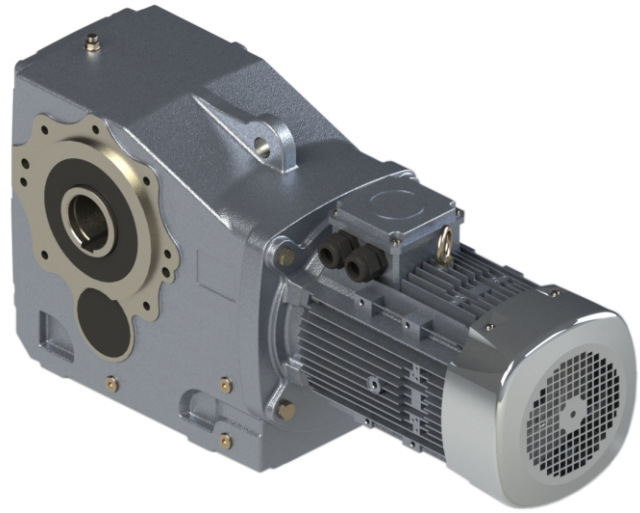
PGR®

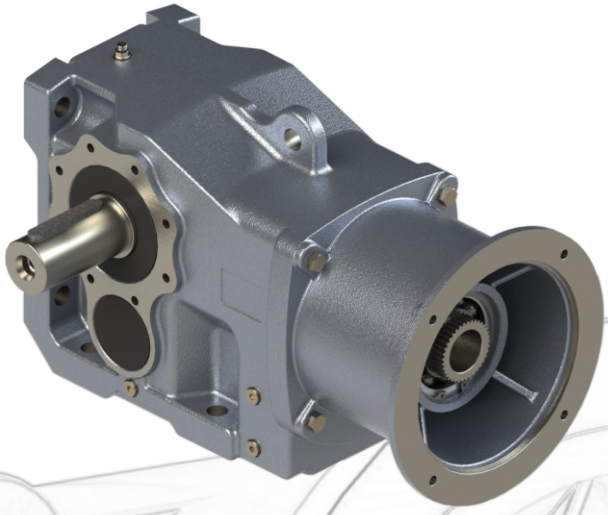
DRIVE TECHNOLOGIES

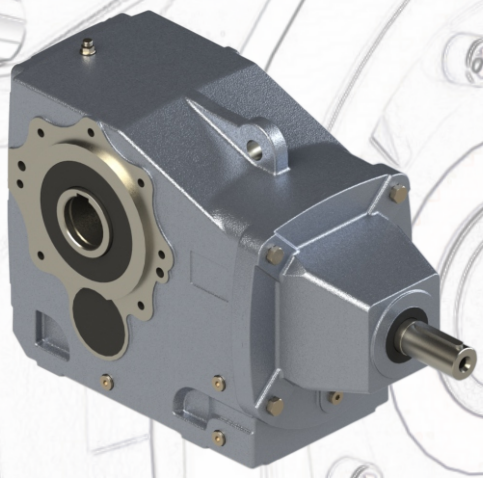
Helisel Konik Dişli Redüktör

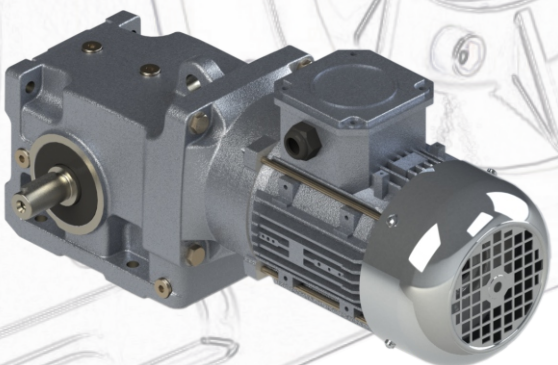
Helical Bevel Gear Units

PKD SERIES









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DRIVE TECHNOLOGIES

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Müşteri ve çalışan memnuniyetini en üst düzeyde tutan, gelişmeleri izleyen değil yaratan bir dünya şirketi olmaktır.

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Polat Group Redüktör olarak birçok farklı ürün yelpazesi ile, müşteri ihtiyacını maksimum seviyede karşılamak için eş zamanlı mühendislik yöntemlerini kullanarak çalışmalarını sürdürmektedir. Tasarım faaliyetleri, ürün geliştirme programları ve bilgisayar destekli çalışmalarımız sürekli gelişen bir grafik çizmektedir. Rekabetçi ve güçlü kalite politikamız müşteri yelpazemizi genişletmektedir.

EN OUR QUALITY POLICY

To achieve the best quality of its products, POLAT GROUP REDÜKTÖR A.Ş. adopts with its own quality politics by following the technological developments of its sector, in order to keep up the stabilization on its own market share ensuring the customers' gladness increasing permanently by answering the customers' wishes and expectations completely at the right time to have the well-educated staffs increase their performance by providing a peaceful working place and making better the quality management system all the time.

OUR VISION

Our vision is to become a world company which keeps the customer satisfaction at the top level and which does not only follow the developments but also creates the developments itself.

OUR MISSION

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

Our reducer group carries out is works using simultaneous engineering methods inorder to meet the demands of our customers by presenting several different product ranges. Promotion activities, product development programmes and computer supporting work show 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. Termal olarak transfer edilebilen güç sadece PA\PF 62, PD\PM 62 ve daha büyük (iki kademeli dişli üniteleri için) gövdeler ve PA\PF 73, PD\PM 73, PKD 6390-7390 ve daha büyük gövdeler (üç kademeli dişli üniteleri) için olası bir sınırı gösterir. 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 41- 42)
- Tahvil oranı i_{top}< 20 (Polat konik dişlili için i_{top}< 40)

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 vsgibi 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 of 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. When you apply different motor please contact with PGR. There are some condition for selecting gear unit and these condition must be considered overloading could be effected 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

Conditions of selecting gear unit;

1. Thermal Limit

Thermal transfer power should not be exceeded over running time (3 hours) for prevent overheated gear unit. In larger gear unit size this condition is important and units have thermal limit for instance PA\PF 62 and greater unit size, PA\PF 73, PD\PM 73, PKD 6390-7390. For these problems, you must check ambient and some other conditions which are explained below. Any suspicion please contact with 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 41- 42)
- Reduction ratio i_{top} < 20 (for helical-bevel gear units i_{top} < 40)

2. Power transfer with service factor "P"

Service factor f_B is important for power transfer, determination of minium service factor will be given at following information.

For every operating conditions; eg. heat radiation in bounded field (place) which is required special devices (oil cooler or water cooler) for that reason please contact with PGR.

Input power and service factor

For every application requiring input power could be detected or determined by calculation. After determination input power, rated motor power (P_1) is defined. Motor power is greater than require input power due to 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_{Bmin}, '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

