62*10	300	230	265	0	15
	2	Q3E132S2C	Alüminyum	279	440,5	2*M32	140	216	132	314	12	38	80	41	10	6208-2Z	6208-2Z	40*62*10	40*62*10	300	230	265	0	15
5,5	4	Q3E132M4B	Alüminyum	279	475,5	2*M32	140	216	132	314	12	38	80	41	10	6208-2Z	6208-2Z	40*62*10	40*62*10	300	230	265	0	15
	6	Q3E132M6D	Alüminyum	260	481,0	2*M32	178	216	132	323	12	38	80	41	10	6208-2Z	6208-2Z	40*62*10	40*62*10	300	230	265	0	15
	2	Q3E132M2A	Alüminyum	279	475,5	2*M32	140	216	132	314	12	38	80	41	10	6208-2Z	6208-2Z	40*62*10	40*62*10	300	230	265	0	15
7,5	4	Q3E132M4C	Alüminyum	279	475,5	2*M32	178	216	132	314	12	38	80	41	10	6208-2Z	6208-2Z	40*62*10	40*62*10	300	230	265	0	15
	6	Q3E160L6C	Alüminyum	302	576,0	2*M32	254	254	160	360	15	42	110	45	12	6309-2Z	6209-2Z	45*72*10	45*72*10	350	250	300	0	19
	2	Q3E160L2A	Alüminyum	302	576,0	2*M32	254	254	160	360	15	42	110	45	12	6309-2Z	6209-2Z	45*72*10	45*72*10	350	250	300	0	19
11,0	4	Q3E160L4A	Alüminyum	302	576,0	2*M32	254	254	160	360	15	42	110	45	12	6309-2Z	6209-2Z	45*72*10	45*72*10	350	250	300	0	19
	6	Q3E160L6D	Alüminyum	302	576,0	2*M32	254	254	160	360	15	42	110	45	12	6309-2Z	6209-2Z	45*72*10	45*72*10	350	250	300	0	19

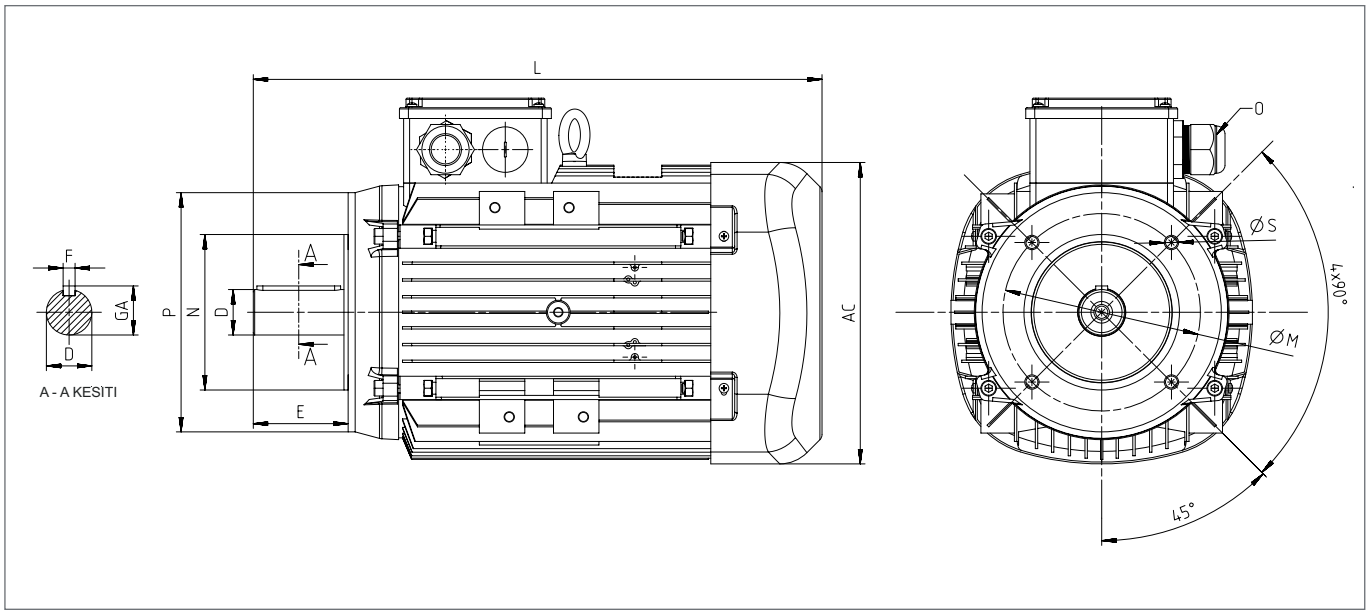
BOYUTLAR / DIMENSIONS - B5, B35

				Ana Boyutlar Main Dimesions			Ayaklı Motorlar Foot Mounted Motors					Mil / Shaft				Rulman / Bearing		Keçe / Seal		Flanş / Flange (FA) (B5)				
Güç Power (kW)	Kutup Sayısı Number of Poles	Motor Tipi Motor Type	Gövde Tipi Housing Type	AC	L	O	B	A	H	HD	K	D (1)	E	GA	F (2)	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non Drive Side	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non Drive Side	P	N (3)	M	R	S
15,0	2	Q3E160L2C	Alüminyum	302	576,0	2*M32	254	254	160	360	15	42	110	45	12	6309-2Z	6209-2Z	45*72*10	45*72*10	350	250	300	0	19
	4	Q3E160L4B	Alüminyum	302	576,0	2*M32	254	254	160	360	15	42	110	45	12	6309-2Z	6209-2Z	45*72*10	45*72*10	350	250	300	0	19
	6	Q3E180L6B	Alüminyum	347	689,0	2*M40	279	279	180	452	15	48	110	51,5	14	6310-2Z	6310-2Z	50*80*10	50*80*10	350	250	300	0	19
18,5	2	Q3E160L2C	Alüminyum	302	576,0	2*M32	254	254	160	360	15	42	110	45	12	6309-2Z	6209-2Z	45*72*10	45*72*10	350	250	300	0	19
	4	Q3E180M4B	Alüminyum	370	629,0	2*M40	241	279	180	428	15	48	110	51,5	14	6310-2Z	6310-2Z	50*80*10	50*80*10	350	250	300	0	19
	6	Q3E200L6C	Alüminyum	415	665,0	2*M50	305	318	200	461	19	55	110	59	16	6312-2Z	6312-2Z	60*90*10	60*90*10	400	300	350	0	19
22,0	2	Q3E160L2D	Alüminyum	302	576,0	2*M32	210	254	160	360	15	42	110	45	12	6309-2Z	6209-2Z	45*72*10	45*72*10	350	250	300	0	19
	2	Q3E180M2A	Alüminyum	370	629,0	2*M40	241	279	180	428	15	48	110	51,5	14	6310-2Z	6310-2Z	50*80*10	50*80*10	350	250	300	0	19
	4	Q3E180L4B	Alüminyum	370	629,0	2*M40	279	279	180	428	15	48	110	51,5	14	6310-2Z	6310-2Z	50*80*10	50*80*10	350	250	300	0	19
	6	Q3E200L6D	Alüminyum	415	665,0	2*M50	305	318	200	461	19	55	110	59	16	6312-2Z	6312-2Z	60*90*10	60*90*10	400	300	350	0	19
30,0	2	Q3E200L2B	Alüminyum	415	665,0	2*M50	305	318	200	461	19	55	110	59	16	6312-2Z	6310-2Z	60*90*10	50*80*10	400	300	350	0	19
	4	Q3E200L4D	Alüminyum	415	665,0	2*M50	305	318	200	461	19	55	110	59	16	6312-2Z	6310-2Z	60*90*10	50*80*10	400	300	350	0	19
	6	Q3E225M6C	Alüminyum	456	765,0	2*M40	311	356	225	485	19	60	140	64	18	6313-2Z	6313-2Z	65*100*13	65*100*13	450	350	400	0	19
37,0	2	Q3E200L2C	Alüminyum	415	665,0	2*M50	305	318	200	461	19	55	110	59	16	6312-2Z	6310-2Z	60*90*10	50*80*10	400	300	350	0	19
	4	Q3E225M4C	Alüminyum	456	765,0	2*M50	286	356	225	504	19	60	140	64	18	6313-2Z	6313-2Z	65*100*13	65*100*13	450	350	400	0	19
45,0	2	Q3E225M2B	Alüminyum	456	735,0	2*M50	311	356	225	504	19	55	110	59	16	6313-2Z	6313-2Z	65*100*13	65*100*13	450	350	400	0	19
	4	Q3E225M4D	Alüminyum	456	765,0	2*M50	311	356	225	504	19	60	140	64	18	6313-2Z	6313-2Z	65*100*13	65*100*13	450	350	400	0	19
55,0	2	Q3EP250M2C	Pik	527	886,0	2*M50	349	406	250	615	24	60	140	64	18	6316	6316	80*100*10	80*100*10	550	450	500	0	19
	4	Q3EP250M4E	Pik	527	886,0	2*M50	349	406	250	615	24	65	140	69	18	6316	6316	80*100*10	80*100*10	550	450	500	0	19
75,0	2	Q3EP280M2C	Pik	527	1025,0	2*M50	419	457	280	647	24	65	140	69	18	6316	6316	80*100*10	80*100*10	550	450	500	0	19
	4	Q3EP280M4C	Pik	527	1025,0	2*M50	419	457	280	647	24	75	140	80	20	6316	6316	80*100*10	80*100*10	550	450	500	0	19
90,0	4	Q3EP280M2D	Pik	527	1025,0	2*M50	419	457	280	647	24	65	140	69	18	6316	6316	80*100*10	80*100*10	550	450	500	0	19
	4	Q3EP280M4D	Pik	527	1025,0	2*M50	419	457	280	647	24	75	140	80	20	6316	6316	80*100*10	80*100*10	550	450	500	0	19
110,0	2	Q3EP315S2C	Pik	652	1176,0	2*M63	406	508	315	833	28	65	140	69	18	6316	6316	80*100*5.5	80*100*5.5	660	550	600	0	24
	4	Q3EP315S4C	Pik	652	1206,0	2*M63	406	508	315	833	28	80	170	85	22	6319	6319	95*115*5.5	95*115*5.5	660	550	600	0	24
132,0	2	Q3EP315M2B	Pik	652	1176,0	2*M63	457	508	315	833	28	65	140	69	18	6316	6316	80*100*5.5	80*100*5.5	660	550	600	0	24
	4	Q3EP315M4B	Pik	652	1206,0	2*M63	457	508	315	833	28	80	170	85	22	6319	6319	95*115*5.5	95*115*5.5	660	550	600	0	24
160,0	2	Q3EP315L2A	Pik	652	1287,0	2*M63	508	508	315	833	28	65	140	69	18	6316	6316	80*100*5.5	80*100*5.5	660	550	600	0	24
	4	Q3EP315L4A	Pik	652	1317,0	2*M63	508	508	315	833	28	80	170	85	22	6319	6319	95*115*5.5	95*115*5.5	660	550	600	0	24
200,0	2	Q3EP315L2C	Pik	652	1287,0	2*M63	508	508	315	833	28	65	140	69	18	6316	6316	80*100*5.5	80*100*5.5	660	550	600	0	24
	4	Q3EP315L4C	Pik	652	1317,0	2*M63	508	508	315	833	28	80	170	85	22	6319	6319	95*115*5.5	95*115*5.5	660	550	600	0	24
250,0	2	Q3EP355M2C	Pik	762	1512,0	4*M63	560	610	355	997	28	75	140	80	20	6317	6317	85*105*5.5	85*105*5.5	800	680	740	0	24
	4	Q3EP355M4C	Pik	762	1542,0	4*M63	560	610	355	997	28	95	170	100	25	6322	6322	110*130*5.5	110*130*5.5	800	680	740	0	24
315,0	2	Q3EP355L2B	Pik	762	1512,0	4*M63	630	610	355	997	28	75	140	80	20	6317	6317	85*105*5.5	85*105*5.5	800	680	740	0	24
	4	Q3EP355L4B	Pik	762	1542,0	4*M63	630	610	355	997	28	95	170	100	25	6322	6322	110*130*5.5	110*130*5.5	800	680	740	0	24
355,0	2	Q3EP355L2C	Pik	762	1512,0	4*M63	630	610	355	997	28	75	140	80	20	6317	6317	85*105*5,5	85*105*5,5	800	680	740	0	24
	4	Q3EP355L4C	Pik	762	1542,0	4*M63	630	610	355	997	28	95	170	100	25	6322	6322	110*130*5,5	110*130*5,5	800	680	740	0	24

(1) Toleranslar 28 mm'ye kadar DIN EN 50347 "j6", 28 mm ve üzeri "k6"
(2) DIN 6885'e göre
(3) Tolerans DIN EN 50347 "j6"

(1) Tolerance DIN EN 50347 "j6" up to 28 mm "k6" above 28 mm
(2) According to DIN 6885
(3) Tolerance DIN EN 50347 "j6"

BOYUTLAR / DIMENSIONS - B14a, B34a

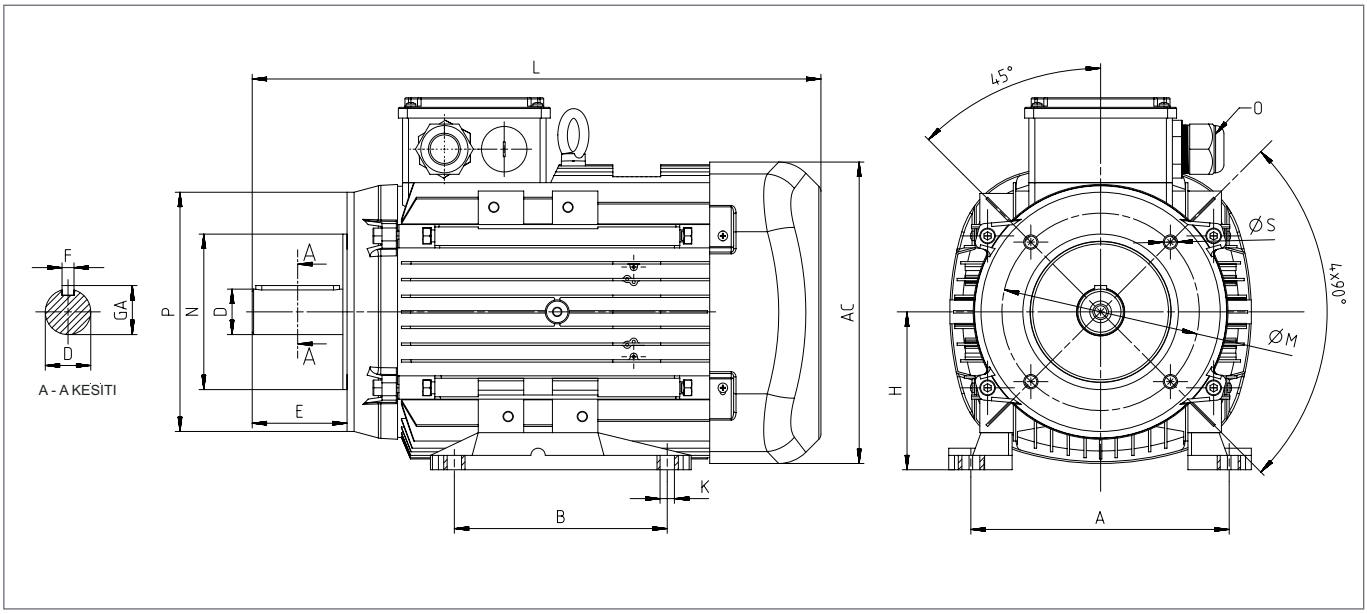


				Ana Boyutlar Main Dimesions			Ayaklı Motorlar Foot Mounted Motors					Mil / Shaft				Rulman / Bearing		Keçe / Seal		Flanş / Flange (FC) (B14a)				
Güç Power (kW)	Kutup Sayısı Number of Poles	Motor Tipi Motor Type	Gövde Tipi Housing Type	AC	L	O	B	A	H	HD	K	D(1)	E	GA	F(2)	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non Drive Side	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non Drive Side	P	N(3)	M	R	S
	2	Q3E80M2C	Alüminyum	158	283,5	1*M20	100	125	80	195	10	19	40	21,5	6	6204-2Z	6204-2Z	20*30*7	20*30*7	120	80	100	0	M6
0,75	4	Q3E80M4D	Alüminyum	158	283,5	1*M20	100	125	80	195	10	19	40	21,5	6	6204-2Z	6204-2Z	20*30*7	20*30*7	120	80	100	0	M6
	6	Q3E90L6C	Alüminyum	193	316,5	1*M25	125	140	90	222	10	24	50	27	8	6305-2Z	6205-2Z	25*40*7	25*40*7	200	130	165	0	12
	2	Q3E80M2D	Alüminyum	158	283,5	1*M20	100	125	80	195	10	19	40	21,5	6	6204-2Z	6204-2Z	20*30*7	20*30*7	120	80	100	0	M6
1,1	4	Q3E90L4C	Alüminyum	193	316,5	1*M25	100	140	90	222	10	24	50	27	8	6305-2Z	6205-2Z	25*40*7	25*40*7	140	95	115	0	M8
	6	Q3E90L6D	Alüminyum	193	344,5	1*M25	125	140	90	222	10	24	50	27	8	6305-2Z	6205-2Z	25*40*7	25*40*7	200	130	165	0	12
	2	Q3E90L2C	Alüminyum	193	316,5	1*M25	100	140	90	222	10	24	50	27	8	6305-2Z	6205-2Z	25*40*7	25*40*7	140	95	115	0	M8
1,5	4	Q3E90L4D	Alüminyum	193	344,5	1*M25	125	140	90	222	10	24	50	27	8	6305-2Z	6205-2Z	25*40*7	25*40*7	140	95	115	0	M8
	6	Q3E100L6D	Alüminyum	217	352,0	1*M25	140	160	100	241	12	28	60	31	8	6306-2Z	6205-2Z	30*47*7	25*47*7	250	180	215	0	15
	2	Q3E90L2D	Alüminyum	193	316,5	1*M25	125	140	90	222	10	24	50	27	8	6305-2Z	6205-2Z	25*40*7	25*40*7	140	95	115	0	M8
2,2	4	Q3E100L4C	Alüminyum	217	352,0	1*M25	140	160	100	241	12	28	60	31	8	6306-2Z	6205-2Z	30*47*7	25*40*7	160	110	130	0	M8
	6	Q3E112M6D	Alüminyum	232	395,5	2*M25	140	190	112	261	12	28	60	31	8	6306-2Z	6206-2Z	30*47*7	30*47*7	250	180	215	0	15
	2	Q3E100L2C	Alüminyum	217	352,0	1*M25	140	160	100	241	12	28	60	31	8	6306-2Z	6205-2Z	30*47*7	25*40*7	160	110	130	0	M8
3,0	4	Q3E100L4D	Alüminyum	217	377,0	1*M25	140	160	100	241	12	28	60	31	8	6306-2Z	6205-2Z	30*47*7	25*40*7	160	110	130	0	M8
	6	Q3E132M6B	Alüminyum	260	481,0	2*M32	178	216	132	323	12	38	80	41	10	6208-2Z	6208-2Z	40*62*10	40*62*10	300	230	265	0	15
	2	Q3E112M2C	Alüminyum	232	395,5	2*M25	140	190	112	261	12	28	60	31	8	6306-2Z	6206-2Z	30*47*7	30*47*7	160	110	130	0	M8
4,0	4	Q3E112M4C	Alüminyum	232	395,5	2*M25	140	190	112	261	12	28	60	31	8	6306-2Z	6206-2Z	30*47*7	30*47*7	160	110	130	0	M8
	6	Q3E132M6C	Alüminyum	260	481,0	2*M32	178	216	132	323	12	38	80	41	10	6208-2Z	6208-2Z	40*62*10	40*62*10	300	230	265	0	15
	2	Q3E132S2C	Alüminyum	279	440,5	2*M32	140	216	132	314	12	38	80	41	10	6208-2Z	6208-2Z	40*62*10	40*62*10	200	130	165	0	M10
5,5	4	Q3E132M4B	Alüminyum	279	475,5	2*M32	140	216	132	314	12	38	80	41	10	6208-2Z	6208-2Z	40*62*10	40*62*10	200	130	165	0	M10
	6	Q3E132M6D	Alüminyum	260	481,0	2*M32	178	216	132	323	12	38	80	41	10	6208-2Z	6208-2Z	40*62*10	40*62*10	300	230	265	0	15
7,5	2	Q3E132M2A	Alüminyum	279	475,5	2*M32	140	216	132	314	12	38	80	41	10	6208-2Z	6208-2Z	40*62*10	40*62*10	200	130	165	0	M10
	4	Q3E132M4C	Alüminyum	279	475,5	2*M32	178	216	132	314	12	38	80	41	10	6208-2Z	6208-2Z	40*62*10	40*62*10	200	130	165	0	M10

(1) Toleranslar 28 mm'ye kadar DIN EN 50347 "j6", 28 mm ve üzeri "k6"
(2) DIN 6885'e göre
(3) Tolerans DIN EN 50347 "j6"

(1) Tolerance DIN EN 50347 "j6" up to 28 mm "k6" above 28 mm
(2) According to DIN 6885
(3) Tolerance DIN EN 50347 "j6"

BOYUTLAR / DIMENSIONS - B14b, B34b



				Ana Boyutlar Main Dimesions			Ayaklı Motorlar Foot Mounted Motors					Mil / Shaft				Rulman / Bearing		Keçe / Seal		Flanş / Flange (FB) (B14b)				
Güç Power (kW)	Kutup Sayısı Number of Poles	Motor Tipi Motor Type	Gövde Tipi Housing Type	AC	L	O	B	A	H	HD	K	D(1)	E	GA	F(2)	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non Drive Side	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non Drive Side	P	N(3)	M	R	S
0,75	2	Q3E80M2C	Alüminyum	158	283,5	1*M20	100	125	80	195	10	19	40	21,5	6	6204-2Z	6204-2Z	20*30*7	20*30*7	160	110	130	0	M8
	4	Q3E80M4D	Alüminyum	158	283,5	1*M20	100	125	80	195	10	19	40	21,5	6	6204-2Z	6204-2Z	20*30*7	20*30*7	160	110	130	0	M8
	6	Q3E90L6C	Alüminyum	193	316,5	1*M25	125	140	90	222	10	24	50	27	8	6305-2Z	6205-2Z	25*40*7	25*40*7	200	130	165	0	12
1,1	2	Q3E80M2D	Alüminyum	158	283,5	1*M20	100	125	80	195	10	19	40	21,5	6	6204-2Z	6204-2Z	20*30*7	20*30*7	160	110	130	0	M8
	4	Q3E90L4C	Alüminyum	193	316,5	1*M25	100	140	90	222	10	24	50	27	8	6305-2Z	6205-2Z	25*40*7	25*40*7	160	110	130	0	M8
	6	Q3E90L6D	Alüminyum	193	344,5	1*M25	125	140	90	222	10	24	50	27	8	6305-2Z	6205-2Z	25*40*7	25*40*7	200	130	165	0	12
1,5	2	Q3E90L2C	Alüminyum	193	316,5	1*M25	100	140	90	222	10	24	50	27	8	6305-2Z	6205-2Z	25*40*7	25*40*7	160	110	130	0	M8
	4	Q3E90L4D	Alüminyum	193	344,5	1*M25	125	140	90	222	10	24	50	27	8	6305-2Z	6205-2Z	25*40*7	25*40*7	160	110	130	0	M8
	6	Q3E100L6D	Alüminyum	217	352,0	1*M25	140	160	100	241	12	28	60	31	8	6306-2Z	6205-2Z	30*47*7	25*47*7	250	180	215	0	15
2,2	2	Q3E90L2D	Alüminyum	193	316,5	1*M25	125	140	90	222	10	24	50	27	8	6305-2Z	6205-2Z	25*40*7	25*40*7	160	110	130	0	M8
	4	Q3E100L4C	Alüminyum	217	352,0	1*M25	140	160	100	241	12	28	60	31	8	6306-2Z	6205-2Z	30*47*7	25*40*7	200	130	165	0	M10
	6	Q3E112M6D	Alüminyum	232	395,5	2*M25	140	190	112	261	12	28	60	31	8	6306-2Z	6206-2Z	30*47*7	30*47*7	250	180	215	0	15
3,0	2	Q3E100L2C	Alüminyum	217	352,0	1*M25	140	160	100	241	12	28	60	31	8	6306-2Z	6205-2Z	30*47*7	25*40*7	200	130	165	0	M10
	4	Q3E100L4D	Alüminyum	217	377,0	1*M25	140	160	100	241	12	28	60	31	8	6306-2Z	6205-2Z	30*47*7	25*40*7	200	130	165	0	M10
	6	Q3E132M6B	Alüminyum	260	481,0	2*M32	178	216	132	323	12	38	80	41	10	6208-2Z	6208-2Z	40*62*10	40*62*10	300	230	265	0	15
4,0	2	Q3E112M2C	Alüminyum	232	395,5	2*M25	140	190	112	261	12	28	60	31	8	6306-2Z	6206-2Z	30*47*7	30*47*7	200	130	165	0	M10
	4	Q3E112M4C	Alüminyum	232	395,5	2*M25	140	190	112	261	12	28	60	31	8	6306-2Z	6206-2Z	30*47*7	30*47*7	200	130	165	0	M10
	6	Q3E132M6C	Alüminyum	260	481,0	2*M32	178	216	132	323	12	38	80	41	10	6208-2Z	6208-2Z	40*62*10	40*62*10	300	230	265	0	15
5,5	2	Q3E132S2C	Alüminyum	279	440,5	2*M32	140	216	132	314	12	38	80	41	10	6208-2Z	6208-2Z	40*62*10	40*62*10	250	180	215	0	M12 veya 15
	4	Q3E132M4B	Alüminyum	279	475,5	2*M32	140	216	132	314	12	38	80	41	10	6208-2Z	6208-2Z	40*62*10	40*62*10	250	180	215	0	M12 veya 15
	6	Q3E132M6D	Alüminyum	260	481,0	2*M32	178	216	132	323	12	38	80	41	10	6208-2Z	6208-2Z	40*62*10	40*62*10	300	230	265	0	15
7,5	2	Q3E132M2A	Alüminyum	279	475,5	2*M32	140	216	132	314	12	38	80	41	10	6208-2Z	6208-2Z	40*62*10	40*62*10	250	180	215	0	M12 veya 15
	4	Q3E132M4C	Alüminyum	279	475,5	2*M32	178	216	132	314	12	38	80	41	10	6208-2Z	6208-2Z	40*62*10	40*62*10	250	180	215	0	M12 veya 15

(1) Toleranslar 28 mm'ye kadar DIN EN 50347 "j6", 28 mm ve üzeri "k6"
(2) DIN 6885'e göre
(3) Tolerans DIN EN 50347 "j6"

(1) Tolerance DIN EN 50347 "j6" up to 28 mm "k6" above 28 mm
(2) According to DIN 6885
(3) Tolerance DIN EN 50347 "j6"

ELEKTRİKSEL ÖZELLİKLER - 50 Hz / ELECTRICAL CHARACTERISTICS AT 50 Hz

	Motor Tipi / Motor Type	Gövde Tipi / Housing Type	Nominal / Rated Values: Güç / Power kW	HP	Devir / Speed d/d	Akım / Current A	Moment / Torque Nm	Kalkıştaki Değerler / Starting Values: Akım / Current I_A / A_N 人	Δ	Moment / Torque M_A / M_N 人	Δ	Devrilme Momenti Oranı / Breakdown Torque Ratio Mk/Mn	Verim * / Efficiency* η% 4/4	3/4	2/4	Cos ϕ 4/4	J kgm²	Ağırlık (B3) / Weight (B3) kg	Ses Seviyesi dBA** / Sound Pressure Level dBA**
	2kutup3000d/d																		
220/380V	Q2E71M2C*	Alüminyum	0,37	1/2	2850	1,0	1,2	7,7	-	3,6	-	3,8	69,5	69,6	67,3	0,80	0,00067	8	54
	Q2E71M2D*	Alüminyum	0,55	3/4	2860	1,2	1,8	7,8	-	3,7	-	3,9	74,1	74,2	72,0	0,82	0,00086	9,7	54
	Q2E80M2B	Alüminyum	0,75	1,0	2860	1,7	2,5	7,7	-	3,7	-	4,0	77,4	77,0	73,6	0,84	0,00109	11	58
	Q2E80M2D	Alüminyum	1,1	1,5	2860	2,4	3,6	7,7	-	3,7	-	4,1	79,6	79,1	77,1	0,84	0,00150	13	58
	Q2E90L2C	Alüminyum	1,5	2,0	2900	3,2	5,0	7,8	-	3,4	-	4,0	81,3	80,8	77,7	0,83	0,00182	17	62
	Q2E90L2D	Alüminyum	2,2	3,0	2900	4,7	7,3	7,9	-	3,5	-	4,1	83,2	82,9	80,5	0,84	0,00182	18	62
	Q2E100L2C	Alüminyum	3,0	4,0	2875	6,0	9,9	9,1	-	3,9	-	4,6	84,6	84,5	83,1	0,90	0,00335	21	64
380/660V	Q2E112M2C	Alüminyum	4,0	5,5	2900	7,7	13,2	2,9	8,6	1,3	3,8	4,5	85,8	85,7	84,3	0,88	0,00489	31	67
	Q2E132S2C	Alüminyum	5,5	7,5	2900	10,4	18,0	3,0	8,9	1,1	3,2	4,2	87,0	86,9	85,2	0,91	0,01410	46	70
	Q2E132M2A	Alüminyum	7,5	10,0	2920	13,6	24,5	2,9	8,6	1,0	3,0	3,7	88,1	87,7	85,9	0,90	0,01596	53	70
	Q2E160M2B	Alüminyum	11,0	15,0	2930	20,3	35,9	3,1	9,4	1,0	3,0	3,8	89,4	89,3	87,5	0,91	0,02644	76	71
	Q2E160L2A	Alüminyum	15,0	20,0	2930	27,0	48,7	2,9	8,6	1,0	3,0	3,3	90,3	90,2	88,4	0,93	0,03317	82	71
	Q2E160L2C	Alüminyum	18,5	25,0	2930	32,8	60,0	3,3	10,0	0,5	1,4	4,3	90,9	90,8	89,0	0,91	0,04075	90	71
	Q2E180M2A	Alüminyum	22,0	30,0	2945	38,7	71,3	2,6	7,9	0,7	2,2	3,4	91,3	90,9	89,5	0,91	0,06193	114	77
	Q2E200L2B	Alüminyum	30,0	40,0	2955	56,6	97,1	2,6	7,9	0,6	1,9	4,1	92,0	91,4	89,6	0,86	0,11917	167	80
	Q2E200L2C	Alüminyum	37,0	50,0	2955	66,8	119,4	2,8	8,3	0,6	1,9	3,1	92,5	91,9	90,1	0,91	0,15010	167	80
	Q2E225M2B	Alüminyum	45,0	60,0	2965	85,7	145,2	2,8	8,3	0,7	2,2	3,4	92,9	92,6	91,1	0,86	0,23505	235	81
	Q2EP250M2B	Pik	55,0	75,0	2970	97,9	178,5	1,7	5,1	0,7	2,1	3,1	93,2	92,1	90,9	0,91	0,48707	486	82
	Q2EP280M2B	Pik	75,0	100,0	2970	135,0	241,1	3,0	9,1	0,7	2,1	2,6	93,8	93,7	92,5	0,90	0,54033	576	84
	Q2EP280M2C	Pik	90,0	125,0	2970	156,5	291,3	3,3	10,0	1,1	3,2	3,6	94,1	93,9	92,9	0,93	0,64510	585	84
400/690V	Q2EP315S2C	Pik	110,0	127,0	2.975	185	353	2,6	7,8	0,7	2,2	2,4	94,3	94,3	93,1	0,91	1,43600	920	87
	Q2EP315M2C	Pik	132,0	152,0	2.975	221	423	2,6	7,8	0,8	2,3	2,4	94,6	94,6	93,4	0,91	1,72300	970	87
	Q2EP315L2C	Pik	160,0	184,0	2.975	268	513	2,5	7,5	0,8	2,3	2,4	94,8	94,8	93,6	0,91	1,95300	1.170	87
	Q2EP315L2D	Pik	200,0	230,0	2.975	334	643	2,7	8,0	0,8	2,4	2,6	95,0	95,0	93,8	0,91	2,52700	1.200	87
	Q2EP355M2C	Pik	250,0	280,0	2.985	422	799	2,3	7,0	0,7	2,0	2,4	95,0	95,0	93,8	0,90	3,92000	1.690	87
	Q2EP355L2C	Pik	315,0	353,0	2.985	532	1.007	2,5	7,4	0,7	2,0	2,3	95,0	95,0	93,8	0,90	4,17000	1.870	87
	Q2EP355L2D	Pik	355,0	398,0	2.985	599	1.135	2,5	7,5	0,6	1,8	2,1	95,0	95,0	93,8	0,90	4,44000	1.953	87
	4kutup1500d/d																		
220/380V	Q2E71M4C*	Alüminyum	0,25	1/3	1415	0,7	1,7	4,4	-	2,3	-	3,4	68,5	68,8	68,8	0,74	0,00095	9	45
	Q2E71M4D*	Alüminyum	0,37	1/2	1415	1,1	2,5	4,4	-	2,3	-	3,4	72,7	73,1	72,0	0,75	0,00095	8,5	45
	Q2E80M4B*	Alüminyum	0,55	3/4	1415	1,5	3,7	4,8	-	2,8	-	3,2	77,1	77,6	76,4	0,76	0,00205	10,5	49
	Q2E80M4D	Alüminyum	0,75	1,0	1435	2	5,1	5,2	-	2,9	-	3,2	79,6	78,9	75,3	0,7	0,00268	12	49
	Q2E90L4C	Alüminyum	1,1	1,5	1430	2,5	7,4	6,7	-	2,9	-	3,3	81,4	80,8	78,1	0,81	0,00365	18	54
	Q2E90L4D	Alüminyum	1,5	2,0	1430	3,5	10,0	7,0	-	3,2	-	3,6	82,8	82,0	79,3	0,76	0,00365	18	55
	Q2E100L4C	Alüminyum	2,2	3,0	1430	5,0	14,6	7,1	-	3,9	-	4,2	84,3	83,8	81,2	0,77	0,00545	26	56
	Q2E100L4D	Alüminyum	3,0	4,0	1440	6,4	20,0	7,1	-	3,4	-	3,8	85,5	85,1	83,0	0,75	0,00581	26	56
380/660V	Q2E112M4C	Alüminyum	4,0	5,5	1440	8,7	26,3	2,6	7,9	0,9	2,8	3,9	86,6	86,0	84,5	0,81	0,01123	31	58
	Q2E132M4B	Alüminyum	5,5	7,5	1450	11,7	36,2	2,4	7,1	1,1	3,2	3,9	87,7	87,6	85,2	0,81	0,02763	54	61
	Q2E132M4C	Alüminyum	7,5	10,0	1450	15,8	49,4	2,9	8,7	0,9	2,8	4,1	88,7	88,5	86,6	0,80	0,02980	57	61
	Q2E160M4B	Alüminyum	11,0	15,0	1460	22,5	72,5	2,0	6,0	0,7	2,2	2,7	89,8	89,7	88,2	0,83	0,05547	76	63
	Q2E160L4A	Alüminyum	15,0	20,0	1460	28,8	98,5	2,0	6,0	0,8	2,3	2,7	90,6	90,5	89,5	0,83	0,06922	92	63
	Q2E180M4B	Alüminyum	18,5	25,0	1465	36,5	121,4	2,5	7,4	1,0	3,0	4,1	91,2	91,1	90,2	0,84	0,11220	119	69
	Q2E180L4B	Alüminyum	22,0	30,0	1465	44,5	143,5	2,6	7,7	0,8	2,4	3,4	91,6	91,5	90,6	0,82	0,12773	127	69
	Q2E200L4D	Alüminyum	30,0	40,0	1465	57,3	195,6	2,4	7,3	0,8	2,5	3,2	92,3	92,1	91,1	0,86	0,26448	177	70
	Q2E225M4C	Alüminyum	37,0	50,0	1480	70,7	240,0	2,5	7,5	1,0	2,9	3,5	92,7	92,6	91,5	0,84	0,36429	260	71
	Q2E225M4D	Alüminyum	45,0	60,0	1470	85,9	292,3	2,6	7,7	1,0	2,9	3,5	93,1	93,0	91,9	0,85	0,43513	280	71
	Q2EP250M4D	Pik	55,0	75,0	1480	105,0	359,0	2,4	7,1	0,7	2,1	2,9	93,5	93,2	90,7	0,83	0,90782	506	72
	Q2EP280M4B	Pik	75,0	100,0	1475	147,0	485,7	2,5	7,4	0,7	2,1	3,1	94,0	93,9	93,2	0,85	1,06114	624	73
	Q2EP280M4C	Pik	90,0	125,0	1470	173,8	584,2	2,5	7,4	0,7	2,1	3,0	94,2	94,4	93,6	0,85	1,14768	638	73