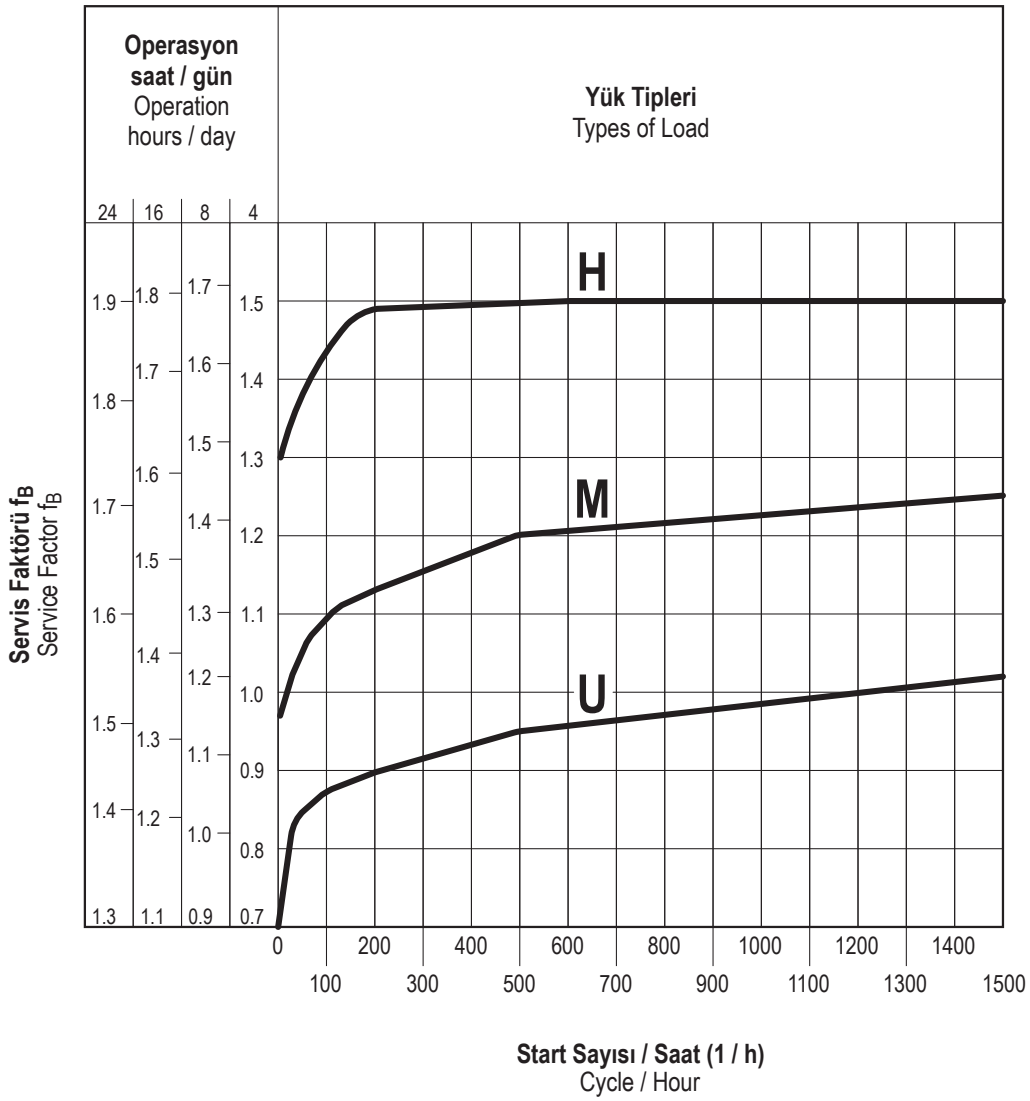
EN SERVICE FACTOR

Diagram 1 shows requiring minimum service factor depend on revolution per hours 'Z' and types of load 'U', 'M' or 'H'. In following information mass acceleration factor will be explained how it effects to or relation between load classification. 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 :

U) Düzgün çalışma
Küçük karıştırıcılar, asansörler, konveyörler, montaj bantları, doldurma makinaları, bantlı konveyörler, temizleme makinaları, fanlar, test makinaları.

M) Yumuşak şoklar, düzgün olmayan çalışma
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.

H) Ağır şoklar, aşırı düzgün olmayan çalışma
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} = 3,8 gibi durumda yük sınıfı 'H' 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 ünitesiverimi (η) sonucu ortaya çıkan momenti Ma arasındaki ilişkidir.

EN EXPLANATORY NOTES

Selecting a Gear Unit
Operation classification;

U) Uniform application
Small agitators, elevators, conveyors, assembly belts, filling machines, conveyor belts, cleaning machines, fans, testing machines.

M) Moderate shocks, non-uniform application
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.

H) Heavy shocks, extreme non-uniform application
Stone crusher, eccentric presses, choppers, presses, 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 which factor is greater than other you must take for calculation. (Eg; heavy - shock and m_{af} = 3,8 load classification must be 'H')

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} is played important role at the level of torque propulsive in the gear unit. It is mostly effected at start-up, braking operation and vibration. Please contact with PGR where m_{af} is greater than 10 and large play 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.

$$M_2 = \frac{9550 \cdot P1 \cdot \eta}{n_2} \quad [Nm],\ P1\ [kW],\ n_2\ [min^{-1}]$$

$$f_B = \frac{M_{amax}}{M_2}$$

TR TEKNİK BİLGİLER

$$P_1 = \frac{M_2 \cdot n_2}{9550} .\eta \; [\,kW\,],\; M_2\,[\,Nm\,],\; n_2\,[\,min^{-1}\,]$$

Dişli ünitesini doğru şekilde seçtiğinizde, çıkış ve hız genel açıklamalarından alınan servis faktörü f_B, diyagram 1'e göre minimum servis faktörü $f_{B\,min}$'den büyük veya eşittir.

$$f_B \geq f_{Bmin}$$

Helisel, parallel mil ve helisel konik dişli ünitelerinde her bir kademe için çok yüksek bir seviyede verimlilik vardır (herbir kademe için yaklaşık %98 veya η=0,98). Bu yüzden hesaplamalarda verim η =1,0 alınması yeterli doğru sonuçlara ulaşılmasına yardımcı olur. Helisel sonsuz dişliler ile ilgili dişli ünitesi verimliliği, her bir çıkış hızı n_2'ye ait çıkış ve diş oran tablolarında listelenmiştir. W kovanı montajlı (serbest hareket mili) redüktörde çıkış gücü aşağıdaki formülden hesaplanır.

$$P_1 = \frac{M_{amax} \cdot n_2}{9550 \cdot f_{Bmin}} .\eta \;\; [\,kW\,],\;\; M_{amax}\,[\,Nm\,],\; n_2\;\; [\,min^{-1}\,]$$

Burada, azami hareket gücü P_{1max} aşılamaz.

$$P_1 \leq P_{1max}$$

W ve IEC tipi redüktörler için performans tablosunda herbir çıkış devri n_2, maksimum çıkış momenti $M_{amax.}$, maksimum motor gücü $P_{1max.}$ listelenmiştir.

Hareketli tarafa fren bağlandığında, (frenli motorlar gibi) fren momenti de bir dişli ünitesini seçmede göz önüne alınmalıdır. Gezinti hareketleri, çember dişliler, döner tablalar, kapı hareketleri, karıştırıcılar ve yüzey havalandırıcı ile ilgili uygulamalarda sıkça karşılaşılan yüksek dış kütle atalet momentli (m_{af} > 2) kullanımlarda frenleme momentinin, seçilen anma momentinin 1,2 katını aşmamasını öneririz. Daha yüksek frenleme torkları kullanılacaksa, bu durum dişli ünitesini seçerken göz önünde bulundurulmalıdır. Lütfen PGR'e danışınız.

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.

EN EXPLANATORY NOTES

If the selecting gear unit is right, service factor which is taken from selection of gear motors table, must be greater than minimum service factor $f_{B\,min}$ which is taken from diagram-1 (see page 4) according to types of load.

Efficiency is approximately 98% at helical, helical bevel parallel shaft gear units. For that reason efficiency could be taken η = 1 it shows that efficiency does not effect the calculation. But, for helical worm gear efficiency is given at table which is depended on output speed and gear ratio. With W cylinder (free drive shafts) ;

Value which calculated from equation P_1, must be less than P_{1max} which is taken from the selection of W cylinder tables.

P_{1max} is shown at performance table for W cylinder (with free input shaft) and IEC adapter.

However in selecting gear units brake can be equipped optionally and it is attached to the shaft or solid. It must be considered because of break torque. Application which havehigh external mass moment of inertia such as m_{af} > 2. We suggest break torque does not overrun 1,2 times motor torque.

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. $F_{R\,GR}$ and $F_{A\,GR}$ represents permissible load with reinforced bearings. This 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.

TR TEKNİK BİLGİLER

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 fz radyal kuvveti saptamada göz önüne alınmalıdır.

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.

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

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 a lınan 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 - I

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

Formül - II

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

X mil faturasından kuvvet uygulama noktasına olan uzaklık [mm]
X noktası - mil kararlılığı

F_{RXW} izin 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} izin verilen radyal yük [kN]

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

9 - 10

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

EN EXPLANATORY NOTES

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.

fz values are shown at table.

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

Radial load is determined with following equation;

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

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 forcewhich is taken from the speed and output moment tables. [kN]
$F_{R\ vorth}$: Radial force on the gear unit shaft [kN]

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

Equation - I

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

Equation - II

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

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

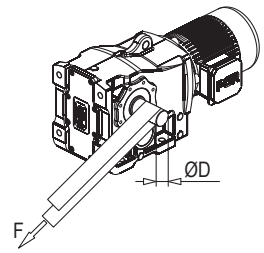
F_{RXW} permitted overhung force [kN]

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

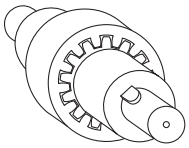
F_{RXL} permitted overhung load [kN]

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

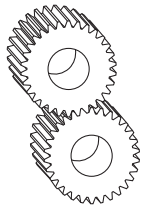
TR RADYAL YÜK HESABI



RADYAL YÜKLERİN HESABI
Radyal yük F_R (N)' nun hesaplanmasında gerekli tahrik momenti M_a (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.

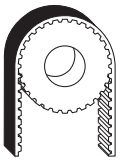


2 - Düz Dişli (20° kavrama açılı)

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

3 - Küçük Hızlarda Zincir Dişli (Z < 17)

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



4 - Triger Kayış

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

5 - V Kayış

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

6 - Gerdirme Makaralı Kayış

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

EN CALCULATION OF OVERHUNG LOADS

CALCULATION OF OVERHUNG LOADS
Radial load F_R (N) is calculated with the following equations where required moment M_a (Nm) and hoop or gear diameter D (mm) is

1 - Elastic 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

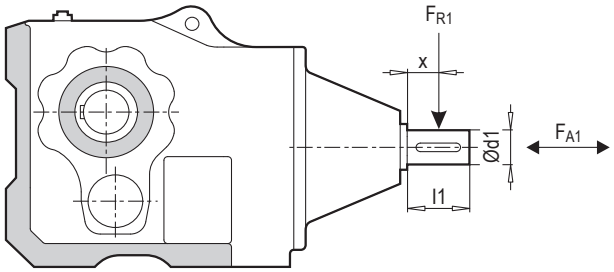
5 - For V Belt

6 - Flat Belt With Spanning Puley

TR RADYAL YÜK HESABI

EN CALCULATION OF OVERHUNG LOADS

W

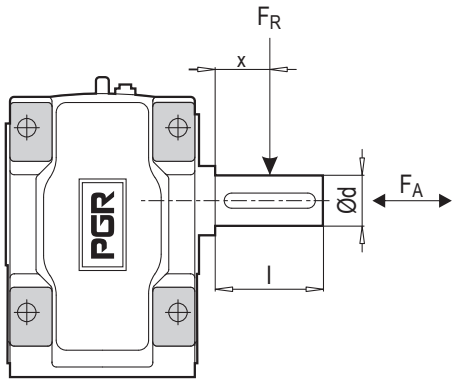


GİRİŞ ŞAFTINDAKİ RADYAL VE EKSENEL YÜK HESAPLAMALARI İÇİN DEĞERLER
VALUE TABLE FOR RADIAL AND AXIAL LOADS AT INPUT SHAFT **f=0**

Helisel konik redüktör Helical bevel gearboxes	**y** (mm)	**z** (mm)	**c** (Nmm)	**d1** (mm)	**l1** (mm)
PKD A 0290 **PKD B 0290**	58.5	78.5	0.027×10^6	14	40
PKD C 1290	58.5	78.5	0.037×10^6	16	40
PKD F 4290	59.5	79.5	0.032×10^6	19	40
PKD H 5290	69.0	94.0	0.109×10^6	24	50
PKD 1390 **PKD G 1390** **PKD 1490** **PKD G 1490** **PKD 2390** **PKD 2490** **PKD 3490**	70.0	90.0	3.64×10^4	16	40
PKD 3390 **PKD 4490** **PKD 5490**	96.5	121.5	1.07×10^5	24	50
PKD 4390 **PKD 5390**	110.5	150.5	4.70×10^5	38	80
PKD 6390 **PKD 7390**	149.5	204.5	4.60×10^5	42	110
PKD 8390 **PKD G 8390** **PKD 9390**	207.5	277.5	1.82×10^6	65	140
PKD G 9390	299.0	369.0	–	70	140

TR RADYAL YÜK HESABI

EN CALCULATION OF OVERHUNG LOADS



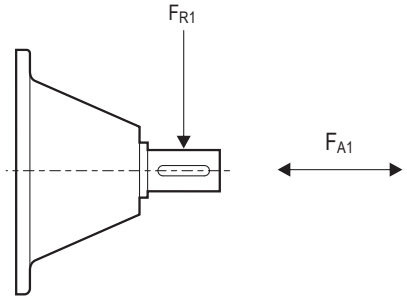
ÇIKIŞ ŞAFTINDAKİ RADYAL VE EKSENEL YÜK HESAPLAMALARI İÇİN DEĞERLER
VALUE TABLE FOR RADIAL AND AXIAL LOADS AT OUTPUT SHAFT

Redüktör Tipi Gearbox Type	**y** (mm)	**z** (mm)	**c Normal** Normal (Nmm)	**c Güçlendirilmiş** Reinforced (Nmm)	**f** (mm)	**d** (mm)	**l** (mm)
PKD A 0290	95.0	115.0	0.06×10^6	–	0	20	40
PKD B 0290	111.0	131.0	0.05×10^6	–	0	20	40
PKD C 1290	128.0	153.0	0.08×10^6	–	0	25	50
PKD F 4290	136.0	166.0	0.12×10^6	–	0	30	60
PKD H 5290	153.0	188.0	0.16×10^6	–	0	35	70
PKD 1390 - PKD 1490	111.0	141.0	0.14×10^6	0.24×10^6	0	30	60
PKD G 1390 - PKD G 1490	111.0	146.0	0.25×10^6	0.41×10^6	0	35	70
PKD 2390 - PKD 2490	144.0	179.0	0.17×10^6	0.30 x 10	0	35	70
PKD 3390 - PKD 3490	171.5	216.5	0.29×10^6	0.58×10^6	0	45	90
PKD 4390 - PKD 4490	181.0	241.0	1.22×10^6	1.99×10^6	0	60	120
PKD 5390 - PKD 5490	237.0	307.0	1.75×10^6	3.08×10^6	0	70	140
PKD 6390	281.0	366.0	4.49×10^6	7.05×10^6	0	90	170
PKD 7390	281.0	366.0	4.49×10^6	7.05×10^6	0	90	170
PKD 8390	326.7	431.7	8.36×10^6	12.82×10^6	0	110	210
PKD G 8390	422.0	527.0	9.56×10^6	15.60×10^6	0	120	210
PKD 9390	515.0	640.0	14.40×10^6	24.61×10^6		140	250
PKD G 9390	550.0	710.0	48.73×10^6	–		140	320