ELEKTRİKSEL ÖZELLİKLER - 50 Hz / ELECTRICAL CHARACTERISTICS AT 50 Hz

	Motor Tipi Motor Type	Gövde Tipi Housing Type	Nominal / Rated Values					Kalkıştaki Değerler / Starting Values				Devrilme Momenti Oranı Breakedown Torque Ratio	Verim * Efficiency* η%			Cos ϕ	J	Ağırlık (B3) Weight (B3)	Ses Seviyesi dBA** Sound Pressure Level dBA**
			Güç / Power		Devir Speed	Akım Current	Moment Torque	Akım Current I_A / A_N		Moment Torque M_A / M_N									
			kW	HP	d/d	A	Nm	⅄	Δ	⅄	Δ	Mk/Mn	4/4	3/4	2/4	4/4	kgm²	kg	
	4kutup1500d/d																		
400/690V	Q2EP315S4C	Pik	110,0	127,0	1.480	191	709	2,4	7,2	0,7	2,2	2,5	94,5	94,5	93,9	0,88	3,03500	925	70
	Q2EP315M4C	Pik	132,0	152,0	1.480	229	851	2,3	7,0	0,7	2,1	2,4	94,7	94,7	94,1	0,88	3,41500	1.010	70
	Q2EP315L4C	Pik	160,0	184,0	1.480	273	1.032	2,5	7,5	0,7	2,2	2,5	94,9	94,9	94,3	0,89	4,11900	1.080	76
	Q2EP315L4D	Pik	200,0	230,0	1.480	341	1.290	2,5	7,5	0,8	2,3	2,5	95,1	95,1	94,5	0,89	5,20300	1.200	76
	Q2EP355M4C	Pik	250,0	280,0	1.485	426	1.607	2,6	7,9	0,8	2,3	2,5	95,1	95,1	94,5	0,89	8,79000	1.720	76
	Q2EP355L4C	Pik	315,0	353,0	1.485	531	2.025	2,5	7,4	0,7	2,0	2,3	95,1	95,1	94,5	0,90	10,13300	1.920	87
	Q2EP355L4D	Pik	355,0	398,0	1.485	605	2.283	2,9	8,8	0,6	1,8	2,0	95,1	95,1	94,5	0,89	10,67800	1.953	87
	6kutup1000d/d																		
220/380V	Q2E90L6C	Alüminyum	0,75	1,0	940	2,6	7,7	4,0	-	2,3	-	2,5	75.9	74,7	73,2	0,68	0,00371	18	53
	Q2E90L6D	Alüminyum	1,1	1,5	940	3,2	11,3	4,0	-	2,6	-	2,6	78,1	77,6	74,8	0,65	0,00444	20	53
	Q2E100L6D	Alüminyum	1,5	2,0	940	4	15,3	4,5	-	2,4	-	2,7	79,8	79,3	76,4	0,71	0,00570	26	56
	Q2E112M6C	Alüminyum	2,2	3,0	950	5,4	22,1	5,0	-	2,3	-	2,7	81,8	81,2	78,3	0,71	0,00916	31	58
380/660V	Q2E132M6A	Alüminyum	3,0	4,0	945	7,3	29,8	1,7	5,2	1,0	3,0	3,0	83,3	82,3	79,4	0,64	0,02057	53	62
	Q2E132M6B	Alüminyum	4,0	5,5	965	10,5	39,8	1,8	5,3	0,6	1,9	2,3	84,6	83,5	80,7	0,65	0,02070	54	62
	Q2E132M6C	Alüminyum	5,5	7,5	945	13,1	54,7	1,6	4,9	0,8	2,4	2,6	86,1	85,7	83,9	0,76	0,02709	67	62
	Q2E160L6B	Alüminyum	7,5	10,0	965	18,7	74,6	2,0	6,0	1,1	3,2	3,4	87,2	84,3	81,7	0,66	0,07040	94	63
	Q2E160L6C	Alüminyum	11,0	15,0	960	25,1	109,4	1,6	4,9	0,9	2,7	2,8	88,7	88,5	86,3	0,74	0,07040	95,5	63
	Q2E180L6A	Alüminyum	15,0	20,0	960	31,8	147,7	2,0	5,9	0,6	1,8	2,6	89,7	89,5	87,3	0,80	0,18369	115	64
	Q2E200L6B	Alüminyum	18,5	25,0	970	38,0	182,2	1,8	5,5	0,5	1,6	2,4	90,4	90,2	89,6	0,83	0,27088	155	64
	Q2E200L6C	Alüminyum	22,0	30,0	970	45,6	216,6	1,8	5,5	0,5	1,6	2,4	90,9	90,7	90,1	0,83	0,31281	165	64
	Q2E225M6B	Alüminyum	30,0	40,0	980	60,9	287,6	1,8	5,4	0,5	1,6	2,3	91,7	91,6	90,7	0,82	0,49334	221	65

*** IEC 60034-2-1'e göre belirlenen verim değerleri**
**** Ses seviyesi ölçümleri motordan 1 metre uzaklıktan alınır.**
**** Tolerans + 3 dBA**

*** According to IEC 60034-2-1**
**** The sound pressure measurement are taken 1 m away from the motor.**
**** Tolerance + 3 dBA**

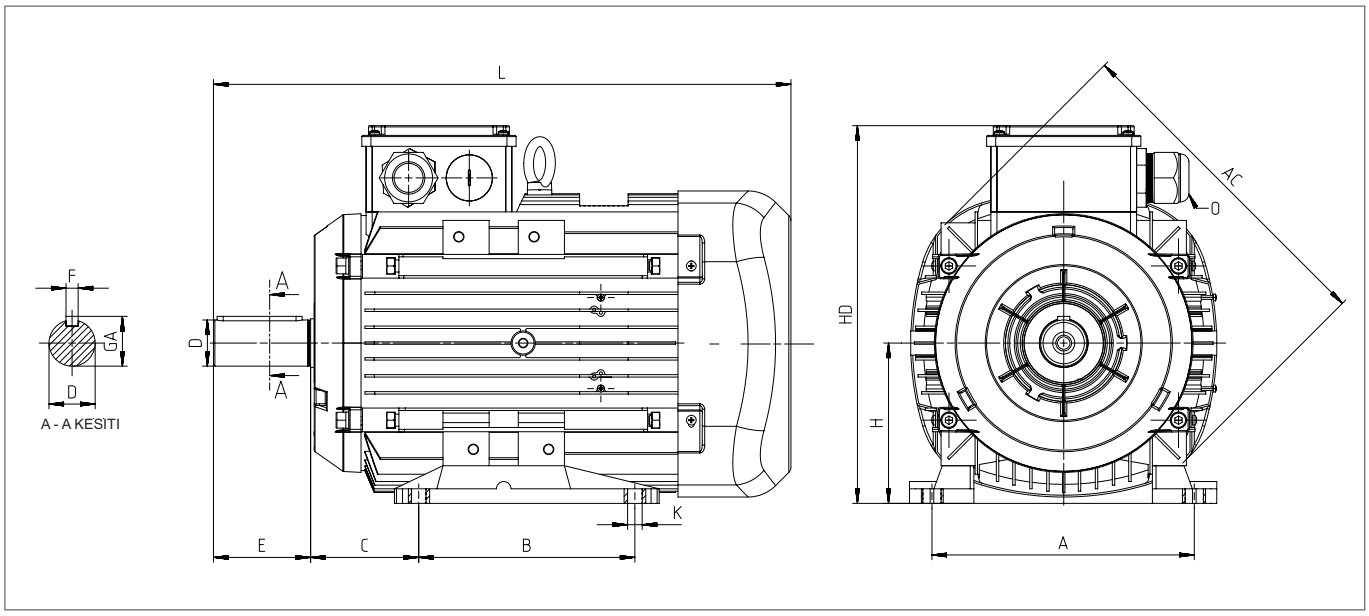
ELEKTRİKSEL ÖZELLİKLER - 50 Hz / ELECTRICAL CHARACTERISTICS AT 50 Hz

	Motor Tipi / Motor Type	Gövde Tipi / Housing Type	Nominal / Rated Values: Güç / Power kW	Güç / Power HP	Devir / Speed d/d	Akım / Current A	Moment / Torque Nm	Kalkıştaki Değerler / Starting Values: Akım / Current I_A / A_N 人	Akım / Current I_A / A_N Δ	Moment / Torque M_A / M_N 人	Moment / Torque M_A / M_N Δ	Devrilme Momenti Oranı / Breakedown Torque Ratio Mk/Mn	Verim * / Efficiency* η% 4/4	Verim * / Efficiency* η% 3/4	Verim * / Efficiency* η% 2/4	Cosϕ 4/4	J kgm²	Ağırlık (B3) / Weight (B3) kg	Ses Seviyesi dBA** / Sound Pressure Level dBA**
	2kutup3000d/d																		
220/380V	Q2E71M2DE	Alüminyum	0,75	1,0	2870	1,7	2,4	8,8	-	5,0	-	5,2	77,4	77,5	75,9	0,77	0,00110	11	56
220/380V	Q2E80M2DE	Alüminyum	1,5	2,0	2875	3,0	5,0	8,1	-	4,0	-	4,3	81,5	82,0	80,9	0,76	0,00150	13	58
220/380V	Q2E90L2DE	Alüminyum	3,0	4,0	2880	6,1	9,9	8,3	-	4,0	-	4,5	84,6	84,1	80,8	0,75	0,00182	18	62
380/660V	Q2E100L2DE	Alüminyum	4,0	5,5	2900	7,9	13,3	3,0	9,3	1,4	4,3	5,2	85,9	86,0	84,1	0,77	0,00335	27	64
380/660V	Q2E112M2CE	Alüminyum	5,5	7,5	2910	9,1	17,9	3,1	9,5	1,4	4,2	5,0	86,3	86,5	84,7	0,87	0,00489	31	67
380/660V	Q2E132M2AE	Alüminyum	11,0	15,0	2923	13,6	24,5	2,9	9,0	1,2	3,6	4,0	88,3	87,9	86,1	0,89	0,01596	53	70
380/660V	Q2E160L2DE	Alüminyum	22,0	30,0	2943	31,4	60,0	2,6	8,2	1,1	3,3	3,9	91,4	91,8	91,2	0,92	0,04075	92	71
380/660V	Q2EP250M2C	Pik	75,0	100,0	2975	125,4	241,1	2,5	7,5	0,8	2,8	3,3	93,8	93,7	92,5	0,92	0,54033	576	84
380/660V	Q2EP280M2D	Pik	110,0	150,0	2980	191,0	352,4	2,6	7,7	0,9	2,9	3,4	94,3	94,3	93,6	0,88	0,74111	640	84
	4kutup1500d/d																		
220/380V	Q2E80M4DE	Alüminyum	1,1	1,5	1438	1,9	4,9	5,5	-	3,2	-	3,5	79,9	79,4	76,3	0,72	0,00268	12,5	49
220/380V	Q2E90L4DE	Alüminyum	2,2	3,0	1440	4,8	14,5	7,5	-	3,5	-	4,0	84,3	83,5	80,6	0,70	0,00365	18	54
380/660V	Q2E112M4DE	Alüminyum	5,5	7,5	1458	8,5	26,2	2,8	8,6	1,1	3,2	4,3	86,7	86,7	85,1	0,77	0,01123	34	58
380/660V	Q2EP250M4E	Pik	75,0	100,0	1485	134,2	485,7	2,6	7,8	0,8	2,9	3,4	94,0	93,9	93,2	0,86	1,06114	624	73
380/660V	Q2EP280M4D	Pik	110,0	150,0	1485	200,3	714,0	2,8	7,9	0,8	2,9	3,4	94,5	94,3	93,1	0,84	1,25586	654	73

*** IEC 60034-2-1'e göre belirlenen verim değerleri**
**** Ses seviyesi ölçümleri motordan 1 metre uzaklıktan alınır.**
**** Tolerans + 3 dBA**

*** According to IEC 60034-2-1**
**** The sound pressure measurement are taken 1 m away from the motor.**
**** Tolerance + 3 dBA**

BOYUTLAR / DIMENSIONS - B3



				Ana Boyutlar Main Dimensions			Ayaklı Motorlar / Foot Mounted Motors						Mil / Shaft				Rulman / Bearing		Keçe / Seal	
Güç Power (kW)	Kutup Sayısı Number of Poles	Motor Tipi Motor Type	Gövde Tipi Housing Type	AC	L	O	B	A	H	HD	K	C	D(1)	E	GA	F(2)	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non Drive Side	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non Drive Side
0,25	4	Q2E71M4B	Alüminyum	138	252,5	1*M20	90	112	71	190	7	45	14	30	16	5	6202-2Z	6202-2Z	15*24*5	15*24*5
0,37	2	Q2E71M2C	Alüminyum	138	252,5	1*M20	90	112	71	190	7	45	14	30	16	5	6202-2Z	6202-2Z	15*24*5	15*24*5
	4	Q2E71M4B	Alüminyum	138	252,5	1*M20	90	112	71	190	7	45	14	30	16	5	6202-2Z	6202-2Z	15*24*5	15*24*5
0,55	2	Q2E71M2D	Alüminyum	138	252,5	1*M20	90	112	71	190	7	45	14	30	16	5	6202-2Z	6202-2Z	15*24*5	15*24*5
	4	Q2E80M4B	Alüminyum	158	283,5	1*M20	100	125	80	195	10	50	19	40	21,5	6	6204-2Z	6204-2Z	20*30*7	20*30*7
0,75	2	Q2E71M2DE	Alüminyum	138	252,5	1*M20	90	112	71	190	7	45	14	30	16,0	5	6202-2Z	6202-2Z	15*24*5	15*24*5
	2	Q2E80M2B	Alüminyum	158	283,5	1*M20	100	125	80	195	10	50	19	40	21,5	6	6204-2Z	6204-2Z	20*30*7	20*30*7
	4	Q2E80M4D	Alüminyum	158	283,5	1*M20	100	125	80	195	10	50	19	40	21,5	6	6204-2Z	6204-2Z	20*30*7	20*30*7
	6	Q2E90L6C	Alüminyum	193	316,5	1*M25	100	140	90	222	10	56	24	50	27	8	6305-2Z	6205-2Z	25*40*7	25*40*7
1,1	2	Q2E80M2D	Alüminyum	158	283,5	1*M20	100	125	80	195	10	50	19	40	21,5	6	6204-2Z	6204-2Z	20*30*7	20*30*7
	4	Q2E80M4DE	Alüminyum	158	283,5	1*M20	100	125	80	195	10	50	19	40	21,5	6	6204-2Z	6204-2Z	20*30*7	20*30*7
	4	Q2E90L4C	Alüminyum	193	316,5	1*M25	100	140	90	222	10	56	24	50	27	8	6305-2Z	6205-2Z	25*40*7	25*40*7
	6	Q2E90L6D	Alüminyum	193	344,5	1*M25	125	140	90	222	10	56	24	50	27	8	6305-2Z	6205-2Z	25*40*7	25*40*7
1,5	2	Q2E80M2DE	Alüminyum	158	283,5	1*M20	100	125	80	195	10	50	19	40	21,5	6	6204-2Z	6204-2Z	20*30*7	20*30*7
	2	Q2E90L2C	Alüminyum	193	316,5	1*M25	100	140	90	222	10	56	24	50	27	8	6305-2Z	6205-2Z	25*40*7	25*40*7
	4	Q2E90L4D	Alüminyum	193	316,5	1*M25	125	140	90	222	10	56	24	50	27	8	6305-2Z	6205-2Z	25*40*7	25*40*7
	6	Q2E100L6D	Alüminyum	217	352,0	1*M25	140	160	100	241	12	63	28	60	31	8	6306-2Z	6205-2Z	30*47*7	25*40*7
2,2	2	Q2E90L2D	Alüminyum	193	316,5	1*M25	125	140	90	222	10	56	24	50	27	8	6305-2Z	6205-2Z	25*40*7	25*40*7
	4	Q2E90L4DE	Alüminyum	193	344,5	1*M25	125	140	90	222	10	56	24	50	27	8	6305-2Z	6205-2Z	25*40*7	25*40*7
	4	Q2E100L4C	Alüminyum	217	352,0	1*M25	140	160	100	241	12	63	28	60	31	8	6306-2Z	6205-2Z	30*47*7	25*40*7
	6	Q2E112M6C	Alüminyum	232	395,5	2*M25	140	190	112	261	12	70	28	60	31	8	6306-2Z	6206-2Z	30*47*7	30*47*7
3,0	2	Q2E90L2DE	Alüminyum	193	316,5	1*M25	125	140	90	222	10	56	24	50	27	8	6305-2Z	6205-2Z	25*40*7	25*40*7
	2	Q2E100L2C	Alüminyum	217	352,0	1*M25	140	160	100	241	12	63	28	60	31	8	6306-2Z	6205-2Z	30*47*7	25*40*7
	4	Q2E100L4D	Alüminyum	217	352,0	1*M25	140	160	100	241	12	63	28	60	31	8	6306-2Z	6205-2Z	30*47*7	25*40*7
	6	Q2E132M6A	Alüminyum	279	475,5	2*M32	140	216	132	314	12	89	38	80	41	10	6208-2Z	6208-2Z	40*62*10	40*62*10

BOYUTLAR / DIMENSIONS - B3

				Ana Boyutlar Main Dimensions			Ayaklı Motorlar / Foot Mounted Motors						Mil / Shaft				Rulman / Bearing		Keçe / Seal	
Güç Power (kW)	Kutup Sayısı Number of Poles	Motor Tipi Motor Type	Gövde Tipi Housing Type	AC	L	O	B	A	H	HD	K	C	D(1)	E	GA	F(2)	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non Drive Side	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non Drive Side
4,0	2	Q2E100L2DE	Alüminyum	217	352,0	1*M25	140	160	100	241	12	63	28	60	31	8	6306-2Z	6205-2Z	30*47*7	25*40*7
	2	Q2E112M2C	Alüminyum	232	395,5	2*M25	140	190	112	261	12	70	28	60	31	8	6306-2Z	6206-2Z	30*47*7	30*47*7
	4	Q2E112M4C	Alüminyum	232	395,5	2*M25	140	190	112	261	12	70	28	60	31	8	6306-2Z	6206-2Z	30*47*7	30*47*7
	6	Q2E132M6B	Alüminyum	279	475,5	2*M32	178	216	132	314	12	89	38	80	41	10	6208-2Z	6208-2Z	40*62*10	40*62*10
5,5	2	Q2E112M2CE	Alüminyum	232	395,5	2*M25	140	190	112	261	12	70	28	60	31	8	6306-2Z	6206-2Z	30*47*7	30*47*7
	4	Q2E112M4D	Alüminyum	232	395,5	2*M25	140	190	112	261	12	70	28	60	31	8	6306-2Z	6206-2Z	30*47*7	30*47*7
	2	Q2E132S2C	Alüminyum	279	440,5	2*M32	140	216	132	314	12	89	38	80	41	10	6208-2Z	6208-2Z	40*62*10	40*62*10
	4	Q2E132M4B	Alüminyum	279	475,5	2*M32	140	216	132	314	12	89	38	80	41	10	6208-2Z	6208-2Z	40*62*10	40*62*10
	6	Q2E132M6C	Alüminyum	279	475,5	2*M32	178	216	132	314	12	89	38	80	41	10	6208-2Z	6208-2Z	40*62*10	40*62*10
7,5	2	Q2E132M2A	Alüminyum	279	475,5	2*M32	140	216	132	314	12	89	38	80	41	10	6208-2Z	6208-2Z	40*62*10	40*62*10
	4	Q2E132M4C	Alüminyum	279	475,5	2*M32	178	216	132	314	12	89	38	80	41	10	6208-2Z	6208-2Z	40*62*10	40*62*10
	6	Q2E160M6B	Alüminyum	302	576,0	2*M32	210	254	160	360	15	108	42	110	45	12	6309-2Z	6209-2Z	45*72*10	45*72*10
11,0	2	Q2E132M2AE	Alüminyum	279	475,5	2*M32	140	216	132	314	12	89	38	80	41	10	6208-2Z	6208-2Z	40*62*10	40*62*10
	2	Q2E160M2B	Alüminyum	302	576,0	2*M32	210	254	160	360	15	108	42	110	45	12	6309-2Z	6209-2Z	45*72*10	45*72*10
	4	Q2E160M4B	Alüminyum	302	576,0	2*M32	210	254	160	360	15	108	42	110	45	12	6309-2Z	6209-2Z	45*72*10	45*72*10
	6	Q2E160L6B	Alüminyum	302	576,0	2*M32	254	254	160	360	15	108	42	110	45	12	6309-2Z	6209-2Z	45*72*10	45*72*10
15,0	2	Q2E160L2A	Alüminyum	302	576,0	2*M32	210	254	160	360	15	108	42	110	45	12	6309-2Z	6209-2Z	45*72*10	45*72*10
	4	Q2E160L4A	Alüminyum	302	576,0	2*M32	254	254	160	360	15	108	42	110	45	12	6309-2Z	6209-2Z	45*72*10	45*72*10
	6	Q2E180L6A	Alüminyum	370	629,0	2*M40	279	279	180	428	15	121	48	110	51,5	14	6310-2Z	6310-2Z	50*80*10	50*80*10
18,5	2	Q2E160L2C	Alüminyum	302	576,0	2*M32	254	254	160	360	15	108	42	110	45	12	6309-2Z	6209-2Z	45*72*10	45*72*10
	4	Q2E180M4B	Alüminyum	370	629,0	2*M40	241	279	180	428	15	121	48	110	51,5	14	6310-2Z	6310-2Z	50*80*10	50*80*10
	6	Q2E200L6B	Alüminyum	415	665,0	2*M50	305	318	200	461	19	133	55	110	59	16	6312-2Z	6312-2Z	60*90*10	60*90*10
22,0	2	Q2E160L2D	Alüminyum	302	576,0	2*M32	210	254	160	360	15	108	42	110	45	12	6309-2Z	6209-2Z	45*72*10	45*72*10
	2	Q2E180M2A	Alüminyum	370	629,0	2*M40	241	279	180	428	15	121	48	110	51,5	14	6310-2Z	6310-2Z	50*80*10	50*80*10
	4	Q2E180L4B	Alüminyum	370	629,0	2*M40	279	279	180	428	15	121	48	110	51,5	14	6310-2Z	6310-2Z	50*80*10	50*80*10
	6	Q2E200L6C	Alüminyum	415	665,0	2*M50	305	318	200	461	19	133	55	110	59	16	6312-2Z	6312-2Z	60*90*10	60*90*10
30,0	2	Q2E200L2B	Alüminyum	415	665,0	2*M50	305	318	200	461	19	133	55	110	59	16	6312-2Z	6312-2Z	60*90*10	60*90*10
	4	Q2E200L4D	Alüminyum	415	665,0	2*M50	305	318	200	461	19	133	55	110	59	16	6312-2Z	6312-2Z	60*90*10	60*90*10
	6	Q2E225M6B	Alüminyum	456	765,0	2*M50	311	356	225	504	19	149	60	140	64	18	6313-2Z	6313-2Z	65*100*13	65*100*13
37,0	2	Q2E200L2C	Alüminyum	415	665,0	2*M50	305	318	200	461	19	133	55	110	59	16	6312-2Z	6312-2Z	60*90*10	60*90*10
	4	Q2E225M4C	Alüminyum	456	765,0	2*M50	286	356	225	504	19	149	60	140	64	18	6313-2Z	6313-2Z	65*100*13	65*100*13
45,0	2	Q2E225M2B	Alüminyum	456	735,0	2*M50	311	356	225	504	19	149	55	110	59	16	6313-2Z	6313-2Z	65*100*13	65*100*13
	4	Q2E225M4D	Alüminyum	456	765,0	2*M50	311	356	225	504	19	149	60	140	64	18	6313-2Z	6313-2Z	65*100*13	65*100*13
55,0	2	Q2EP250M2B	Pik	527	886,0	2*M50	349	406	250	615	24	168	60	140	64	18	6316	6316	80*100*10	80*100*10
	4	Q2EP250M4D	Pik	527	886,0	2*M50	349	406	250	615	24	168	65	140	69	18	6316	6316	80*100*10	80*100*10
75,0	2	Q2EP250M2C	Pik	527	886,0	2*M50	349	406	250	615	24	168	60	140	64	18	6316	6316	80*100*10	80*100*10
	2	Q2EP280M2B	Pik	527	1025,0	2*M50	419	457	280	647	24	190	65	140	69	18	6316	6316	80*100*10	80*100*10
	4	Q2EP250M4E	Pik	527	886,0	2*M50	349	406	250	615	24	168	65	140	69	18	6316	6316	80*100*10	80*100*10
	4	Q2EP280M4B	Pik	527	1025,0	2*M50	419	457	280	647	24	190	75	140	80	20	6316	6316	80*100*10	80*100*10
90,0	2	Q2EP280M2C	Pik	527	1025,0	2*M50	419	457	280	647	24	190	65	140	69	18	6316	6316	80*100*10	80*100*10
	4	Q2EP280M4C	Pik	527	1025,0	2*M50	419	457	280	647	24	190	75	140	80	20	6316	6316	80*100*10	80*100*10
110,0	2	Q2EP280M2D	Pik	527	1025,0	2*M50	419	457	280	647	24	190	65	140	69	18	6316	6316	80*100*10	80*100*10
	4	Q2EP280M4D	Pik	527	1025,0	2*M50	419	457	280	647	24	190	75	140	80	20	6316	6316	80*100*10	80*100*10