TR RADYAL YÜK HESABI

EN CALCULATION OF OVERHUNG LOADS

- **W ADAPTÖR**
- W ADAPTER



Tip Type	PKD A 0290 PKD B 0290		PKD C 1290		PKD F 4290		PKD H 5290		PKD 1390 PKD G 1390 PKD 2390 PKD 1490 PKD G 1490 PKD 2490 PKD 3490		PKD 3390 PKD 4490 PKD 5490		PKD 4390 PKD 5390		PKD 6390 PKD 7390		PKD 8390 PKD G 8390 PKD 9390 PKD G 9390	
	[kN]	[kN]	[kN]	[kN]	[kN]	[kN]	[kN]	[kN]	[kN]	[kN]	[kN]	[kN]	[kN]	[kN]	[kN]	[kN]	[kN]	[kN]
P_1 (kW)	F_{A1}	F_{R1}	F_{A1}	F_{R1}	F_{A1}	F_{R1}	F_{A1}	F_{R1}	F_{A1}	F_{R1}	F_{A1}	F_{R1}	F_{A1}	F_{R1}	F_{A1}	F_{R1}	F_{A1}	F_{R1}
0.12	1.2	0.55	1.2	0.85	2.9	2.13	3.7	2.3	1.2	0.85	2.9	2.1	-	-	-	-	-	-
0.18	1.1	0.54	1.1	0.82	2.9	2.1	3.5	2.2	1.1	0.82	2.9	2.1	-	-	-	-	-	-
0.25	1.0	0.53	1.0	0.78	2.8	2.1	3.2	2.1	1.0	0.78	2.8	2.1	-	-	-	-	-	-
0.37	0.89	0.50	0.89	0.75	2.6	2.1	3.1	2.1	0.89	0.75	2.6	2.1	4.1	2.1	-	-	-	-
0.55	0.77	0.47	0.77	0.72	2.5	2.0	3.0	2.2	0.77	0.72	2.5	2.0	3.9	2.8	-	-	-	-
0.75	0.58	0.44	0.58	0.70	2.3	1.9	2.8	2.0	0.58	0.70	2.3	1.9	3.8	2.4	6.1	4.4	-	-
1.10	0.35	0.37	0.35	0.61	2.1	1.8	2.6	1.9	0.35	0.61	2.1	1.8	3.5	2.7	5.9	4.3	-	-
1.50	0.29	0.30	0.29	0.43	2.0	1.8	2.4	1.9	0.29	0.43	2.0	1.8	3.3	2.6	5.8	4.2	-	-
2.20	-	-	0.20	0.42	1.7	1.7	2.2	1.8	0.20	0.42	1.7	1.7	2.7	2.4	5.5	4.1	-	-
3.00	-	-	0.15	0.23	1.5	1.6	2.0	1.8	0.15	0.23	1.5	1.6	2.5	2.3	5.2	3.9	4.3	11.0
4.00	-	-	-	-	0.98	1.1	1.9	1.6	-	-	0.98	1.1	2.3	2.1	4.9	3.7	4.2	10.9
5.50	-	-	-	-	0.66	1.0	1.8	1.5	-	-	0.65	1.0	1.6	1.8	4.4	3.4	4.1	10.8
7.50	-	-	-	-	0.45	1.0	1.5	1.3	-	-	0.27	1.0	1.4	1.3	4.3	3.4	3.8	10.4
9.20	-	-	-	-	0.28	0.74	1.1	1.0	-	-	-	-	1.0	0.98	3.9	3.1	3.6	10.1
11.0	-	-	-	-	-	-	-	-	-	-	-	-	0.59	0.47	3.3	2.7	3.4	9.9
15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.3	2.7	3.1	9.5
18.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.7	2.3	3.0	9.3
22.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.2	1.8	2.9	9.3
30.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.1	1.2	2.3	8.4
37.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.74	0.87	2.0	8.1
45.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.2	8.3
55.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.5	7.4
75.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.78	4.6
90.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.24	5.2
110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
132	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
160	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

$F_{A1} \rightarrow F_{A1} = 0$

$F_{R1} \rightarrow F_{R1} = 0$

7

TR KISALTMALAR

f_B	= Servis Faktörü (Mamax / Ma)
F_A	= Çıkış tarafındaki müsaade edilebilir eksenel yük [kN]
F_R	= Çıkış tarafındaki, milin orta noktasına etkiyen müsaade edilebilir radyal yük [kN]
i_{toplam}	= Dişli ünitesindeki toplam tahvil oranı
i_{ges}	= Tahvil oranı
M_2	= Çıkış momenti [Nm]
M_{amax}	= Müsaade edilebilir maksimum çıkış momenti [Nm]
n_2	= Çıkış hızı [d/dk]
P_e	= Mamax referans alınarak hesaplanan güç [kW]
P_n	= Motor güç oranı [kW]
η	= Verim [%]
kg	= Redüktörün ağırlığı

1) 4 ve 5 kademeli redüktörlerin 0,75 kW'a kadar olan 4 kutuplu motorlarında kayıp yaklaşık 40 W olarak hesaplanmıştır. Kayıp, motor hızına bağlı olarak o oranda değişir.

EN ABBREVIATIONS

f_B	= Service factor (Mamax / Ma)
F_A	= Permissible axial load at the output side [kN]
F_R	= Permissible overhung load at the output side, force acting at the shaft's midpoint [kN]
i_{total}	= Gear units total ratio= Gear units total ratio
i_{ges}	= Reduction ratio
M_2	= Output torque [Nm]
M_{amax}	= Max. permissible output torque [Nm]
n_2	= Output speed [min^{-1}]
P_e	= Calculated power [kW] with reference to Mamax
P_n	= Rated power of motor [kW]
η	= Efficiency [%]
kg	= Weight of the geared motor

1) Gear units or gear motors which have 4 and 5 stagereduction 4 pole motor up to 0,75 kW losses arecalculated nearly 40 W, losses are dependent motor speed.

TR PKD TANITIMI

POLAT KONİK DİŞLİLİ (PKD)

Polat Group Redüktör ürünü olan Polat Konik Dişlili PKD serisini farklı tahvil oranları ile 17 farklı gövde büyüklüğündehizmete sunmaktadır. PKD serisi, kullanıcılara yapısında bulunan konik dişlilerle kendisine verilen hareketin devrini düşürerek hareketin 90 derece çevirip aktarımını sağlar.

Yekpare gövde tasarımı PKD serisinde sağlam bir gövde yapısını sağlayarak dişliler arası eksen kaçıklığına neden olabilecek bağlantı elemanı (vida v.b.) içermez. Döküm gövde salınım etkisini an aza indirir. Kullanıcı isteğine göre her iki yönde de sağlanan çıkış yaklaşık olarak % 96 gibi yüksek verim olanağı ile sunulmaktadır.

Fabrikamızda bulunan son sistem CNC tezgahlarında açılan dişliler yüksek imalat toleransı ile günümüzün uluslararası standartlarını karşılamaktadır. Dövme malzemeden yapılan dişlerimiz gerekli ısıl işlem, sementasyon, honlama gibi proseslerden geçirilerek sessiz ve dayanımlı, uzun süre çalışabilen redüktörler imal edilmektedir. Bununla birlikte zorlu çalışma koşullarında güvenli çalışma sağlanır. PKD serisi redüktörlerimiz her türlü endüstriyel uygulamada kullanılabilmektedir.

Bu eşsiz tasarımda temin ettiğimiz motorlu, W kovanlı veya IEC adaptörlü standart ürünlerimiz ;

* Delik Milli, Mil Çıkışlı
* Delik Milli, Konik Sıktırmalı
* Tork Kollu
* B5 veya B14 Flanşlı

Helisel Konik Dişlili Redüktör :
0.12 kW dan 200 kW'ya kadar 17 boy mevcuttur. 65000 Nm'ye kadar çıkış momenti bulunur.

EN DESCRIPTION OF PKD

POLAT HELICAL BEVEL GEARED MOTOR (PKD)

Concept of Polat Helical-Bevel Gear unit series are presented to a service by POLAT GROUP REDÜKTÖR with different reduction range and 17 different case width. This design have helical bevel gearset, for that reason this series provide 90 degree angle between input and output direction for transmitting motion.

This robust design have bloc case, this bloc case design ensures strong structure and layout does not include fasteners (e.g. screw) which could be caused a missalignment at gear. PKD series case which is founded from casting, ensure and facilitate mounting from case and it reducers effecting of vibration or oscillation. According to customer demand output direction could be both left and right with 96 per cent afficiency.

Our manufacturing gears which are machined at high technology CNC machines, meet up to date international high standards. Gears are manufactured from forging materials and heat treatment, carburizing and honning processes are applied for silent, strength running for longer time. Besides, units available for hars environments. PKD series could be used all of industry applications.

Available products of PKD series with motor or W cylinder or IEC adapter is;

* Hollow Shaft, Solid Shaft
* Hollow Shaft, With Shrink disc
* Torque Arm
* Flange B5 and B14

Helical Bevel Gearboxes :
65000 Nm output moment altering from 0,12 kW to 200 kW

MAX. MÜSAADE EDİLEBİLİR ÇIKIŞ MOMENTİ Ma max.

MAX. PERMISSIBLE OUTPUT TORQUES Ma max.

213 - 230

İki, Üç ve dört kademeli helisel konik dişlili redüktör

Helical - bevel gear boxes double, triple and quadruple reduction

Redüktör Tipi Gearbox type	**PKD A 0290**	**PKD B 0290**	**PKD C 1290**	**PKD F 4290**	**PKD H 5290**	**PKD 1390** **PKD 1490**	**PKD G 1390** **PKD G 1490**	**PKD 2390** **PKD 2490**	**PKD 3390** **PKD 3490**
Ma max. (Nm)	90	120	230	380	660	400	610	860	1550

Redüktör Tipi Gearbox type	**PKD 4390** **PKD 4490**	**PKD 5390** **PKD 5490**	**PKD 6390**	**PKD 7390**	**PKD 8390**	**PKD G 8390**	**PKD 9390**	**PKD G 9390**
Ma max. (Nm)	2800	4800	8200	8500	13000	20000	32000	50000

TR W VE IEC ADAPTÖR

W kovanlı redüktörlerin max. tahrik gücü geçerli olan çıkış devri ve tahvil oranına göre tablolarda verilmiştir. (Bknz 213-230) 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.

W kovanlı redüktörlerin giriş mili rulmanları düzenli olarak yağlanmalıdır. 2 kademeli redüktörlerden PA\PF 62, PD\PM 62 ve üst gövdeler, 3 kademeli redüktörlerden PA\PF 73, PD\PM 73, PKD 6390 ve üst gövdeler için her 4000 çalışma saatinde yaklaşık 20-25gr gres içeren otomatik yağlayıcı kullanılarak giriş şaftı rulmanı yağlamasını öneririz. Kullanılan yağlayıcı Petamo GHY 133 N' dir. Ayrıca W kovanlı redüktörlerde bu yağlayıcıdan ayrı opsiyon olarak dişli ünitesinin soğumasını sağlamak için dış fan da mevcuttur.Lütfen danışınız.

Otomatik yağlayıcı üniteleri IEC 160 motor büyüklüğünden başlayarak en düşük 2 kademeli redüktörlerden PA\PF 62, PD\PM 62, 3 kademeli redüktörlerden de PA\PF 73, PD\PM 73, PKD 6390 gövdelerine bağlanmaktadır. Bu otomatik yağlayıcı rulmanlara kalıcı bir yağlama sağlar. Redüktörü çalıştırmadan önce devreye sokulmalıdır. Günlük ortalama 8 saat çalışıyorsa yılda 1 kez, bunun dışındaki çalışma saatlerinde 6 ayda bir değiştirilmelidir. Otomatik yağlayıcı içindeki gres dış ortam sıcaklığı 0° C - 40° C arasındaki çalışmalara uygundur. Çok uzun süreli çalışmalarda ve belirtilen dış ortam sıcaklığı değişimlerinde daha özel yağlayıcı kullanılmalıdır. Lütfen danışınız.

Otomatik yağlayıcılı IEC'ler belirtilen çalışma şartları içerisinde dikey montaj pozisyonunda (M2 ve M4) önerilmez. Bu gibi durumlarda direkt motor montajı önerilir. Eğer motor boyutu 160 ve daha büyük IEC'ler dikey montaj pozisyonunda kullanılacaksa, kullanım şartları göz önünde bulundurularak tarafımızdan kontrol edilmeli ve onaylanmalıdır. Lütfen buna dikkat ediniz. Dikey montaj pozisyonu çalışmalarında (M2) sızdırmazlık elemanlarının ömrü azalabilmektedir. Bu gibi durumlarda daha kısa aralıklarla bakım yapılmalıdır. 2 kademeli redüktörlerden PA\PF 52, PD\PM 52'ye kadar ve 3 kademeli redüktörlerden PA\PF 63, PD\PM 63, PKD 5390'a kadar olan IEC adaptörlü dişli üniteleri çalışma ömürleri süresince sızdırmazlığa sahip yağlanmış rulman içerir. Bunlar için bakım süreleri kullanım kılavuzunda önerilen bakım süreleri geçerlidir.

Motor boyutu 63'ten 180'e kadar olan IEC adaptörün kapliniarızaya karşı emniyetli değildir. Fakat otomatik yağlayıcı kullanılan IEC 160-180 ve daha büyük boyutlu adaptörlerdeki kaplinler arızaya karşı emniyetlidir. Kaldırma, asansör ve bu gibi insan yaralanmalarına neden olabilecek çalışmalar için özel hesaplamalar gerekmektedir. Lütfen PGR' ye danışınız. Direk motor montajlı redük törle 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 montajınıöneririz. Bu size sadece teknik avantaj değil finansal olarak da avantaj sağlar.A

EN W AND IEC ADAPTER FOR GEAR UNİTS

Selection of W cylinder (with free input shaft) and IEC adapter are listed on page 213-230. Maximum power are given according to gear reduction ratio and output speed. Gear
units with IEC adapter standard power is specified according to DIN EN 50347. For other power values which are not shown on table, must be required special calculation for operating safety limits. For these cases, please contact with PGR

Polat gear unit series such as PA\PF 62, PD\PM 62 and greater case which are 2 stage reducers, PA\PF 73, PD\PM 73, PKD 6390 and greater case which are 3 stage reducers with W adapter (with free input shaft) input solid shaft bearings must be lubricated orderly. Automatic lubricator could be used for increasing service life of bearings. This unit includes approximately 20-25 g grease and it supplies fresh grase at every 4000 running hours. PGR recommends, Petamo GHY 133 N type of lubricate should be used. At the same time, fan option is available for cool gear unit to safe operation. For this option contact with PGR..

Automatic lubricator design is used from IEC 160 motor size and greater motor size to least gear units which are for 2 stage reducers PA\PF 62, PD\PM 62 and for 3 stagereducers PA\PF 73, PD\PM 73 and PKD 6390. This unit provides permenant lubrication to bearings. Automatic lubricator must be changed once at year for where gear unit is run 8 hours or lesser at daily operation for other running hours it must be changed every 6 months. Automatilubricator must be actuated before start the reducers.Grease is acceptable between 0°C - 40°C operation conditions. At long-term running and exception from specified ambient temperature special lubricate must be used. Please, consult us.

Under determined operating conditions, IEC with automatic lubricator is not suggested for vertical mounting positions (M2 and M4 mounting positions). For these cases direct motor mounting should be applied. If IEC 160 and greater size will be used at vertical mounting positions, it must becontroled by PGR for suitable and safe operations with considering actual operating conditions. For mounting position M2 (vertical alignment) life cycle of seals are effected badly for that reason maintenance of these reducer must be at shorter times from which maintenance time is etermined at manual. 2 stage reducers up to PA\PF 52, PD\PM 52 and 3 stage reducer up to PA\PF 63, PD\PM 63, PKD 5390 gear units are included seals for bearings as long as their service life. For these gear units maintenance time is valid which time is specified at manual.