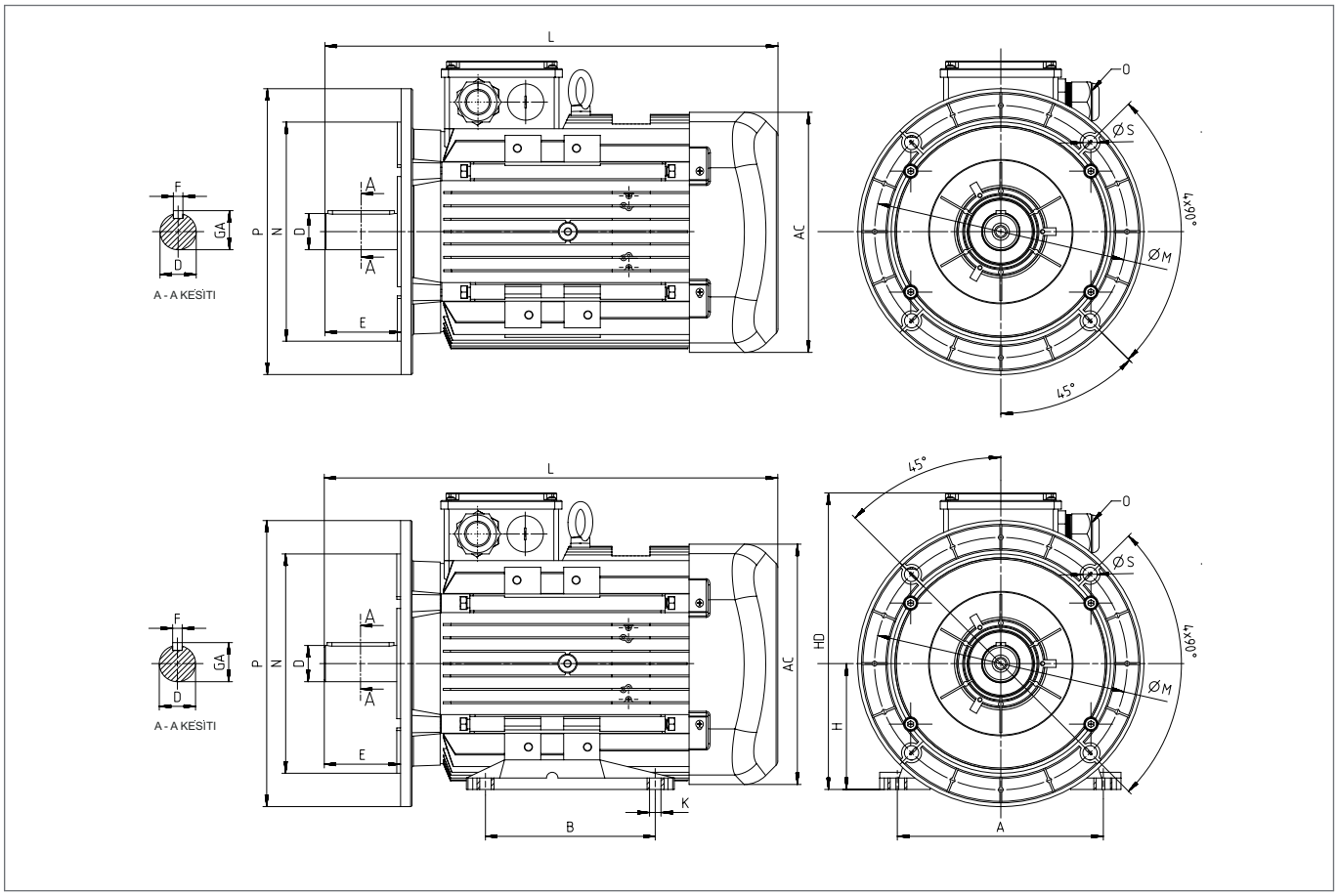
BOYUTLAR / DIMENSIONS - B3

				Ana Boyutlar Main Dimensions			Ayaklı Motorlar / Foot Mounted Motors						Mil / Shaft				Rulman / Bearing		Keçe / Seal	
Güç Power (kW)	Kutup Sayısı Number of Poles	Motor Tipi Motor Type	Gövde Tipi Housing Type	AC	L	O	B	A	H	HD	K	C	D(1)	E	GA	F(2)	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non Drive Side	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non Drive Side
110,0	2	Q2EP315S2C	Pik	630	1180,0	2*M63	406	508	315	845	28	216	65	140	69	18	6317	6317	85*105*5.5	85*105*5.5
	4	Q2EP315S4C	Pik	630	1210,0	2*M63	406	508	315	845	28	216	80	170	85	22	6319	6319	95*115*5.5	95*115*5.5
132,0	2	Q2EP315M2C	Pik	630	1290,0	2*M63	457	508	315	845	28	216	65	140	69	18	6317	6317	85*105*5.5	85*105*5.5
	4	Q2EP315M4C	Pik	630	1320,0	2*M63	457	508	315	845	28	216	80	170	85	22	6319	6319	95*115*5.5	95*115*5.5
160,0	2	Q2EP315L2C	Pik	630	1290,0	2*M63	508	508	315	845	28	216	65	140	69	18	6317	6317	85*105*5.5	85*105*5.5
	4	Q2EP315L4C	Pik	630	1320,0	2*M63	508	508	315	845	28	216	80	170	85	22	6319	6319	95*115*5.5	95*115*5.5
200,0	2	Q2EP315L2D	Pik	630	1290,0	2*M63	508	508	315	845	28	216	65	140	69	18	6317	6317	85*105*5.5	85*105*5.5
	4	Q2EP315L4D	Pik	630	1320,0	2*M63	508	508	315	845	28	216	80	170	85	22	6319	6319	95*115*5.5	95*115*5.5
250,0	2	Q2EP355M2C	Pik	710	1486,0	4*M63	560	610	355	956	28	254	75	140	80	20	6317	6317	85*105*5.5	85*105*5.5
	4	Q2EP355M4C	Pik	710	1517,0	4*M63	560	610	355	956	28	254	95	170	100	25	6322	6322	110*130*5.5	110*130*5.5
315,0	2	Q2EP355L2C	Pik	710	1486,0	4*M63	630	610	355	956	28	254	75	140	80	20	6317	6317	85*105*5.5	85*105*5.5
	4	Q2EP355L4C	Pik	710	1517,0	4*M63	630	610	355	956	28	254	95	170	100	25	6322	6322	110*130*5.5	110*130*5.5
355,0	2	Q2EP355L2D	Pik	710	1486,0	4*M63	630	610	355	956	28	254	75	140	80	20	6317	6317	85*105*5.5	85*105*5.5
	4	Q2EP355L4D	Pik	710	1517,0	4*M63	630	610	355	956	28	254	95	170	100	25	6322	6322	110*130*5.5	110*130*5.5

(1) Toleranslar 28 mm'ye kadar DIN EN 50347 "j6", 28 mm ve üzeri "k6"
(2) DIN 6885'e göre

(1) Tolerance DIN EN 50347 "j6" up to 28 mm "k6" above 28 mm
(2) According to DIN 6885

BOYUTLAR / DIMENSIONS - B5, B35



				Ana Boyutlar Main Dimesions			Ayaklı Motorlar Foot Mounted Motors					Mil / Shaft				Rulman / Bearing		Keçe / Seal		Flanş / Flange (FA) (B5)				
Güç Power (kW)	Kutup Sayısı Number of Poles	Motor Tipi Motor Type	Gövde Tipi Housing Type	AC	L	O	B	A	H	HD	K	D (1)	E	GA	F (2)	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non Drive Side	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non Drive Side	P	N (3)	M	R	S
0,25	4	Q2E71M4B	Alüminyum	138	252,5	1*M20	90	112	71	190	7	14	30	16	5	6202-2Z	6202-2Z	15*24*5	15*24*5	160	110	130	0	10
0,37	2	Q2E71M2C	Alüminyum	138	252,5	1*M20	90	112	71	190	7	14	30	16	5	6202-2Z	6202-2Z	15*24*5	15*24*5	160	110	130	0	10
	4	Q2E71M4B	Alüminyum	138	252,5	1*M20	90	112	71	190	7	14	30	16	5	6202-2Z	6202-2Z	15*24*5	15*24*5	160	110	130	0	10
0,55	2	Q2E71M2D	Alüminyum	138	252,5	1*M20	90	112	71	190	7	14	30	16	5	6202-2Z	6202-2Z	15*24*5	15*24*5	160	110	130	0	10
	4	Q2E80M4B	Alüminyum	158	283,5	1*M20	100	125	80	195	10	19	40	21,5	6	6204-2Z	6204-2Z	20*30*7	20*30*7	200	130	165	0	12
0,75	2	Q2E71M2DE	Alüminyum	138	252,5	1*M20	90	112	71	190	7	14	30	16,0	5	6202-2Z	6202-2Z	15*24*5	15*24*5	160	110	130	0	10
	2	Q2E80M2B	Alüminyum	158	283,5	1*M20	100	125	80	195	10	19	40	21,5	6	6204-2Z	6204-2Z	20*30*7	20*30*7	200	130	165	0	12
	4	Q2E80M4D	Alüminyum	158	283,5	1*M20	100	125	80	195	10	19	40	21,5	6	6204-2Z	6204-2Z	20*30*7	20*30*7	200	130	165	0	12
	6	Q2E90L6C	Alüminyum	193	316,5	1*M25	100	140	90	222	10	24	50	27	8	6305-2Z	6205-2Z	25*40*7	25*40*7	200	130	165	0	12
1,1	2	Q2E80M2D	Alüminyum	158	283,5	1*M20	100	125	80	195	10	19	40	21,5	6	6204-2Z	6204-2Z	20*30*7	20*30*7	200	130	165	0	12
	4	Q2E80M4DE	Alüminyum	158	283,5	1*M20	100	125	80	195	10	19	40	21,5	6	6204-2Z	6204-2Z	20*30*7	20*30*7	200	130	165	0	12
	4	Q2E90L4C	Alüminyum	193	316,5	1*M25	100	140	90	222	10	24	50	27	8	6305-2Z	6205-2Z	25*40*7	25*40*7	200	130	165	0	12
	6	Q2E90L6D	Alüminyum	193	344,5	1*M25	125	140	90	222	10	24	50	27	8	6305-2Z	6205-2Z	25*40*7	25*40*7	200	130	165	0	12
1,5	2	Q2E80M2DE	Alüminyum	158	283,5	1*M20	100	125	80	195	10	19	40	21,5	6	6204-2Z	6204-2Z	20*30*7	20*30*7	200	130	165	0	12
	2	Q2E90L2C	Alüminyum	193	316,5	1*M25	100	140	90	222	10	24	50	27	8	6305-2Z	6205-2Z	25*40*7	25*40*7	200	130	165	0	12
	4	Q2E90L4D	Alüminyum	193	316,5	1*M25	125	140	90	222	10	24	50	27	8	6305-2Z	6205-2Z	25*40*7	25*40*7	200	130	165	0	12
	6	Q2E100L6D	Alüminyum	217	352,0	1*M25	140	160	100	241	12	28	60	31	8	6306-2Z	6205-2Z	30*47*7	25*40*7	250	180	215	0	15
2,2	2	Q2E90L2D	Alüminyum	193	316,5	1*M25	125	140	90	222	10	24	50	27	8	6305-2Z	6205-2Z	25*40*7	25*40*7	200	130	165	0	12
	4	Q2E90L4DE	Alüminyum	193	344,5	1*M25	125	140	90	222	10	24	50	27	8	6305-2Z	6205-2Z	25*40*7	25*40*7	200	130	165	0	12
	4	Q2E100L4C	Alüminyum	217	352,0	1*M25	140	160	100	241	12	28	60	31	8	6306-2Z	6205-2Z	30*47*7	25*40*7	250	180	215	0	15
	6	Q2E112M6C	Alüminyum	232	395,5	2*M25	140	190	112	261	12	28	60	31	8	6306-2Z	6206-2Z	30*47*7	30*47*7	250	180	215	0	15
3,0	2	Q2E90L2DE	Alüminyum	193	316,5	1*M25	125	140	90	222	10	24	50	27	8	6305-2Z	6205-2Z	25*40*7	25*40*7	200	130	165	0	12
	2	Q2E100L2C	Alüminyum	217	352,0	1*M25	140	160	100	241	12	28	60	31	8	6306-2Z	6205-2Z	30*47*7	25*40*7	250	180	215	0	15
	4	Q2E100L4D	Alüminyum	217	352,0	1*M25	140	160	100	241	12	28	60	31	8	6306-2Z	6205-2Z	30*47*7	25*40*7	250	180	215	0	15
	6	Q2E132M6A	Alüminyum	279	475,5	2*M32	140	216	132	314	12	38	80	41	10	6208-2Z	6208-2Z	40*62*10	40*62*10	300	230	265	0	15