Coupling is used for installing motor to IEC adapter. At from IEC 63 to IEC 180, coupling is not safety for important application where person injuries could be occured. But IEC 160-IEC 180 with automatic lubricator and greater size of IEC adapter is safe for application but 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	* Pure Liquids
* Sıvılar ve Katılar	* Liquids and Solids
* Değişken Yoğunluklu Sıvılar	* Liquids - Variable Density
HAVALANDIRMA TERTİBATLARI	BLOWERS
* Santrifüj	* Centrifugal
* Lob	* Lobe
* Pervane	* Vane
MAYALAMA VE DAMITMA	BREWING AND DISTILLING
* Şişeleme Mekanizması	* Bottling Machinery
* Mayalama Kazanları - Kesintisiz İş	* Brew Kettles - Continuous Duty
* Fırınlar, Ocaklar - Kesintisiz İş	* Cookers - Continuous Duty
* Ezme, Karışım Kazanları - Kesintisiz İş	* Mash Tubs - Continuous Duty
* Ölçü Haznesi - Sık Sık Başlama	* Scale Hopper - Frequent Starts
TOPRAK İŞLEME MAKİNELERİ	CLAY WORKING MACHINERY
* Tuğla Presi	* Brick Press
* Briket Makinesi	* Briquette Machine
* Çamur Karma Makinesi	* Pug Mill
KOMPRESÖRLER	COMPRESSORS
* Santrifüj	* Centrifugal
* Lob	* Lobe
* Çok Pistonlu	* Reciprocating, Multi-Cylinder
* Tek Pistonlu	* Reciprocating, Single-Cylinder
KONVEYÖRLER - GENEL MAKSATLI	CONVEYORS - GENERAL PURPOSE
* Üniform Yüklü	* Uniformly Loaded or Fed
* Üniform Yüklü Olmayan	* Not Uniformly fed
* Pistonlu veya Karıştırıcılı	* Reciprocating Or Shaker
VİNÇLER	CRANES
* Kuru Havuz	* Dry Dock
Ana Kaldırma vinci	Main Hoist
Yardımcı Vinç	Auxiliary Hoist
Direkli Vinç	Boom Hoist
Döndürme İşi	Slewing Drive
Çekme İşi	Traction Drive
* Endüstriyel İşi	* Industrial Duty
Ana Kaldırma Vinci	Main Hoist
ASANSÖRLER	ELEVATORS
* Kova	* Bucket
* Santrifuj Boşaltma	* Centrifugal Discharge
* Yürüyen Merdiven	* Escalators
* Taşıma, Nakliye	* Freight
* Yerçekimi Boşaltım	* 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	* Beet Slicer
* Kamış Bıçakları	* Cane Knives
* Kırma Makineleri	* Crushers
TEKSTİL ENDÜSTRİSİ	TEXTILE INDUSTRY
* Harman Ölçer	* Batcher
* Kalenderler	* Calenders
* Şablonlar	* Cards
* Kuru Konserveler	* Dry Cans
* Boyama Makinesi	* Dyeing Machinery
* Dokuma Tezgahları	* Looms
* Çamaşır Sıkma Makinesi - Merdane	* Mangle
* Kaplama	* Napper
* Doldurma Makinesi	* Pads
* Haşıl Makinesi	* Siashers
* Halat Yıkama Makinesi	* Soapers
* Eğirme Makinesi	* Spinners
* Germe Kurutma Makineleri	* Tenter Frames
* Yıkama Makineleri	* Washers
* Masura Sarıcısı	* 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 Food mounted			
PKD A 0290 ... H 5290	**= İki kademeli, helisel konik dişlili redüktör** Helical bevel gearboxes, Double reduction	**TMA...**	**= Ayak montajlı, Tek mil çıkışlı** Foot mounted, Solid shaft
PKD 1390 ... PKD G 9390	**= Üç kademeli, helisel konik dişlili redüktör** Helical bevel gearboxes, Triple reduction	**DA...**	**= Ayak montajlı, Delik milli** Foot mounted, Hollow shaft
PKD 1490 ... PKD 5490	**= Dört kademeli, helisel konik dişlili redüktör** Helical bevel gearboxes Quadruple reduction	**ÇMA...**	**= Ayak montajlı, Çift mil çıkışlı,** Foot mounted, Solid shaft on both sides.
PKD 6390/32 ... PKD G 9390/62	**= Beş kademeli, helisel konik dişlili redüktör** Helical bevel gearboxes, Quintuple reduction	**DA/KS...**	**= Ayak montajlı, Delik milli, Konik sıktırmalı** Foot mounted, Hollow shaft, Shrink disc connector
		TMA/B5...	**= Ayak montajlı,Tek mil çıkışlı, B5 flanşlı** Foot mounted, Solid shaft, Flange B5
		DA/B5...	**= Ayak montajlı, Delik milli, B5 flanşlı** Foot mounted, Hollow shaft, Flange B5
		DA/KS-B5...	**= Ayak montajlı, Delik milli, Konik sıktırmalı, B5 flanşlı** Foot mounted, Hollow shaft, Shrink disc connector, Flange B5
		TMA/B14...	**= Ayak montajlı, Tek mil çıkışlı, B14 flanşlı** Foot mounted, Solid shaft, Flange B14
		DA/B14...	**= Ayak montajlı, Delik milli, B14 flanşlı** Foot mounted, Hollow shaft, Flange B14
		ÇMA/B14...	**= Ayak montajlı, Çift mil çıkışlı, B14 flanşlı** Foot mounted, Solid shaft on both sides , Flange B14
		DA/KS-B14...	**= Ayak montajlı, Delik milli, Konik sıktırmalı, B14 flanşlı** Foot mounted, Hollow shaft, Shrink disc connector, Flange B14
		DG/B14...	**= Gövdeden montajlı, Delik milli, B14 flanşlı** Case mounted, Hollow shaft, Flange B14
		DG/KS-B14...	**= Gövdeden montajlı, Delik milli, Konik sıktırmalı, B14 flanşlı** Case mounted, Hollow shaft, Shrink disk connector, Flange B14
		DG/TK...	**= Gövdeden montajlı, Delik milli, Tork kollu** Case mounted, Hollow shaft, Torque arm
		DG/KS-TK...	**= Gövdeden montajlı, Delik milli, Konik sıktırmalı, Tork kollu** Case mounted, Hollow shaft, Shrink disc connector, Torque arm
		DG/TKP-B14...	**= Gövdeden montajlı, Delik milli,** **Tork kolu platformu B14 flanşlı** Case mounted, Hollow shaft, Torque arm platform, Flange B14
		DG/KS-TKP-B14...	**= Gövdeden montajlı, Delik milli, Konik sıktırmalı,** **Tork kolu platformu, B14 flanşlı** Case mounted, Hollow shaft, Shrink disc connector Torque arm platform, Flange B14
		TMG/B5...	**= Gövdeden montajlı, Tek mil çıkışlı, B5 flanşlı** Case mounted, Solid shaft, Flange B5
		DG/B5...	**= Gövdeden montajlı, Delik milli, B5 flanşlı** Case mounted, Hollow shaft, Flange B5
		DG/KS-B5...	**= Gövdeden montajlı, Delik milli, Konik sıktırmalı, B5 flanşlı** Case mounted, Hollow shaft, Shrink disc connector, Flange B5
		TMG/B14...	**= Gövdeden montajlı, Tek mil çıkışlı, B14 flanşlı** Case mounted, Solid shaft, Flange B14
Gövdeden montajlı Case mounted			
PKD A 0290 ... PKD H 5290	**= İki kademeli, helisel konik dişlili redüktör** Helical bevel gearboxes, Double reduction		
PKD 1390 ... PKD G 9390	**= Üç kademeli, helisel konik dişlili redüktör** Helical bevel gearboxes, Triple reduction		
PKD 1490 ... PKD 5490	**= Dört kademeli, helisel konik dişlili redüktör** Helical bevel gearboxes, Quadruple reduction		
PKD 6390/32 ... PKD G 9390/62	**= Beş kademeli, helisel konik dişlili redüktör** Helical bevel gearboxes, Quintuple reduction		
Gövdeden montajlı, B5 flanşlı Case mounted, Flange B5			
PKD A 0290 ... PKD H 5290	**= İki kademeli, helisel konik dişlili redüktör** Helical bevel gearboxes, Double reduction		
PKD 1390 ... PKD G 9390	**= Üç kademeli, helisel konik dişlili redüktör** Helical bevel gearboxes, Triple reduction		
PKD 1490 ... PKD 5490	**= Dört kademeli, helisel konik dişlili redüktör** Helical bevel gearboxes, Quadruple reduction		
PKD 6390/32 ... PKD G 9390/62	**= Beş kademeli, helisel konik dişlili redüktör** Helical bevel gearboxes, Quintuple reduction		