BOYUTLAR / DIMENSIONS - B5, B35

				Ana Boyutlar Main Dimesions			Ayaklı Motorlar Foot Mounted Motors					Mil / Shaft				Rulman / Bearing		Keçe / Seal		Flanş / Flange (FA) (B5)				
Güç Power (kW)	Kutup Sayısı Number of Poles	Motor Tipi Motor Type	Gövde Tipi Housing Type	AC	L	O	B	A	H	HD	K	D(1)	E	GA	F(2)	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non Drive Side	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non Drive Side	P	N(3)	M	R	S
	2	Q2E100L2DE	Alüminyum	217	352,0	1*M25	140	160	100	241	12	28	60	31	8	6306-2Z	6205-2Z	30*47*7	25*40*7	250	180	215	0	15
	2	Q2E112M2C	Alüminyum	232	395,5	2*M25	140	190	112	261	12	28	60	31	8	6306-2Z	6206-2Z	30*47*7	30*47*7	250	180	215	0	15
4,0	4	Q2E112M4C	Alüminyum	232	395,5	2*M25	140	190	112	261	12	28	60	31	8	6306-2Z	6206-2Z	30*47*7	30*47*7	250	180	215	0	15
	6	Q2E132M6B	Alüminyum	279	475,5	2*M32	178	216	132	314	12	38	80	41	10	6208-2Z	6208-2Z	40*62*10	40*62*10	300	230	265	0	15
	2	Q2E112M2CE	Alüminyum	232	395,5	2*M25	140	190	112	261	12	28	60	31	8	6306-2Z	6206-2Z	30*47*7	30*47*7	250	180	215	0	15
	4	Q2E112M4D	Alüminyum	232	395,5	2*M25	140	190	112	261	12	28	60	31	8	6306-2Z	6206-2Z	30*47*7	30*47*7	250	180	215	0	15
5,5	2	Q2E132S2C	Alüminyum	279	440,5	2*M32	140	216	132	314	12	38	80	41	10	6208-2Z	6208-2Z	40*62*10	40*62*10	300	230	265	0	15
	4	Q2E132M4B	Alüminyum	279	475,5	2*M32	140	216	132	314	12	38	80	41	10	6208-2Z	6208-2Z	40*62*10	40*62*10	300	230	265	0	15
	6	Q2E132M6C	Alüminyum	279	475,5	2*M32	178	216	132	314	12	38	80	41	10	6208-2Z	6208-2Z	40*62*10	40*62*10	300	230	265	0	15
	2	Q2E132M2A	Alüminyum	279	475,5	2*M32	140	216	132	314	12	38	80	41	10	6208-2Z	6208-2Z	40*62*10	40*62*10	300	230	265	0	15
7,5	4	Q2E132M4C	Alüminyum	279	475,5	2*M32	178	216	132	314	12	38	80	41	10	6208-2Z	6208-2Z	40*62*10	40*62*10	300	230	265	0	15
	6	Q2E160M6B	Alüminyum	302	576,0	2*M32	210	254	160	360	15	42	110	45	12	6309-2Z	6209-2Z	45*72*10	45*72*10	350	250	300	0	19
	2	Q2E132M2AE	Alüminyum	279	475,5	2*M32	140	216	132	314	12	38	80	41	10	6208-2Z	6208-2Z	40*62*10	40*62*10	300	230	265	0	15
	2	Q2E160M2B	Alüminyum	302	576,0	2*M32	210	254	160	360	15	42	110	45	12	6309-2Z	6209-2Z	45*72*10	45*72*10	350	250	300	0	19
11,0	4	Q2E160M4B	Alüminyum	302	576,0	2*M32	210	254	160	360	15	42	110	45	12	6309-2Z	6209-2Z	45*72*10	45*72*10	350	250	300	0	19
	6	Q2E160L6B	Alüminyum	302	576,0	2*M32	254	254	160	360	15	42	110	45	12	6309-2Z	6209-2Z	45*72*10	45*72*10	350	250	300	0	19
	2	Q2E160L2A	Alüminyum	302	576,0	2*M32	210	254	160	360	15	42	110	45	12	6309-2Z	6209-2Z	45*72*10	45*72*10	350	250	300	0	19
15,0	4	Q2E160L4A	Alüminyum	302	576,0	2*M32	254	254	160	360	15	42	110	45	12	6309-2Z	6209-2Z	45*72*10	45*72*10	350	250	300	0	19
	6	Q2E180L6A	Alüminyum	370	629,0	2*M40	279	279	180	428	15	48	110	51,5	14	6310-2Z	6310-2Z	50*80*10	50*80*10	350	250	300	0	19
	2	Q2E160L2C	Alüminyum	302	576,0	2*M32	254	254	160	360	15	42	110	45	12	6309-2Z	6209-2Z	45*72*10	45*72*10	350	250	300	0	19
18,5	4	Q2E180M4B	Alüminyum	370	629,0	2*M40	241	279	180	428	15	48	110	51,5	14	6310-2Z	6310-2Z	50*80*10	50*80*10	350	250	300	0	19
	6	Q2E200L6B	Alüminyum	415	665,0	2*M50	305	318	200	461	19	55	110	59	16	6312-2Z	6312-2Z	60*90*10	60*90*10	400	300	350	0	19
	2	Q2E160L2D	Alüminyum	302	576,0	2*M32	210	254	160	360	15	42	110	45	12	6309-2Z	6209-2Z	45*72*10	45*72*10	350	250	300	0	19
	2	Q2E180M2A	Alüminyum	370	629,0	2*M40	241	279	180	428	15	48	110	51,5	14	6310-2Z	6310-2Z	50*80*10	50*80*10	350	250	300	0	19
22,0	4	Q2E180L4B	Alüminyum	370	629,0	2*M40	279	279	180	428	15	48	110	51,5	14	6310-2Z	6310-2Z	50*80*10	50*80*10	350	250	300	0	19
	6	Q2E200L6C	Alüminyum	415	665,0	2*M50	305	318	200	461	19	55	110	59	16	6312-2Z	6312-2Z	60*90*10	60*90*10	400	300	350	0	19
	2	Q2E200L2B	Alüminyum	415	665,0	2*M50	305	318	200	461	19	55	110	59	16	6312-2Z	6312-2Z	60*90*10	60*90*10	400	300	350	0	19
30,0	4	Q2E200L4D	Alüminyum	415	665,0	2*M50	305	318	200	461	19	55	110	59	16	6312-2Z	6312-2Z	60*90*10	60*90*10	400	300	350	0	19
	6	Q2E225M6B	Alüminyum	456	765,0	2*M50	311	356	225	504	19	60	140	64	18	6313-2Z	6313-2Z	65*100*13	65*100*13	450	350	400	0	19
	2	Q2E200L2C	Alüminyum	415	665,0	2*M50	305	318	200	461	19	55	110	59	16	6312-2Z	6312-2Z	60*90*10	60*90*10	400	300	350	0	19
37,0	4	Q2E225M4C	Alüminyum	456	765,0	2*M50	286	356	225	504	19	60	140	64	18	6313-2Z	6313-2Z	65*100*13	65*100*13	450	350	400	0	19
	2	Q2E225M2B	Alüminyum	456	735,0	2*M50	311	356	225	504	19	55	110	59	16	6313-2Z	6313-2Z	65*100*13	65*100*13	450	350	400	0	19
45,0	4	Q2E225M4D	Alüminyum	456	765,0	2*M50	311	356	225	504	19	60	140	64	18	6313-2Z	6313-2Z	65*100*13	65*100*13	450	350	400	0	19
55,0	2	Q2EP250M2B	Pik	527	886,0	2*M50	349	406	250	615	24	60	140	64	18	6316	6316	80*100*10	80*100*10	550	450	500	0	19
	4	Q2EP250M4D	Pik	527	886,0	2*M50	349	406	250	615	24	65	140	69	18	6316	6316	80*100*10	80*100*10	550	450	500	0	19
	2	Q2EP250M2C	Pik	527	886,0	2*M50	349	406	250	615	24	60	140	64	18	6316	6316	80*100*10	80*100*10	550	450	500	0	19
75,0	2	Q2EP280M2B	Pik	527	1025,0	2*M50	419	457	280	647	24	65	140	69	18	6316	6316	80*100*10	80*100*10	550	450	500	0	19
	4	Q2EP250M4E	Pik	527	886,0	2*M50	349	406	250	615	24	65	140	69	18	6316	6316	80*100*10	80*100*10	550	450	500	0	19
	4	Q2EP280M4B	Pik	527	1025,0	2*M50	419	457	280	647	24	75	140	80	20	6316	6316	80*100*10	80*100*10	550	450	500	0	19
90,0	2	Q2EP280M2C	Pik	527	1025,0	2*M50	419	457	280	647	24	65	140	69	18	6316	6316	80*100*10	80*100*10	550	450	500	0	19
	4	Q2EP280M4C	Pik	527	1025,0	2*M50	419	457	280	647	24	75	140	80	20	6316	6316	80*100*10	80*100*10	550	450	500	0	19
110,0	2	Q2EP280M2D	Pik	527	1025,0	2*M50	419	457	280	647	24	65	140	69	18	6316	6316	80*100*10	80*100*10	550	450	500	0	19
	4	Q2EP280M4D	Pik	527	1025,0	2*M50	419	457	280	647	24	75	140	80	20	6316	6316	80*100*10	80*100*10	550	450	500	0	19

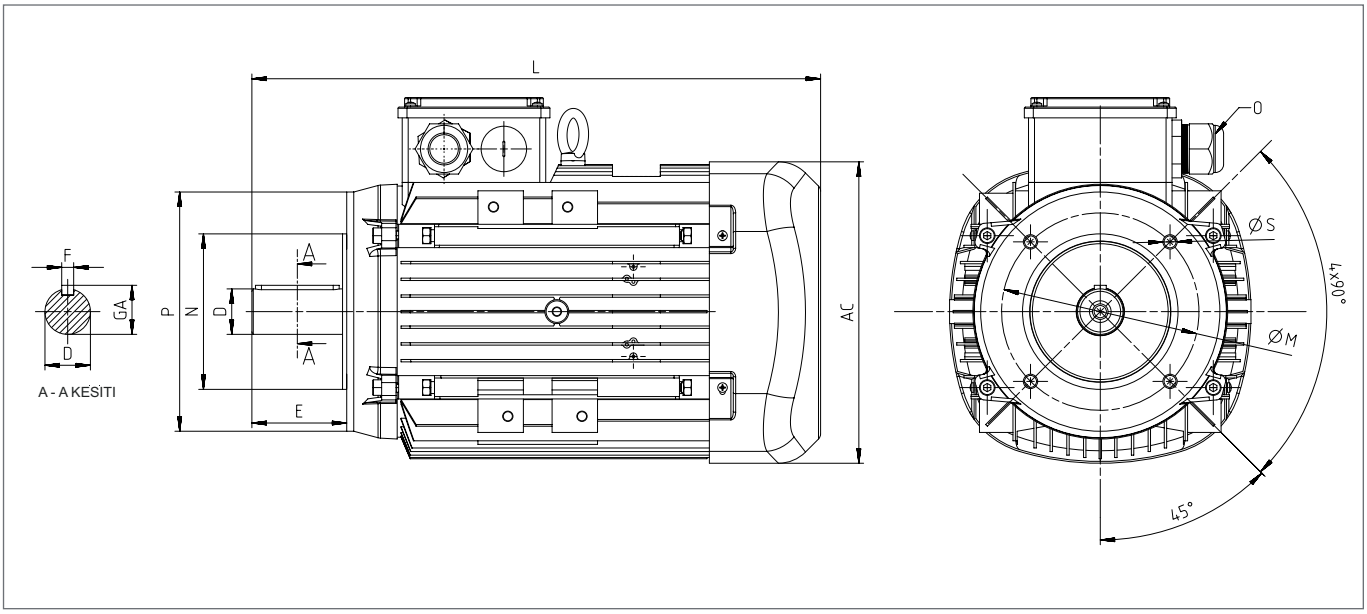
BOYUTLAR / DIMENSIONS - B5, B35

				Ana Boyutlar Main Dimensions			Ayaklı Motorlar / Foot Mounted Motors						Mil / Shaft				Rulman / Bearing		Keçe / Seal		Flanş / Flange (FA) (B5)				
Güç Power (kW)	Kutup Sayısı Number of Poles	Motor Tipi Motor Type	Gövde Tipi Housing Type	AC	L	O	B	A	H	HD	K	C	D(1)	E	GA	F(2)	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non Drive Side	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non Drive Side	P	N(3)	M	R	S
110,0	2	Q2EP315S2C	Pik	630	1180,0	2*M63	406	508	315	845	28	216	65	140	69	18	6317	6317	85*105*5.5	85*105*5.5	660	550	600	0	24
	4	Q2EP315S4C	Pik	630	1210,0	2*M63	406	508	315	845	28	216	80	170	85	22	6319	6319	95*115*5.5	95*115*5.5	660	550	600	0	24
132,0	2	Q2EP315M2C	Pik	630	1290,0	2*M63	457	508	315	845	28	216	65	140	69	18	6317	6317	85*105*5.5	85*105*5.5	660	550	600	0	24
	4	Q2EP315M4C	Pik	630	1320,0	2*M63	457	508	315	845	28	216	80	170	85	22	6319	6319	95*115*5.5	95*115*5.5	660	550	600	0	24
160,0	2	Q2EP315L2C	Pik	630	1290,0	2*M63	508	508	315	845	28	216	65	140	69	18	6317	6317	85*105*5.5	85*105*5.5	660	550	600	0	24
	4	Q2EP315L4C	Pik	630	1320,0	2*M63	508	508	315	845	28	216	80	170	85	22	6319	6319	95*115*5.5	95*115*5.5	660	550	600	0	24
200,0	2	Q2EP315L2D	Pik	630	1290,0	2*M63	508	508	315	845	28	216	65	140	69	18	6317	6317	85*105*5.5	85*105*5.5	660	550	600	0	24
	4	Q2EP315L4D	Pik	630	1320,0	2*M63	508	508	315	845	28	216	80	170	85	22	6319	6319	95*115*5.5	95*115*5.5	660	550	600	0	24
250,0	2	Q2EP355M2C	Pik	710	1486,0	4*M63	560	610	355	956	28	254	75	140	80	20	6317	6317	85*105*5.5	85*105*5.5	800	680	740	0	24
	4	Q2EP355M4C	Pik	710	1517,0	4*M63	560	610	355	956	28	254	95	170	100	25	6322	6322	110*130*5.5	110*130*5.5	800	680	740	0	24
315,0	2	Q2EP355L2C	Pik	710	1486,0	4*M63	630	610	355	956	28	254	75	140	80	20	6317	6317	85*105*5.5	85*105*5.5	800	680	740	0	24
	4	Q2EP355L4C	Pik	710	1517,0	4*M63	630	610	355	956	28	254	95	170	100	25	6322	6322	110*130*5.5	110*130*5.5	800	680	740	0	24
355,0	2	Q2EP355L2D	Pik	710	1486,0	4*M63	630	610	355	956	28	254	75	140	80	20	6317	6317	85*105*5.5	85*105*5.5	800	680	740	0	24
	4	Q2EP355L4D	Pik	710	1517,0	4*M63	630	610	355	956	28	254	95	170	100	25	6322	6322	110*130*5.5	110*130*5.5	800	680	740	0	24

(1) Toleranslar 28 mm'ye kadar DIN EN 50347 "j6", 28 mm ve üzeri "k6"
(2) DIN 6885'e göre
(3) Tolerans DIN EN 50347 "j6"

(1) Tolerance DIN EN 50347 "j6" up to 28 mm "k6" above 28 mm
(2) According to DIN 6885
(3) Tolerance DIN EN 50347 "j6"

BOYUTLAR / DIMENSIONS - B14a, B34a



				Ana Boyutlar Main Dimensions			Ayaklı Motorlar Foot Mounted Motors					Mil / Shaft				Rulman / Bearing		Keçe / Seal		Flanş / Flange (FC) (B14a)				
Güç Power (kW)	Kutup Sayısı Number of Poles	Motor Tipi Motor Type	Gövde Tipi Housing Type	AC	L	O	B	A	H	HD	K	D (1)	E	GA	F (2)	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non Drive Side	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non Drive Side	P	N (3)	M	R	S
0,25	4	Q2E71M4B	Alüminyum	138	252,5	1*M20	90	112	71	190	7	14	30	16	5	6202-2Z	6202-2Z	15*24*5	15*24*5	105	70	85	0	M6
0,37	2	Q2E71M2C	Alüminyum	138	252,5	1*M20	90	112	71	190	7	14	30	16	5	6202-2Z	6202-2Z	15*24*5	15*24*5	105	70	85	0	M6
	4	Q2E71M4B	Alüminyum	138	252,5	1*M20	90	112	71	190	7	14	30	16	5	6202-2Z	6202-2Z	15*24*5	15*24*5	105	70	85	0	M6
0,55	2	Q2E71M2D	Alüminyum	138	252,5	1*M20	90	112	71	190	7	14	30	16	5	6202-2Z	6202-2Z	15*24*5	15*24*5	105	70	85	0	M6
	4	Q2E80M4B	Alüminyum	158	283,5	1*M20	100	125	80	195	10	19	40	21,5	6	6204-2Z	6204-2Z	20*30*7	20*30*7	120	80	100	0	M6
0,75	2	Q2E71M2DE	Alüminyum	138	252,5	1*M20	90	112	71	190	7	14	30	16,0	5	6202-2Z	6202-2Z	15*24*5	15*24*5	105	70	85	0	M6
	2	Q2E80M2B	Alüminyum	158	283,5	1*M20	100	125	80	195	10	19	40	21,5	6	6204-2Z	6204-2Z	20*30*7	20*30*7	120	80	100	0	M6
	4	Q2E80M4D	Alüminyum	158	283,5	1*M20	100	125	80	195	10	19	40	21,5	6	6204-2Z	6204-2Z	20*30*7	20*30*7	120	80	100	0	M6
	6	Q2E90L6C	Alüminyum	193	316,5	1*M25	100	140	90	222	10	24	50	27	8	6305-2Z	6205-2Z	25*40*7	25*40*7	140	95	115	0	M8
1,1	2	Q2E80M2D	Alüminyum	158	283,5	1*M20	100	125	80	195	10	19	40	21,5	6	6204-2Z	6204-2Z	20*30*7	20*30*7	120	80	100	0	M6
	4	Q2E80M4DE	Alüminyum	158	283,5	1*M20	100	125	80	195	10	19	40	21,5	6	6204-2Z	6204-2Z	20*30*7	20*30*7	120	80	100	0	M6
	4	Q2E90L4C	Alüminyum	193	316,5	1*M25	100	140	90	222	10	24	50	27	8	6305-2Z	6205-2Z	25*40*7	25*40*7	140	95	115	0	M8
	6	Q2E90L6D	Alüminyum	193	344,5	1*M25	125	140	90	222	10	24	50	27	8	6305-2Z	6205-2Z	25*40*7	25*40*7	140	95	115	0	M8
1,5	2	Q2E80M2DE	Alüminyum	158	283,5	1*M20	100	125	80	195	10	19	40	21,5	6	6204-2Z	6204-2Z	20*30*7	20*30*7	120	80	100	0	M6
	2	Q2E90L2C	Alüminyum	193	316,5	1*M25	100	140	90	222	10	24	50	27	8	6305-2Z	6205-2Z	25*40*7	25*40*7	140	95	115	0	M8
	4	Q2E90L4D	Alüminyum	193	316,5	1*M25	125	140	90	222	10	24	50	27	8	6305-2Z	6205-2Z	25*40*7	25*40*7	140	95	115	0	M8
	6	Q2E100L6D	Alüminyum	217	352,0	1*M25	140	160	100	241	12	28	60	31	8	6306-2Z	6205-2Z	30*47*7	25*40*7	160	110	130	0	M8
2,2	2	Q2E90L2D	Alüminyum	193	316,5	1*M25	125	140	90	222	10	24	50	27	8	6305-2Z	6205-2Z	25*40*7	25*40*7	140	95	115	0	M8
	4	Q2E90L4DE	Alüminyum	193	344,5	1*M25	125	140	90	222	10	24	50	27	8	6305-2Z	6205-2Z	25*40*7	25*40*7	140	95	115	0	M8
	4	Q2E100L4C	Alüminyum	217	352,0	1*M25	140	160	100	241	12	28	60	31	8	6306-2Z	6205-2Z	30*47*7	25*40*7	160	110	130	0	M8
	6	Q2E112M6C	Alüminyum	232	395,5	2*M25	140	190	112	261	12	28	60	31	8	6306-2Z	6206-2Z	30*47*7	30*47*7	160	110	130	0	M8
3,0	2	Q2E90L2DE	Alüminyum	193	316,5	1*M25	125	140	90	222	10	24	50	27	8	6305-2Z	6205-2Z	25*40*7	25*40*7	140	95	115	0	M8
	2	Q2E100L2C	Alüminyum	217	352,0	1*M25	140	160	100	241	12	28	60	31	8	6306-2Z	6205-2Z	30*47*7	25*40*7	160	110	130	0	M8
	4	Q2E100L4D	Alüminyum	217	352,0	1*M25	140	160	100	241	12	28	60	31	8	6306-2Z	6205-2Z	30*47*7	25*40*7	160	110	130	0	M8
	6	Q2E132M6A	Alüminyum	279	475,5	2*M32	140	216	132	314	12	38	80	41	10	6208-2Z	6208-2Z	40*62*10	40*62*10	200	130	165	0	M10
4,0	2	Q2E100L2DE	Alüminyum	217	352,0	1*M25	140	160	100	241	12	28	60	31	8	6306-2Z	6205-2Z	30*47*7	25*40*7	160	110	130	0	M8
	2	Q2E112M2C	Alüminyum	232	395,5	2*M25	140	190	112	261	12	28	60	31	8	6306-2Z	6206-2Z	30*47*7	30*47*7	160	110	130	0	M8
	4	Q2E112M4C	Alüminyum	232	395,5	2*M25	140	190	112	261	12	28	60	31	8	6306-2Z	6206-2Z	30*47*7	30*47*7	160	110	130	0	M8
	6	Q2E132M6B	Alüminyum	279	475,5	2*M32	178	216	132	314	12	38	80	41	10	6208-2Z	6208-2Z	40*62*10	40*62*10	200	130	165	0	M10

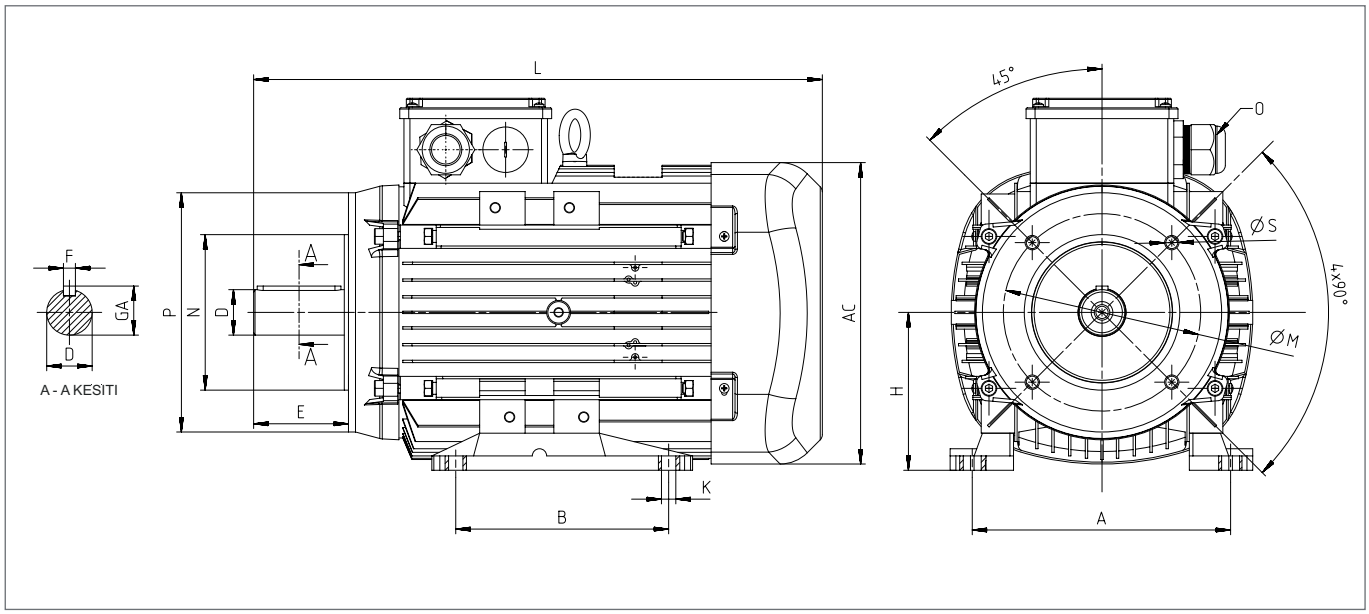
BOYUTLAR / DIMENSIONS - B14a, B34a

				Ana Boyutlar Main Dimensions			Ayaklı Motorlar Foot Mounted Motors					Mil / Shaft				Rulman / Bearing		Keçe / Seal		Flanş / Flange (FC) (B14a)				
Güç Power (kW)	Kutup Sayısı Number of Poles	Motor Tipi Motor Type	GövdeTipi Housing Type	AC	L	O	B	A	H	HD	K	D(1)	E	GA	F(2)	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non Drive Side	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non Drive Side	P	N(3)	M	R	S
5,5	2	Q2E112M2CE	Alüminyum	232	395,5	2*M25	140	190	112	261	12	28	60	31	8	6306-2Z	6206-2Z	30*47*7	30*47*7	160	110	130	0	M8
	4	Q2E112M4D	Alüminyum	232	395,5	2*M25	140	190	112	261	12	28	60	31	8	6306-2Z	6206-2Z	30*47*7	30*47*7	160	110	130	0	M8
	2	Q2E132S2C	Alüminyum	279	440,5	2*M32	140	216	132	314	12	38	80	41	10	6208-2Z	6208-2Z	40*62*10	40*62*10	200	130	165	0	M10
	4	Q2E132M4B	Alüminyum	279	475,5	2*M32	140	216	132	314	12	38	80	41	10	6208-2Z	6208-2Z	40*62*10	40*62*10	200	130	165	0	M10
	6	Q2E132M6C	Alüminyum	279	475,5	2*M32	178	216	132	314	12	38	80	41	10	6208-2Z	6208-2Z	40*62*10	40*62*10	200	130	165	0	M10
7,5	2	Q2E132M2A	Alüminyum	279	475,5	2*M32	140	216	132	314	12	38	80	41	10	6208-2Z	6208-2Z	40*62*10	40*62*10	200	130	165	0	M10
	4	Q2E132M4C	Alüminyum	279	475,5	2*M32	178	216	132	314	12	38	80	41	10	6208-2Z	6208-2Z	40*62*10	40*62*10	200	130	165	0	M10
11,0	2	Q2E132M2AE	Alüminyum	279	475,5	2*M32	140	216	132	314	12	38	80	41	10	6208-2Z	6208-2Z	40*62*10	40*62*10	200	130	165	0	M10

(1) Toleranslar 28 mm'ye kadar DIN EN 50347 "j6", 28 mm ve üzeri "k6"
(2) DIN 6885'e göre
(3) Tolerans DIN EN 50347 "j6"

(1) Tolerance DIN 50347 "j6" up to 28 mm "k6" above 28 mm
(2) According to DIN 6885
(3) Tolerance DIN EN 50347 "j6"

BOYUTLAR / DIMENSIONS - B14b, B34b



				Ana Boyutlar Main Dimensions			Ayaklı Motorlar Foot Mounted Motors					Mil / Shaft				Rulman / Bearing		Keçe / Seal		Flanş / Flange (FB) (B14b)				
Güç Power (kW)	Kutup Sayısı Number of Poles	Motor Tipi Motor Type	Gövde Tipi Housing Type	AC	L	O	B	A	H	HD	K	D(1)	E	GA	F(2)	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non Drive Side	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non Drive Side	P	N(3)	M	R	S
0,25	4	Q2E71M4B	Alüminyum	138	252,5	1*M20	90	112	71	190	7	14	30	16	5	6202-2Z	6202-2Z	15*24*5	15*24*5	140	95	115	0	M8
0,37	2	Q2E71M2C	Alüminyum	138	252,5	1*M20	90	112	71	190	7	14	30	16	5	6202-2Z	6202-2Z	15*24*5	15*24*5	140	95	115	0	M8
	4	Q2E71M4B	Alüminyum	138	252,5	1*M20	90	112	71	190	7	14	30	16	5	6202-2Z	6202-2Z	15*24*5	15*24*5	140	95	115	0	M8
0,55	2	Q2E71M2D	Alüminyum	138	252,5	1*M20	90	112	71	190	7	14	30	16	5	6202-2Z	6202-2Z	15*24*5	15*24*5	140	95	115	0	M8
	4	Q2E80M4B	Alüminyum	158	283,5	1*M20	100	125	80	195	10	19	40	21,5	6	6204-2Z	6204-2Z	20*30*7	20*30*7	160	110	130	0	M8
0,75	2	Q2E71M2DE	Alüminyum	138	252,5	1*M20	90	112	71	190	7	14	30	16,0	5	6202-2Z	6202-2Z	15*24*5	15*24*5	140	95	115	0	M8
	2	Q2E80M2B	Alüminyum	158	283,5	1*M20	100	125	80	195	10	19	40	21,5	6	6204-2Z	6204-2Z	20*30*7	20*30*7	160	110	130	0	M8
	4	Q2E80M4D	Alüminyum	158	283,5	1*M20	100	125	80	195	10	19	40	21,5	6	6204-2Z	6204-2Z	20*30*7	20*30*7	160	110	130	0	M8
	6	Q2E90L6C	Alüminyum	193	316,5	1*M25	100	140	90	222	10	24	50	27	8	6305-2Z	6205-2Z	25*40*7	25*40*7	160	110	130	0	M8
1,1	2	Q2E80M2D	Alüminyum	158	283,5	1*M20	100	125	80	195	10	19	40	21,5	6	6204-2Z	6204-2Z	20*30*7	20*30*7	160	110	130	0	M8
	4	Q2E80M4DE	Alüminyum	158	283,5	1*M20	100	125	80	195	10	19	40	21,5	6	6204-2Z	6204-2Z	20*30*7	20*30*7	160	110	130	0	M8
	4	Q2E90L4C	Alüminyum	193	316,5	1*M25	100	140	90	222	10	24	50	27	8	6305-2Z	6205-2Z	25*40*7	25*40*7	160	110	130	0	M8
	6	Q2E90L6D	Alüminyum	193	344,5	1*M25	125	140	90	222	10	24	50	27	8	6305-2Z	6205-2Z	25*40*7	25*40*7	160	110	130	0	M8
1,5	2	Q2E80M2DE	Alüminyum	158	283,5	1*M20	100	125	80	195	10	19	40	21,5	6	6204-2Z	6204-2Z	20*30*7	20*30*7	160	110	130	0	M8
	2	Q2E90L2C	Alüminyum	193	316,5	1*M25	100	140	90	222	10	24	50	27	8	6305-2Z	6205-2Z	25*40*7	25*40*7	160	110	130	0	M8
	4	Q2E90L4D	Alüminyum	193	316,5	1*M25	125	140	90	222	10	24	50	27	8	6305-2Z	6205-2Z	25*40*7	25*40*7	160	110	130	0	M8
	6	Q2E100L6D	Alüminyum	217	352,0	1*M25	140	160	100	241	12	28	60	31	8	6306-2Z	6205-2Z	30*47*7	25*40*7	200	130	165	0	M10
2,2	2	Q2E90L2D	Alüminyum	193	316,5	1*M25	125	140	90	222	10	24	50	27	8	6305-2Z	6205-2Z	25*40*7	25*40*7	160	110	130	0	M8
	4	Q2E90L4DE	Alüminyum	193	344,5	1*M25	125	140	90	222	10	24	50	27	8	6305-2Z	6205-2Z	25*40*7	25*40*7	160	110	130	0	M8
	4	Q2E100L4C	Alüminyum	217	352,0	1*M25	140	160	100	241	12	28	60	31	8	6306-2Z	6205-2Z	30*47*7	25*40*7	200	130	165	0	M10
	6	Q2E112M6C	Alüminyum	232	395,5	2*M25	140	190	112	261	12	28	60	31	8	6306-2Z	6206-2Z	30*47*7	30*47*7	200	130	165	0	M10
3,0	2	Q2E90L2DE	Alüminyum	193	316,5	1*M25	125	140	90	222	10	24	50	27	8	6305-2Z	6205-2Z	25*40*7	25*40*7	160	110	130	0	M8
	2	Q2E100L2C	Alüminyum	217	352,0	1*M25	140	160	100	241	12	28	60	31	8	6306-2Z	6205-2Z	30*47*7	25*40*7	200	130	165	0	M10
	4	Q2E100L4D	Alüminyum	217	352,0	1*M25	140	160	100	241	12	28	60	31	8	6306-2Z	6205-2Z	30*47*7	25*40*7	200	130	165	0	M10
	6	Q2E132M6A	Alüminyum	279	475,5	2*M32	140	216	132	314	12	38	80	41	10	6208-2Z	6208-2Z	40*62*10	40*62*10	250	180	215	0	M12 veya 15
4,0	2	Q2E100L2DE	Alüminyum	217	352,0	1*M25	140	160	100	241	12	28	60	31	8	6306-2Z	6205-2Z	30*47*7	25*40*7	200	130	165	0	M10
	2	Q2E112M2C	Alüminyum	232	395,5	2*M25	140	190	112	261	12	28	60	31	8	6306-2Z	6206-2Z	30*47*7	30*47*7	200	130	165	0	M10
	4	Q2E112M4C	Alüminyum	232	395,5	2*M25	140	190	112	261	12	28	60	31	8	6306-2Z	6206-2Z	30*47*7	30*47*7	200	130	165	0	M10
	6	Q2E132M6B	Alüminyum	279	475,5	2*M32	178	216	132	314	12	38	80	41	10	6208-2Z	6208-2Z	40*62*10	40*62*10	250	180	215	0	M12 veya 15

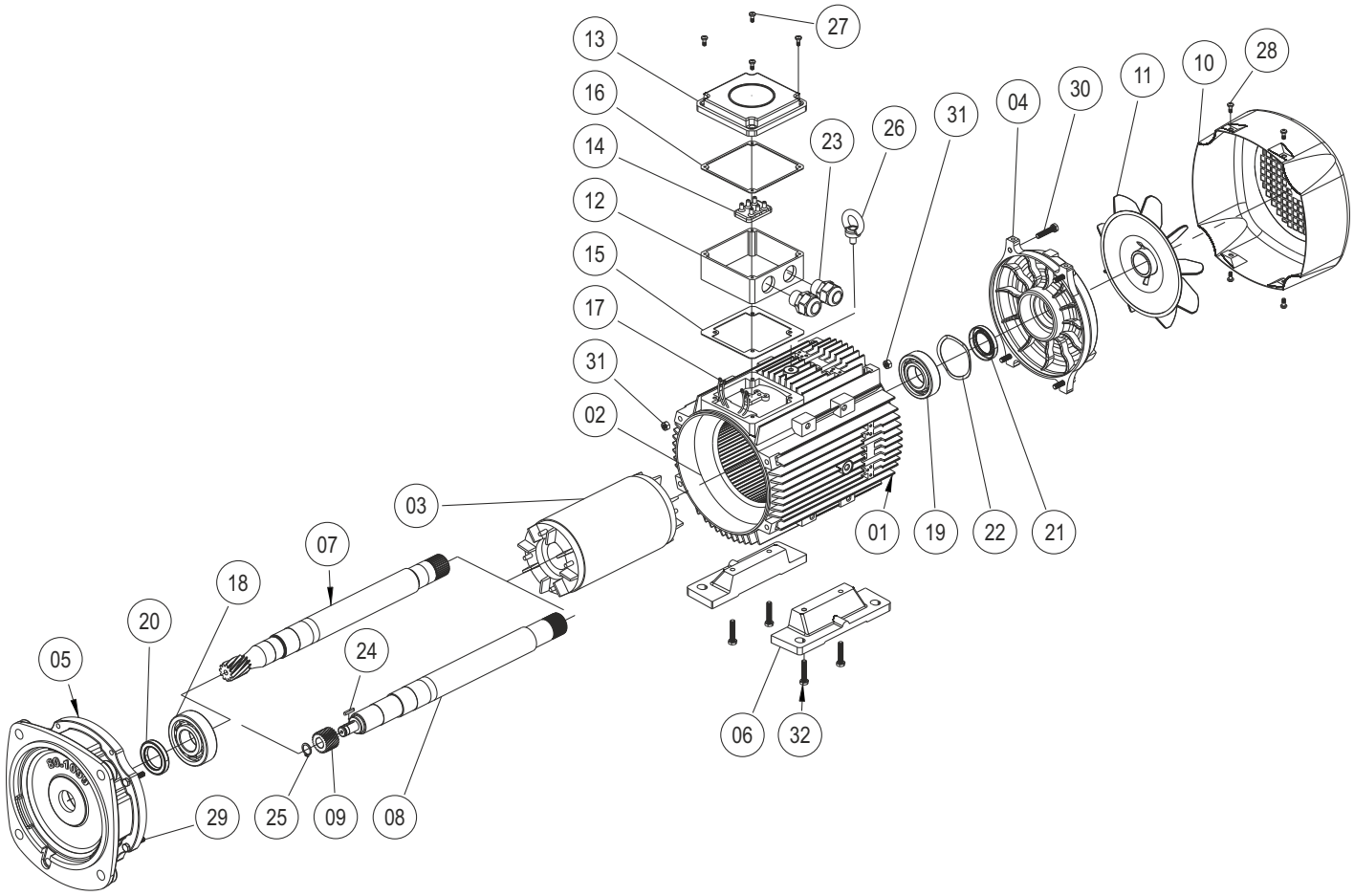
BOYUTLAR / DIMENSIONS - B14b, B34b

				Ana Boyutlar Main Dimesions			Ayaklı Motorlar Foot Mounted Motors					Mil / Shaft				Rulman / Bearing		Keçe / Seal		Flanş / Flange (FB) (B14b)				
Güç Power (kW)	Kutup Sayısı Number of Poles	Motor Tipi Motor Type	Gövde Tipi Housing Type	AC	L	O	B	A	H	HD	K	D(1)	E	GA	F(2)	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non Drive Side	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non Drive Side	P	N(3)	M	R	S
5,5	2	Q2E112M2CE	Alüminyum	232	395,5	2*M25	140	190	112	261	12	28	60	31	8	6306-2Z	6206-2Z	30*47*7	30*47*7	200	130	165	0	M10
	4	Q2E112M4D	Alüminyum	232	395,5	2*M25	140	190	112	261	12	28	60	31	8	6306-2Z	6206-2Z	30*47*7	30*47*7	200	130	165	0	M10
	2	Q2E132S2C	Alüminyum	279	440,5	2*M32	140	216	132	314	12	38	80	41	10	6208-2Z	6208-2Z	40*62*10	40*62*10	250	180	215	0	M12 veya 15
	4	Q2E132M4B	Alüminyum	279	475,5	2*M32	140	216	132	314	12	38	80	41	10	6208-2Z	6208-2Z	40*62*10	40*62*10	250	180	215	0	M12 veya 15
	6	Q2E132M6C	Alüminyum	279	475,5	2*M32	178	216	132	314	12	38	80	41	10	6208-2Z	6208-2Z	40*62*10	40*62*10	250	180	215	0	M12 veya 15
7,5	2	Q2E132M2A	Alüminyum	279	475,5	2*M32	140	216	132	314	12	38	80	41	10	6208-2Z	6208-2Z	40*62*10	40*62*10	250	180	215	0	M12 veya 15
	4	Q2E132M4C	Alüminyum	279	475,5	2*M32	178	216	132	314	12	38	80	41	10	6208-2Z	6208-2Z	40*62*10	40*62*10	250	180	215	0	M12 veya 15
11,0	2	Q2E132M2AE	Alüminyum	279	475,5	2*M32	140	216	132	314	12	38	80	41	10	6208-2Z	6208-2Z	40*62*10	40*62*10	250	180	215		M12 veya 15

(1) Toleranslar 28 mm'ye kadar DIN EN 50347 "j6", 28 mm ve üzeri "k6"
(2) DIN 6885'e göre
(3) Tolerans DIN EN 50347 "j6"