TR KULLANILAN TERİMLER

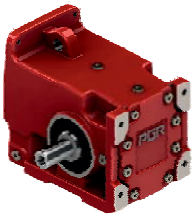
EN NOMENCLATURE

Giriş Aksamları Input Options	Motor Motor	Kutup Numarası Number of Poles	Motor Seçenekleri Motor Options
W = Motorsuz girişli redüktörler için aksam = With free input shaft **IEC = DIN 42677' ye göre standart motorlar için aksamlar** = For assembly with IEC standard motors acc. to DIN 42677 **T = Turbo kaplin** = Turbo coupling	**Üç fazlı motor Motor boyutu 63 - 315** Three phase motor Motor size 63 - 315 **EExell = Patlamaya karşı güvenliği arttırılmış üç fazlı motor** = Explosion proof three phase motor increased safety	**2 = 2 Kutuplu** = 2 - Poles **4 = 4 Kutuplu** = 4 - Poles **6 = 6 Kutuplu** = 6 - Poles **4 - 2 = 1:2 oranında hız değiştirici dahlander bağlantısı** = Pole changing 1:2 Dahlander connection **8 - 2 = 1:4 oranında hız değiştirici ayrılmış sarmal dizilişli** = Pole changing 1:4 Separate windings **Diğer kutup kombinasyonları talep karşısında karşılanacaktır** Other pole combinations on request	**BRE = Frenli** = With brake **EF = Tek fazlı, fanlı** = Separate fan, single phase **ZF = Çift fazlı, fanlı** = Separate fan, double phase **DF = Üç fazlı, fanlı** = Separate fan, three phase **IG = Enkoderli** = With encoder **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 PKD MODÜLER SİSTEMİ

EN MODULAR SYSTEM OF PKD

İKİ KADEME / DOUBLE REDUCTION



PKD TMA / B14

Konik Dişlili
Ayak Montajlı
Helical Bevel Gear
Foot Mounted

24 - 27

PKD DG / B14

Konik Dişlili,
Gövdeden Montajlı
Helical Bevel Gear,
Case Mounted

28 - 31

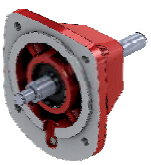
Elektrik Motoru (Frenli)
Electric Motor (With Brake)

Elektrik Motoru (Frensiz)
Electric Motor (None Brake)

Elektrik Motoru (Frenli)
Electric Motor (With Brake)

IEC Adaptörü
IEC Adapter

Elektrik Motoru (Frensiz)
Electric Motor (None Brake)

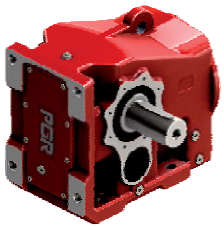


W Kovanı
Free Input Shaft

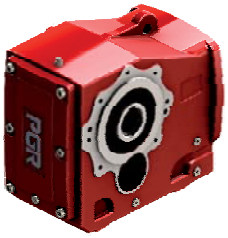
TR PKD MODÜLER SİSTEMİ

EN MODULAR SYSTEM OF PKD

ÜÇ KADEME / TRIPLE REDUCTION



PKD TMA / B14
Konik Dişlili
Ayak Montajlı
Helical Bevel Gear
Foot Mounted
26 - 31



PKD DG / B14
Konik Dişlili,
Gövdeden Montajlı
Helical Bevel Gear,
Case Mounted
32 - 38

PKD TMG / B5
Konik Dişlili, Gövdeden
Montajlı, B5 Flanşlı
Helical Bevel Gear, Case
Mounted, B5 Flange
32 - 38

Elektrik Motoru (Frenli)
Electric Motor (With Brake)

Elektrik Motoru (Frensiz)
Electric Motor (None Brake)

Helisel Dişlili İndirgeç
Helical Reduction Gearcase

Helisel Dişlili Flanşlı Redüktör
Helical Gearbox Flange Mounted

IEC Adaptörü
IEC Adapter

W Kovanı
Free Input Shaft

Elektrik Motoru (Frenli)
Electric Motor (With Brake)

Elektrik Motoru (Frensiz)
Electric Motor (None Brake)

W Kovanı
Free Input Shaft

IEC Adaptörü
IEC Adapter

Elektrik Motoru (Frenli)
Electric Motor (With Brake)

Elektrik Motoru (Frensiz)
Electric Motor (None Brake)

TR MEVCUT DİZAYNLARA GENEL BAKIŞ

EN OVERVIEW TO AVAILABLE DESIGNS

Kısaltmalar Abbrev.	Anlamı Meaning	Helisel Konik Dişlili Redüktör Helical Bevel Gear Units
DG/B5	**Gövdeden montajlı, Delik milli, B5 flanşlı** / Case mounted, Hollow shaft, Flange B5	✓ (2)
DA	**Ayak montajlı, Delik milli,** / Foot mounted, Hollow shaft,	✓
DA/B5	**Ayak montajlı, Delik milli, B5 flanşlı** / Foot mounted, Hollow shaft, Flange B5	✓ (1)
DA/B14	**Ayak montajlı, Delik milli, B14 flanşlı** / Foot mounted, Hollow shaft, Flange B14	✓
DG/B14	**Gövdeden montajlı, Delik milli, B14 flanşlı** / Case mounted, Hollow shaft, Flange B14	✓ (2)
DG/TK	**Gövdeden montajlı, Delik milli, Tork kollu** / Case mounted, Hollow shaft, Torque arm	✓ (1) (2)
DG/TKP-B14	**Gövdeden montajlı, Delik milli, Tork kolu platformu, B14 flanşlı** / Case mounted, Hollow shaft, Torque arm console, Flange B14	✓ (2)
Ç	**Çektirme elementli** / Fixing elements for hollow shaft	✓
DIN 5480	**Kayıcılı delik milli DIN 5480** / Splined hollow shaft, DIN 5480	✓
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	✓
GKS	**Güçlendirilmiş konik sıktırma** / Hollow shaft with reinforced shrink disc	✓
TMG/B5	**Gövdeden montajlı, Tek mil çıkışlı, B5 flanşlı** / Case mounted, Solid shaft, Flange B5	✓ (2)
GR	**Güçlendirilmiş rulman** / Reinforced bearing	✓
GB5	**Güçlendirilmiş B5 Flanşı** / Agitator design	✓
TMA/B5	**Ayak montajlı, Tek mil çıkışlı, B5 flanşlı** / Foot mounted, Solid shaft, Flange B5	✓
TMA	**Ayak montajlı, Tek mil çıkışlı** / Foot mounted, Solid shaft	✓
TMG/B14	**Gövdeden montajlı, Tek mil çıkışlı, B14 flanşlı** / Case Mounted, Solid shaft, Flange B14	✓ (2)
W	**W kovanı** / Free input shaft	✓

✓ Mevcut tasarımlar onay işareti ile belirtilmiştir.

1-) PKD 7390 (dahil)' a kadar mevcuttur.
2-) Gövdenin alt kısmında ilave diş açılmış delikler mevcuttur. Bu delikler redüktörün montajı için değildir.

✓ Sign is presented which designs are existed for gear units.

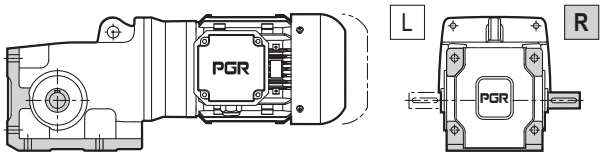
1) This designs exist for PKD 7390 and lesser case
2) This number shows, there are threaded holes at the bottom of gear unit but these are not used for installation

TR ÜRÜNLERİMİZ

EN PRODUCTS

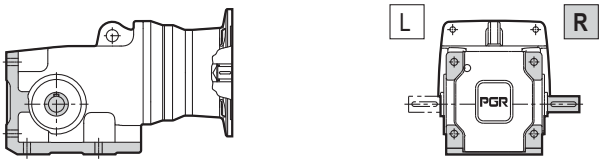
1) PKD B 0290... TMA - 63 M / 4 R

Tek mil çıkışlı, Ayak montajlı, İki kademeli, Helisel konik dişlili, Motorlu redüktör
Helical bevel gear unit, Solid shaft, Foot mounted, Double reduction, With motor



PKD B 0290... TMA - IEC 63 R

Tek mil çıkışlı, Ayak montajlı, İki kademeli, Helisel konik dişlili, IEC adaptörlü redüktör
Helical bevel gear unit, Solid shaft, Foot mounted, Double reduction, With IEC adapter