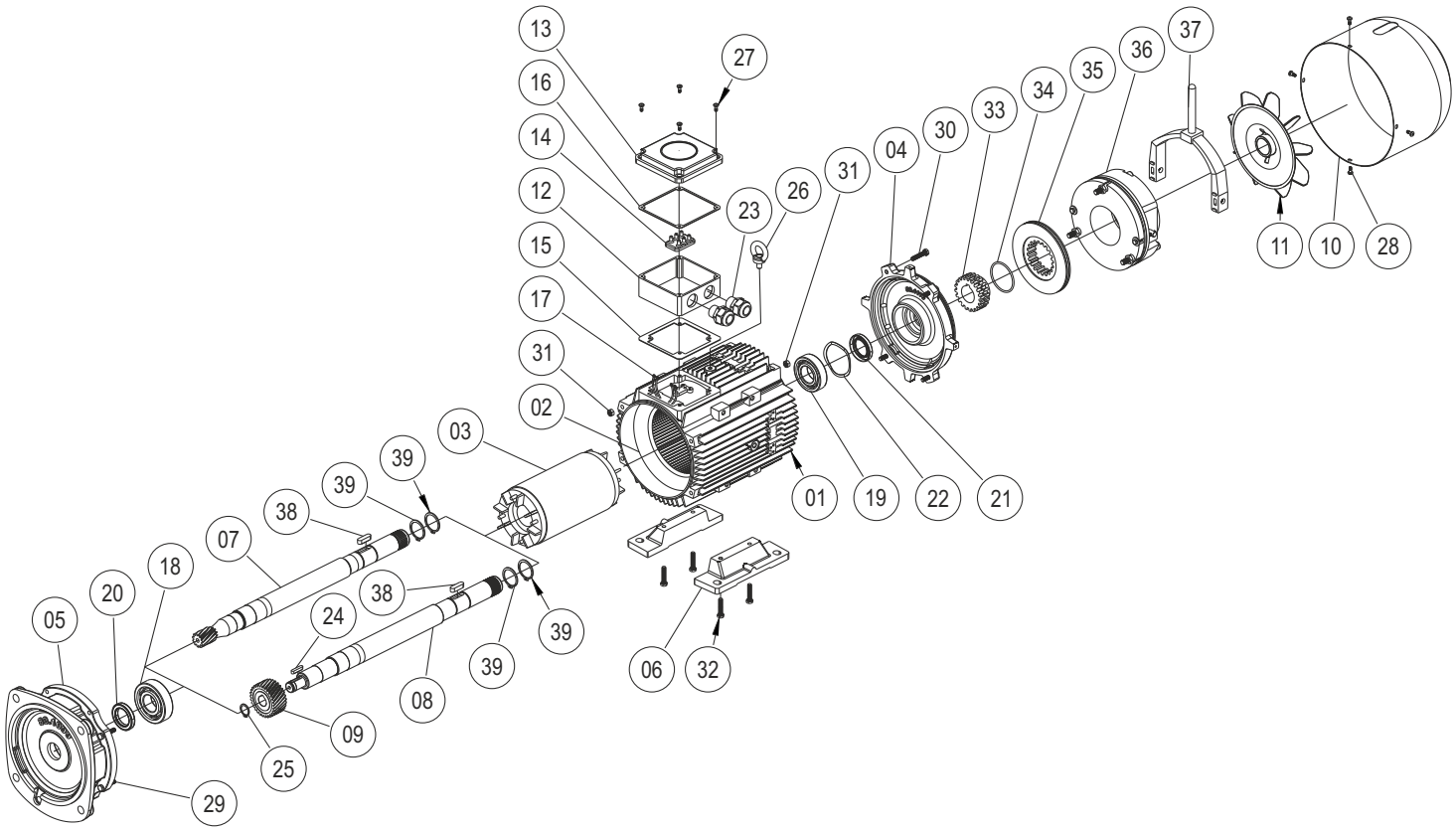
(1) Tolerance DIN EN 50347 "j6" up to 28 mm "k6" above 28 mm
(2) According to DIN 6885
(3) Tolerance DIN EN 50347 "j6"

MOTOR PARÇA LİSTESİ / MOTOR PART LIST



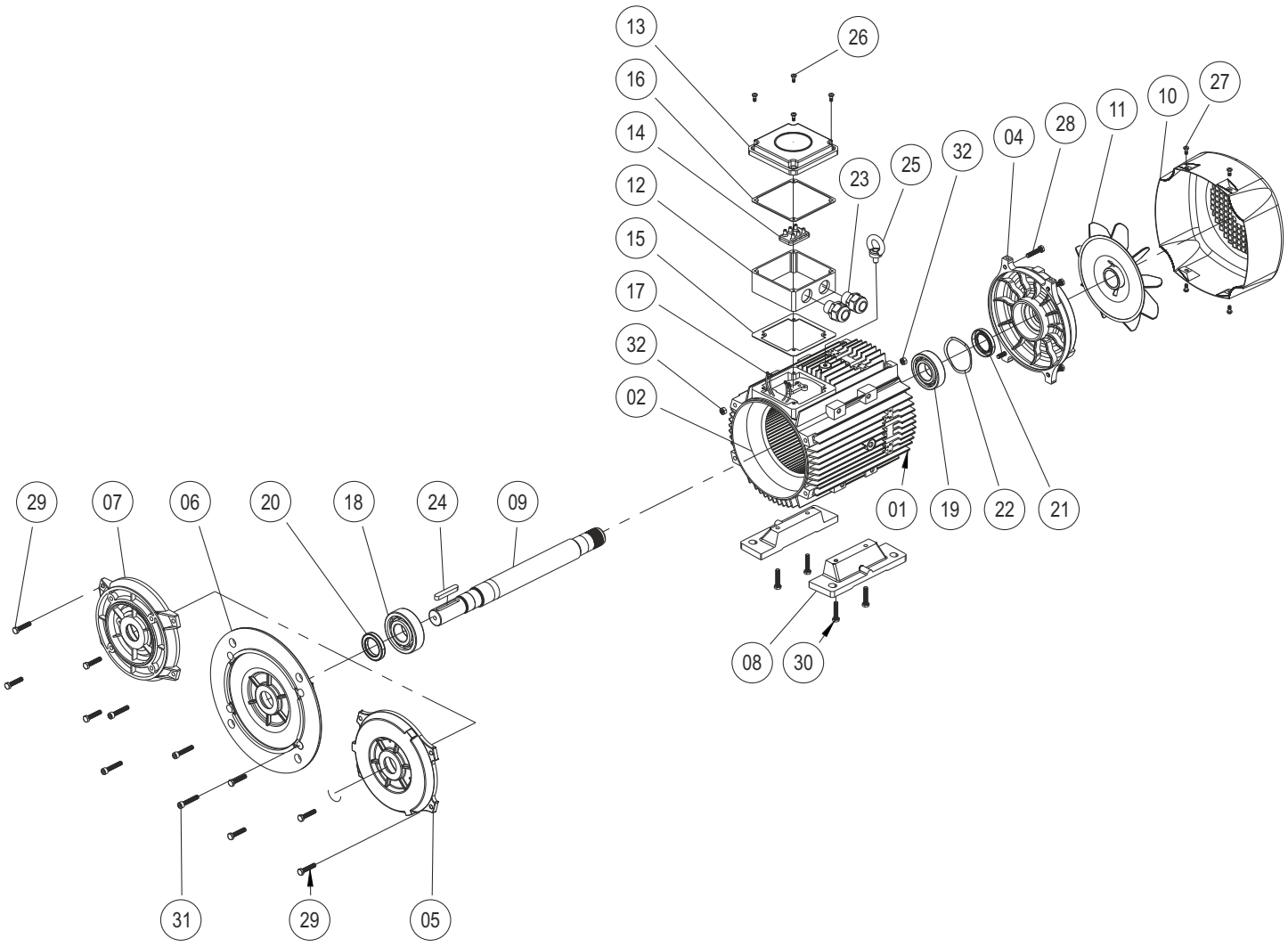
01	**Gövde**	01	Housing	**17**	**Kablo Grubu**	17	Lead Cables
02	**Sargılı Stator**	02	Wound Stator	**18**	**Ön Rulman**	18	Bal Bearing (Drive-Side)
03	**Rotor**	03	Rotor	**19**	**Arka Rulman**	19	Bal Bearing (Non-Drive-Side)
04	**Motor Arka Kapağı**	04	Nondrive - Endshield	**20**	**Keçe (Ön)**	20	Seal Ring (Front)
05	**PGR Motor Bağlantı Flanşı**	05	Moter Connection Flange	**21**	**Keçe (Arka)**	21	Seal Ring (Back)
06	**Ayak**	06	Foot	**22**	**Rulman Gergi Yayı**	22	Bearing Shim
07	**Motor Mili (Yekpare)**	07	Drive Shaft (Gearcut)	**23**	**Rakor**	23	Conduit
08	**Motor Mili (Çakma)**	08	Drive Shaft (Plain)	**24**	**Kama**	24	Key
09	**Z1 Dişlisi**	09	Z1 Gear	**25**	**Segman**	25	Circilip DIN 471
10	**Fan Kapağı**	10	Fan Cover	**26**	**Mapa**	26	Eye Bolt
11	**Fan**	11	Fan	**27**	**Yıldız Başlı Civata**	27	Pan Head Secrews
12	**Terminal Kutusu**	12	Terminal Box	**28**	**Yıldız Başlı Civata**	28	Pan Head Secrews
13	**Terminal Kutu Kapağı**	13	Terminal Box Cover	**29**	**Civata DIN 933**	29	Bolt
14	**Klemens Plakası**	14	Terminal Plate	**30**	**Civata DIN 933**	30	Bolt
15	**Terminal Contası Alt**	15	Terminal Gasket Down	**31**	**Somun**	31	Nut
16	**Terminal Contası Üst**	16	Terminal Gasket Up	**32**	**Civata DIN 933**	32	Bolt

FRENLİ MOTOR PARÇA LİSTESİ / BRAKE MOTOR PART LIST



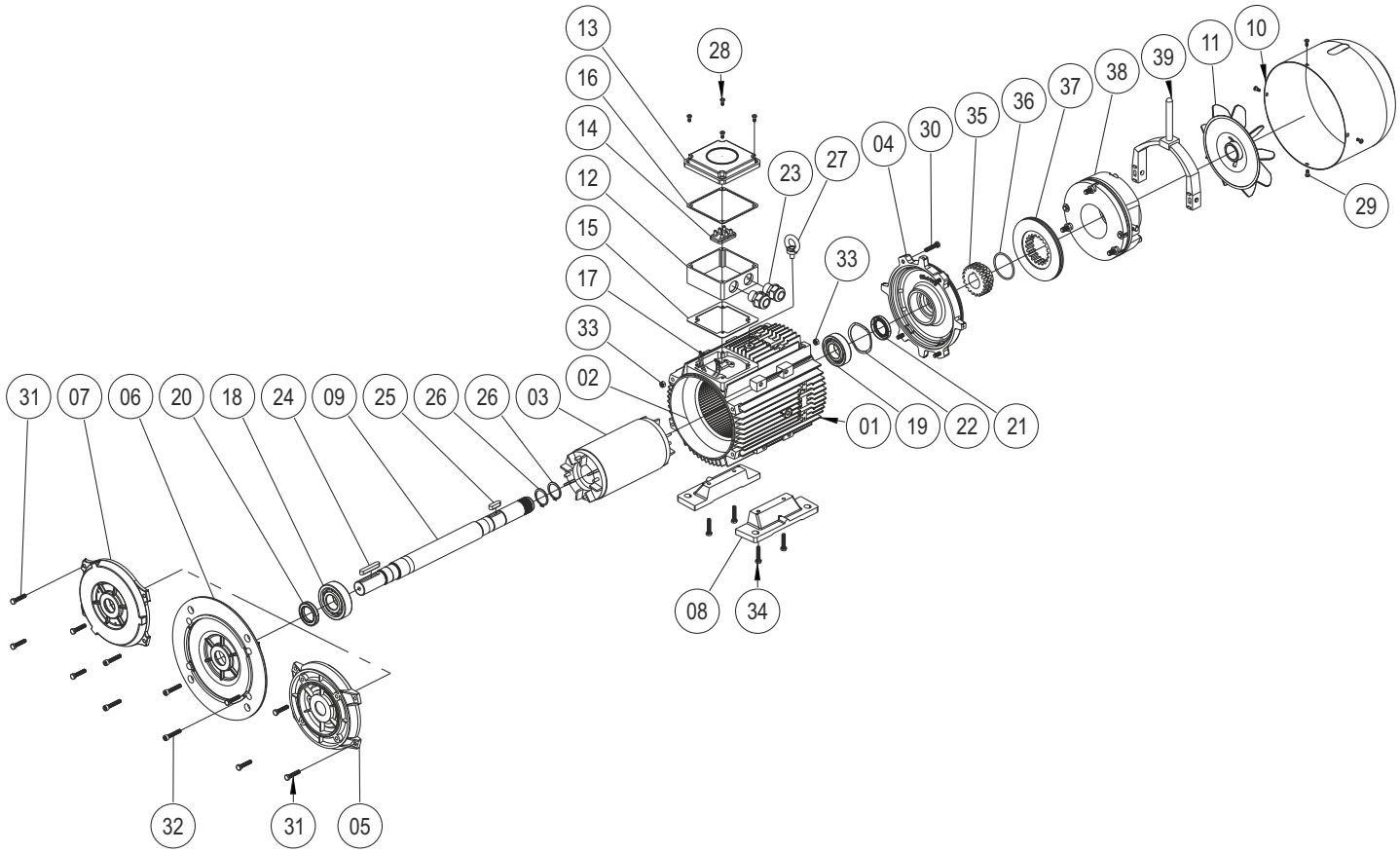
01	**Gövde**	01	Housing	**21**	**Keçe (Arka)**	21	Seal Ring (Back)
02	**Sargılı Stator**	02	Wound Stator	**22**	**Rulman Gergi Yayı**	22	Bearing Shim
03	**Rotor**	03	Rotor	**23**	**Rakor**	23	Conduit
04	**Fren Flanşı**	04	Brake Connection Flange	**24**	**Kama**	24	Key
05	**PGR Motor Bağlantı Flanşı**	05	Motor Connection Flange	**25**	**Segman**	25	Circilip DIN 471
06	**Ayak**	06	Foot	**26**	**Mapa**	26	Eye Bolt
07	**Motor Mili (Yekpare)**	07	Drive Shaft (Gearcut)	**27**	**Yıldız Başlı Civata**	27	Pan Head Secrews
08	**Motor Mili (Çakma)**	08	Drive Shaft (Plain)	**28**	**Yıldız Başlı Civata**	28	Pan Head Secrews
09	**Z1 Dişlisi**	09	Z1 Gear	**29**	**Civata DIN 933**	29	Bolt
10	**Fan Kapağı**	10	Fan Cover	**30**	**Civata DIN 933**	30	Bolt
11	**Fan**	11	Fan	**31**	**Somun**	31	Nut
12	**Terminal Kutusu**	12	Terminal Box	**32**	**Civata DIN 933**	32	Bolt
13	**Terminal Kutu Kapağı**	13	Terminal Box Cover	**33**	**Fren Kaplini / Coupling**	33	Coupling
14	**Klemens Plakası**	14	Terminal Plate	**34**	**O-Ring / O-Ring**	34	O-Ring
15	**Terminal Contası Alt**	15	Terminal Gasket Down	**35**	**Fren Balatası / Break Lining**	35	Brake Lining
16	**Terminal Contası Üst**	16	Terminal Gasket Up	**36**	**Fren / Break**	36	Brake
17	**Kablo Grubu**	17	Lead Cables	**37**	**Manuel Kolu / Hand Release**	37	Hand Release
18	**Ön Rulman**	18	Bal Bearing (Drive-Side)	**38**	**Kama / Key**	38	Key
19	**Arka Rulman**	19	Bal Bearing (Non-Drive-Side)	**39**	**Segman / Circilip DIN 471**	39	Circilip DIN 471
20	**Keçe (Ön)**	20	Seal Ring (Front)				

B3-B5-B14 FLANŞLI MOTOR PARÇA LİSTESİ / B3-B5-B14 FLANGE MOTOR PART LIST



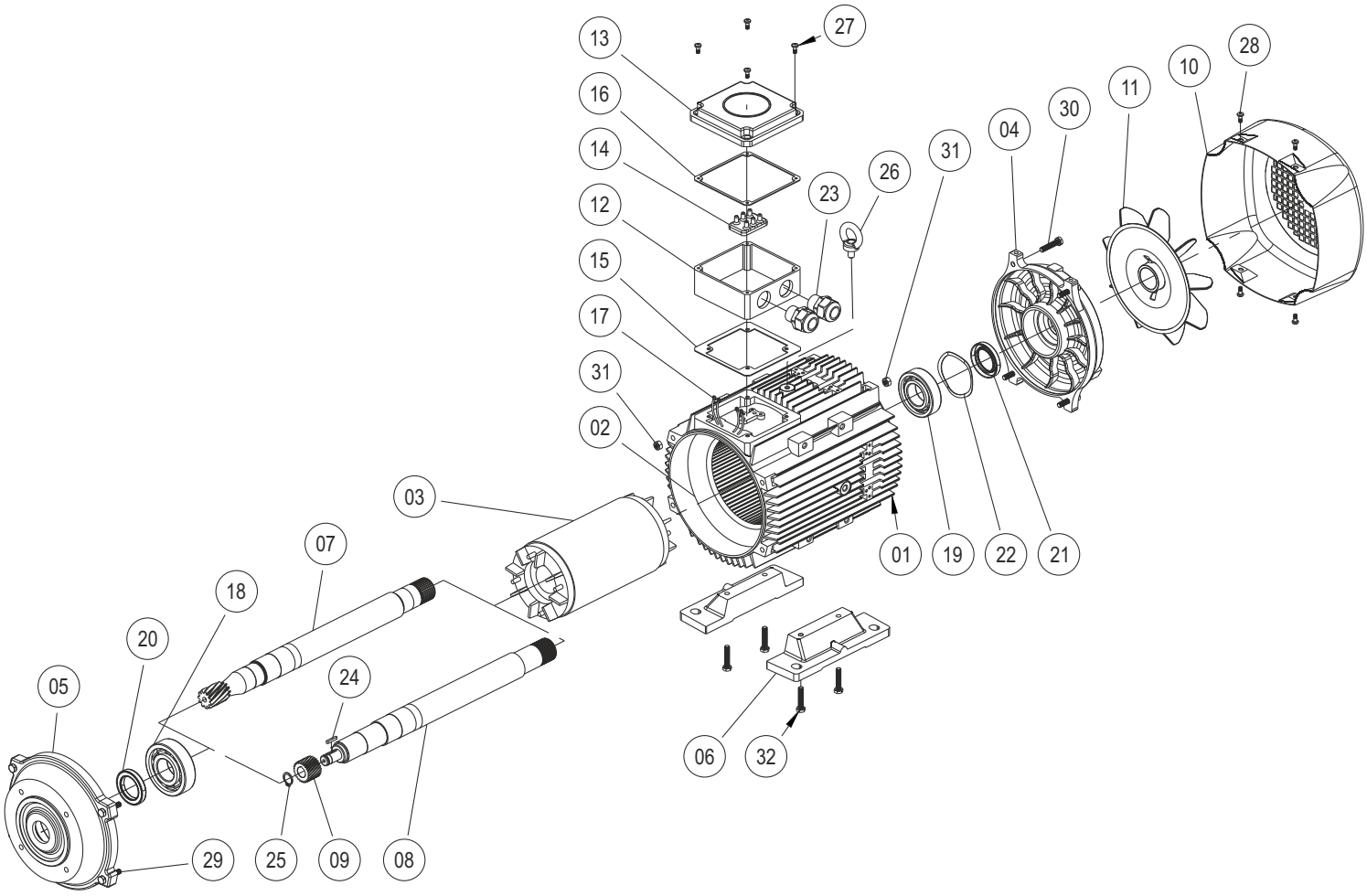
01	**Gövde**	01	Housing
02	**Sargılı Stator**	02	Wound Stator
03	**Rotor**	03	Rotor
04	**Motor Arka Kapağı**	04	Nondrive - Endshield
05	**B3 Motor Bağlantı Flanşı**	05	Flange
06	**B5 Motor Bağlantı Flanşı**	06	Flange
07	**B14 Motor Bağlantı Flanşı**	07	Flange
08	**Ayak**	08	Foot
09	**Motor Mili (Standart)**	09	Drive Shaft (Gearcut)
10	**Fan Kapağı**	10	Fan Cover
11	**Fan**	11	Fan
12	**Terminal Kutusu**	12	Terminal Box
13	**Terminal Kutu Kapağı**	13	Terminal Box Cover
14	**Klemens Plakası**	14	Terminal Plate
15	**Terminal Contası Alt**	15	Terminal Gasket Down
16	**Terminal Contası Üst**	16	Terminal Gasket Up
17	**Kablo Grubu /**	17	Lead Cables
18	**Ön Rulman /**	18	Bal Bearing (Drive-Side)
19	**Arka Rulman /**	19	Bal Bearing (Non-Drive-Side)
20	**Keçe (Ön) /**	20	Seal Ring (Front)
21	**Keçe (Arka) /**	21	Seal Ring (Back)
22	**Rulman Gergi Yayı /**	22	Bearing Shim
23	**Rakor /**	23	Conduit
24	**Kama /**	24	Key
25	**Mapa /**	25	Eye Bolt
26	**Yıldız Başlı Civata /**	26	Pan Head Secrews
27	**Yıldız Başlı Civata /**	27	Pan Head Secrews
28	**Civata DIN 933 /**	28	Bolt
29	**Civata DIN 933 /**	29	Bolt
30	**Civata DIN 933 /**	30	Bolt
31	**Civata DIN 912 /**	31	Bolt
32	**Somun /**	32	Nut

FRENLİ B3-B5-B14 FLANŞLI MOTOR PARÇA LİSTESİ / BRAKE B3-B5-B14 FLANGE MOTOR PART LIST



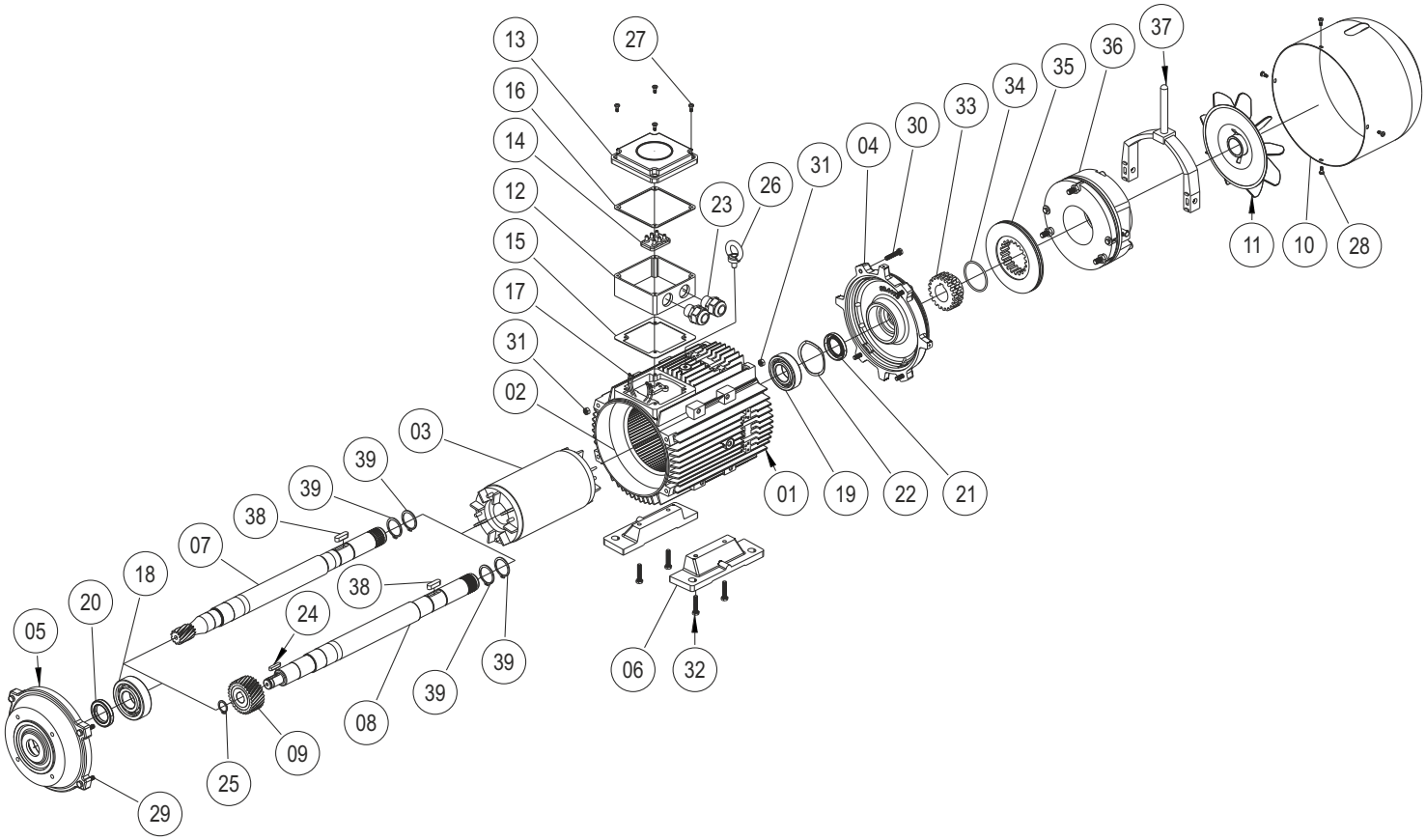
01	**Gövde**	01	Housing
02	**Sargılı Stator**	02	Wound Stator
03	**Rotor**	03	Rotor
04	**Fren Flanşı**	04	Brake Connection Flange
05	**B3 Motor Bağlantı Flanşı**	05	Flange
06	**B5 Motor Bağlantı Flanşı**	06	Flange
07	**B14 Motor Bağlantı Flanşı**	07	Flange
08	**Ayak**	08	Foot
09	**Motor Mili (Standart)**	09	Drive Shaft (Gearcut)
10	**Fan Kapağı**	10	Fan Cover
11	**Fan**	11	Fan
12	**Terminal Kutusu**	12	Terminal Box
13	**Terminal Kutu Kapağı**	13	Terminal Box Cover
14	**Klemens Plakası**	14	Terminal Plate
15	**Terminal Contası Alt**	15	Terminal Gasket Down
16	**Terminal Contası Üst**	16	Terminal Gasket Up
17	**Kablo Grubu**	17	Lead Cables
18	**Ön Rulman**	18	Bal Bearing (Drive-Side)
19	**Arka Rulman**	19	Bal Bearing (Non-Drive-Side)
20	**Keçe (Ön)**	20	Seal Ring (Front)
21	**Keçe (Arka)**	21	Seal Ring (Back)
22	**Rulman Gergi Yayı**	22	Bearing Shim
23	**Rakor**	23	Conduit
24	**Kama**	24	Key
25	**Kama**	25	Key
26	**Segman**	26	Circilip DIN 471
27	**Mapa**	27	Eye Bolt
28	**Yıldız Başlı Civata**	28	Pan Head Secrews
29	**Yıldız Başlı Civata**	29	Pan Head Secrews
30	**Civata DIN 933**	30	Bolt
31	**Civata DIN 933**	31	Bolt
32	**Civata DIN 912**	32	Bolt
33	**Somun**	33	Nut
34	**Civata DIN 933**	34	Bolt
35	**Fren Kaplini**	35	Brake Coupling
36	**O-Ring**	36	O-Ring
37	**Fren Balatası**	37	Brake Lining
38	**Fren**	38	Brake
39	**Manuel Kolu**	39	Hand Release

MOTOR PARÇA LİSTESİ / THE MOTOR PART LIST



01	**Gövde**	01	Housing	**17**	**Kablo Grubu**	17	Lead Cables
02	**Sargılı Stator**	02	Wound Stator	**18**	**Ön Rulman**	18	Bal Bearing (Drive-Side)
03	**Rotor**	03	Rotor	**19**	**Arka Rulman**	19	Bal Bearing (Non-Drive-Side)
04	**Motor Arka Kapağı**	04	Nondrive - Endshield	**20**	**Keçe (Ön)**	20	Seal Ring (Front)
05	**PGR Motor Bağlantı Flanşı**	05	Moter Connection Flange	**21**	**Keçe (Arka)**	21	Seal Ring (Back)
06	**Ayak**	06	Foot	**22**	**Rulman Gergi Yayı**	22	Bearing Shim
07	**Motor Mili (Yekpare)**	07	Drive Shaft (Gearcut)	**23**	**Rakor**	23	Conduit
08	**Motor Mili (Çakma)**	08	Drive Shaft (Plain)	**24**	**Kama**	24	Key
09	**Z1 Dişlisi**	09	Z1 Gear	**25**	**Segman**	25	Circilip DIN 471
10	**Fan Kapağı**	10	Fan Cover	**26**	**Mapa**	26	Eye Bolt
11	**Fan**	11	Fan	**27**	**Yıldız Başlı Civata**	27	Pan Head Secrews
12	**Terminal Kutusu**	12	Terminal Box	**28**	**Yıldız Başlı Civata**	28	Pan Head Secrews
13	**Terminal Kutu Kapağı**	13	Terminal Box Cover	**29**	**Civata DIN 933**	29	Bolt
14	**Klemens Plakası**	14	Terminal Plate	**30**	**Civata DIN 933**	30	Bolt
15	**Terminal Contası Alt**	15	Terminal Gasket Down	**31**	**Somun**	31	Nut
16	**Terminal Contası Üst**	16	Terminal Gasket Up	**32**	**Civata DIN 933**	32	Bolt

FRENLİ MOTOR PARÇA LİSTESİ / THE MOTOR PART LIST WITH BRAKE

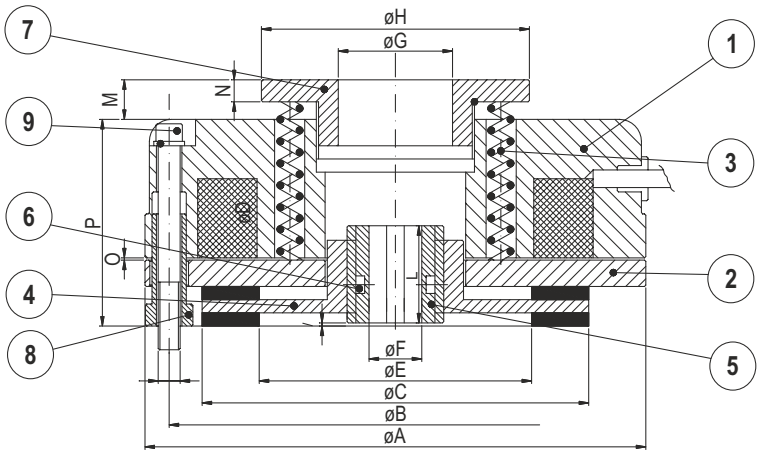


01	**Gövde**	01	Housing	**21**	**Keçe (Arka)**	21	Seal Ring (Back)
02	**Sargılı Stator**	02	Wound Stator	**22**	**Rulman Gergi Yayı**	22	Bearing Shim
03	**Rotor**	03	Rotor	**23**	**Rakor**	23	Conduit
04	**Fren Flanşı**	04	Brake Connection Flange	**24**	**Kama**	24	Key
05	**PGR Motor Bağlantı Flanşı**	05	Flange	**25**	**Segman**	25	Circilip DIN 471
06	**Ayak**	06	Foot	**26**	**Mapa**	26	Eye Bolt
07	**Motor Mili (Yekpare)**	07	Drive Shaft (Gearcut)	**27**	**Yıldız Başlı Civata**	27	Pan Head Secrews
08	**Motor Mili (Çakma)**	08	Drive Shaft (Plain)	**28**	**Yıldız Başlı Civata**	28	Pan Head Secrews
09	**Z1 Dişlisi**	09	Z1 Gear	**29**	**Civata DIN 933**	29	Bolt
10	**Fan Kapağı**	10	Fan Cover	**30**	**Civata DIN 933**	30	Bolt
11	**Fan**	11	Fan	**31**	**Somun**	31	Nut
12	**Terminal Kutusu**	12	Terminal Box	**32**	**Civata DIN 933**	32	Bolt
13	**Terminal Kutu Kapağı**	13	Terminal Box Cover	**33**	**Fren Kaplini**	33	Coupling
14	**Klemens Plakası**	14	Terminal Plate	**34**	**O-Ring**	34	O-Ring
15	**Terminal Contası Alt**	15	Terminal Gasket Down	**35**	**Fren Balatası**	35	Brake Lining
16	**Terminal Contası Üst**	16	Terminal Gasket Up	**36**	**Fren**	36	Brake
17	**Kablo Grubu**	17	Lead Cables	**37**	**Manuel Kolu**	37	Hand Release
18	**Ön Rulman**	18	Bal Bearing (Drive-Side)	**38**	**Kama**	38	Key
19	**Arka Rulman**	19	Bal Bearing (Non-Drive-Side)	**39**	**Segman**	39	Circilip DIN 471
20	**Keçe (Ön)**	20	Seal Ring (Front)				

TR FREN PARÇA LİSTESİ VE ÖZELLİKLERİ

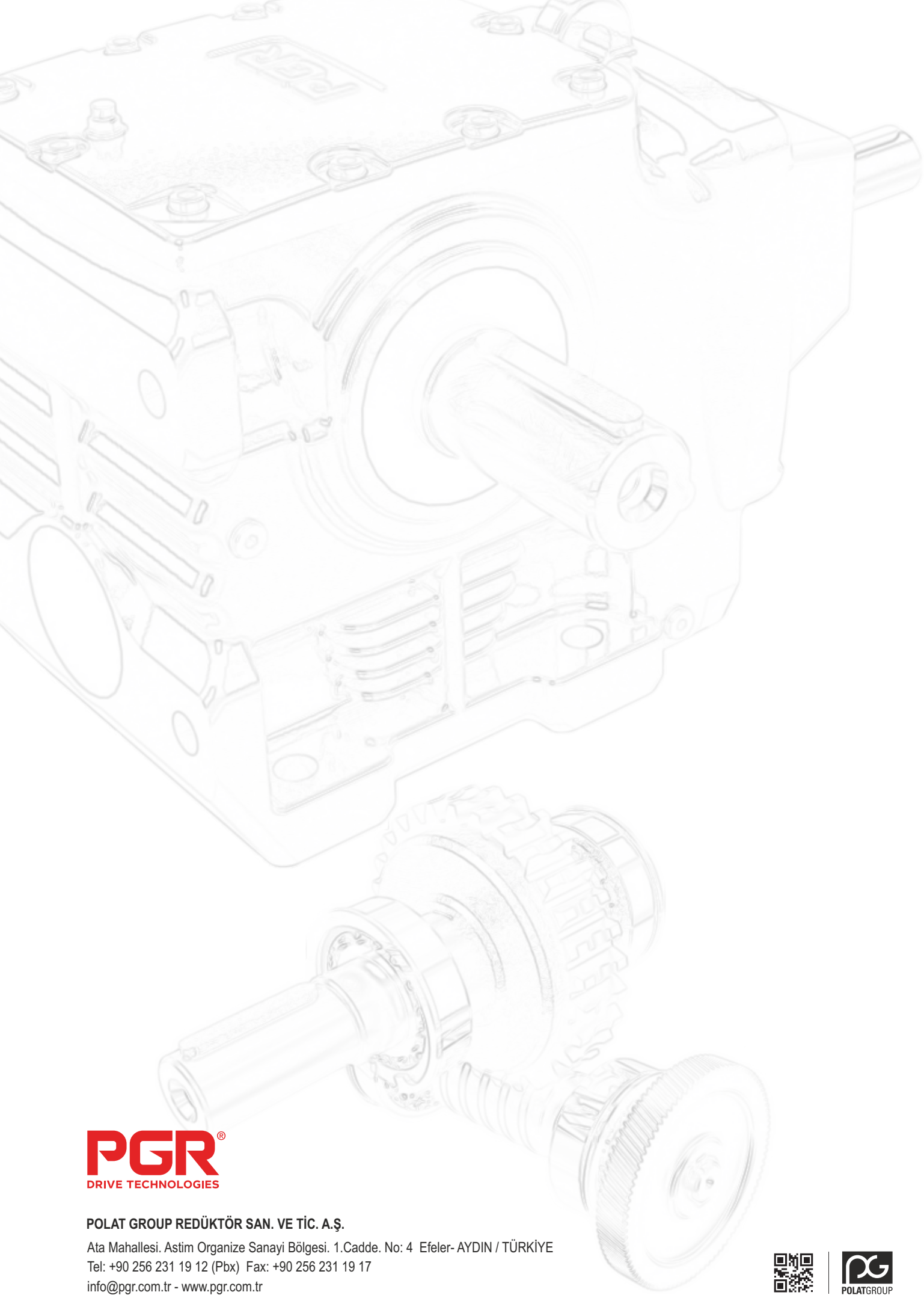
1 Elektro mıknatıs	**1** Electromagnet
2 Endüvi plakası	**2** Armature plate
3 Tork yayı	**3** Torque springs
4 Disk	**4** Disc
5 Kamalı burç	**5** Splined hub
6 O-ring	**6** O-ring
7 Ayar halkası	**7** Adjuster rings
8 Ayar somunu	**8** Adjuster nuts
9 Bağlantı cıvataları	**9** Fixing screws

EN BRAKE PART LIST AND PROPERTIES



Tip / Type Fren Modeli / Brake Model		K1	K2	K3	K4	K5	K6	K7	K7/D	K8	K8/D	K9	K9/D	K9/T
Statik Fren Momenti Static Braking Torque	(Nm)	5	12	16	20	40	60	90	180	200	400	300	600	900
Motorun Max. Hızı Max Speed of the motor	(rpm)	3000	3000	3000	3000	3000	3000	3000	3000	1500	1500	1500	1500	1500
Giriş Gücü Input Power	(W)	15	20	25	30	45	50	55	55	60	60	65	65	65
Max. Ses Max noisiness	(≤dB-A)	68	69	68	69	70	70	70	70	70	69	69	69	70
Ağırlık Weight	(Kg.)	1,1	1,85	2,55	2,84	4,8	7	12	15	14,3	18	23	28	34
	A	84	104	114	124	148	159	189	189	218	218	248	248	248
	B	72	90	103	112	132	145	170	170	196	196	230	230	230
	C	61	77	88	98	119	128	151	151	176	176	204	204	204
	D	3xM4	3xM5	3xM5	3xM6	3xM6	3xM8	3xM8	3xM8	6xM10	6xM10	6xM10	6xM10	9xM10
Delik toleransı K3'e kadar H7, diğerleri + 0,01/-0,01 Tollerance hole till size K3 H7, others + 0,01/-0,01	E	35	44	62	69	79	80	90	90	103	103	132	132	132
	F	10-11 12	11-14 15	11-15	14-25	24-25 28	25-30 34	25-30 34	25 H40 34 H60	24-34	34 H60 48	44-45 48	44-45 48	44-45 48-50
	G	20	26	26	42	60	60	60	60	60	60	60	60	60
	H	50	61	61	79	104	104	104	104	104	104	104	104	104
	I	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5
	L	18	20	20	20	25	30	30	60	40	60	40	60	80
	M (max)	9	9	9	9,5	18	16	14	14	18	18	18	18	18
	N	4	4	4	5,5	8	8	8	8	8	8	8	8	8
	O	0,2	0,2	0,2	0,2	0,3	0,3	0,3	0,3	0,3	0,4	0,4	0,4	0,4÷0,5
	P	38,5	41,5	47	46,5	64	69,5	79	101,5	78	98	80	105	130

Not : Fren çalıştırılmadan önce statik fren momenti tabloda verilen değerlere göre ± % 20 değişiklik gösterebilir.
Note : The brake before running in, the static braking torque value could change by +20% from the reported value.



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DRIVE TECHNOLOGIES

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