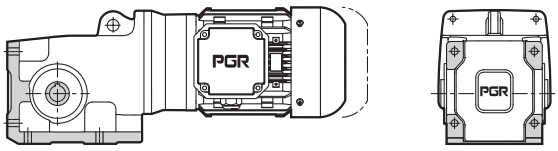


PKD B 0290... TMA - W R

Tek mil çıkışlı, Ayak montajlı, İki kademeli, Helisel konik dişlili, W kovanlı redüktör
Helical bevel gear unit, Solid shaft, Foot mounted, Double reduction, With free input shaft

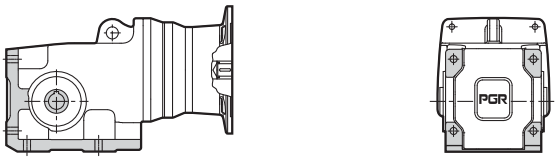
2) PKD B 0290... DA - 63 M / 4

Delik milli, Ayak montajlı, İki kademeli, Helisel konik dişlili, Motorlu redüktör
Helical bevel gear unit, Hollow shaft, Foot mounted, Double reduction, With motor



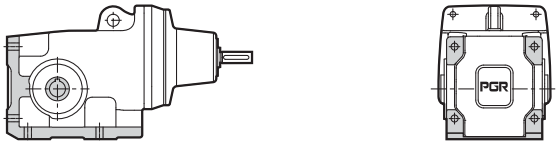
PKD B 0290... DA - IEC 63

Delik milli, Ayak montajlı, İki kademeli, Helisel konik dişlili, IEC adaptörlü redüktör
Helical bevel gear unit, Hollow shaft, Foot mounted, Double reduction, With IEC adapter



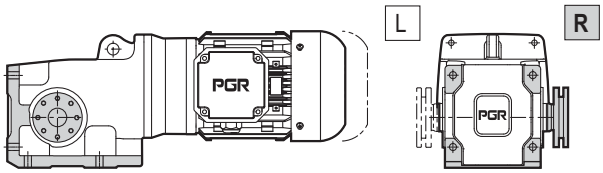
PKD B 0290... DA - W

Delik milli, Ayak montajlı, İki kademeli, Helisel konik dişlili, W kovanlı redüktör
Helical bevel gear unit, Hollow shaft, Foot mounted, Double reduction, With free input shaft



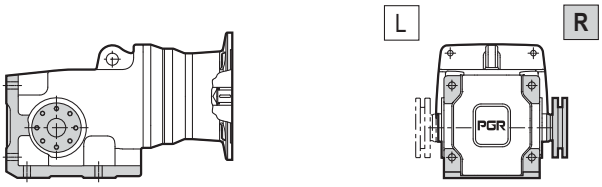
3) PKD B 0290... DA / KS - 63 M / 4 R

Delik milli, Ayak montajlı, Konik sıktırmalı, İki kademeli, Helisel konik dişlili, Motorlu redüktör
Helical bevel gear unit, Hollow shaft, Foot mounted, Shrink disc connector, Double reduction, With motor



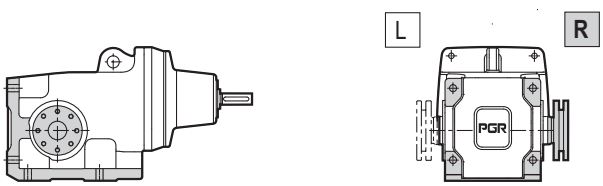
PKD B 0290... DA / KS - IEC 63 R

Delik milli, Ayak montajlı, Konik sıktırmalı, İki kademeli, Helisel konik dişlili, IEC adaptörlü redüktör
Helical bevel gear unit, Hollow shaft, Foot mounted, Shrink disc connector, Double reduction, With IEC adapter



PKD B 0290... DA / KS - W R

Delik milli, Ayak montajlı, Konik sıktırmalı, İki kademeli, Helisel konik dişlili, W kovanlı redüktör
Helical bevel gear unit, Hollow shaft, Foot mounted, Shrink disc connector, Double reduction, With free input shaft



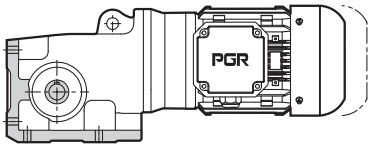
Not : L ve R çıkış yönünü göstermektedir.
Note: L and R shows that output direction.

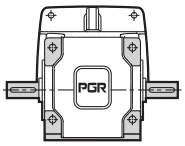
TR ÜRÜNLERİMİZ

EN PRODUCTS

4) PKD B 0290... ÇMA - 63 M / 4

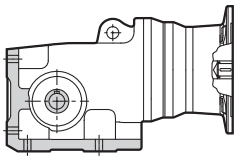
Çift mil çıkışlı, Ayak montajlı, İki kademeli, Helisel konik dişlili, Motorlu redüktör
Helical bevel gear unit, Solid shaft on both sides, Foot mounted, Double reduction, With motor

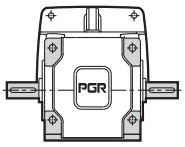




PKD B 0290... ÇMA - IEC 63

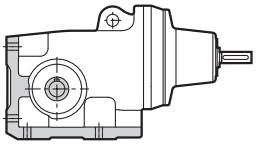
Çift mil çıkışlı, Ayak montajlı, İki kademeli, Helisel konik dişlili, IEC adaptörlü redüktör
Helical bevel gear unit, Solid shaft, Foot mounted, Double reduction, With IEC adapter

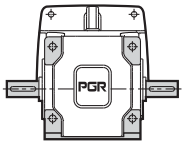




PKD B 0290... ÇMA - W

Çift mil çıkışlı, Ayak montajlı, İki kademeli, Helisel konik dişlili, W kovanlı redüktör
Helical bevel gear unit, Solid shaft on both sides, Foot mounted, Double reduction, With free input shaft





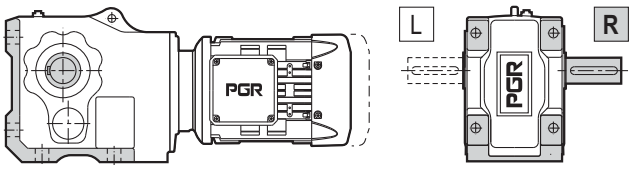
Not : L ve R çıkış yönünü göstermektedir.
Note: L and R shows that output direction.

TR ÜRÜNLERİMİZ

EN PRODUCTS

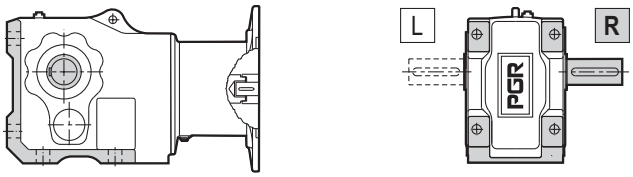
1) PKD 1390... TMA - 63 M / 4 R

Tek mil çıkışlı, Ayak montajlı, Üç kademeli, Helisel konik dişlili, Motorlu redüktör
Helical bevel gear unit, Solid shaft, Foot mounted, Triple reduction, With motor



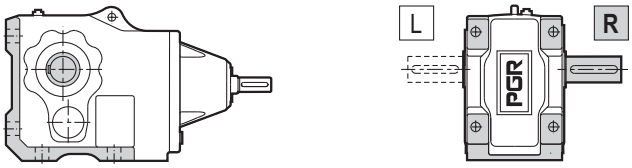
PKD 1390... TMA - IEC 63 R

Tek mil çıkışlı, Ayak montajlı, Üç kademeli, Helisel konik dişlili, IEC adaptörlü redüktör
Helical bevel gear unit, Solid shaft, Foot mounted, Triple reduction, With IEC adapter



PKD 1390... TMA - W R

Tek mil çıkışlı, Ayak montajlı, Üç kademeli, Helisel konik dişlili, W kovanlı redüktör
Helical bevel gear unit, Solid shaft, Foot mounted, Triple reduction, With free input shaft



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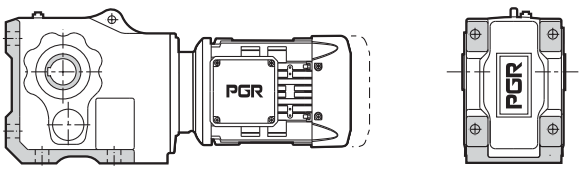
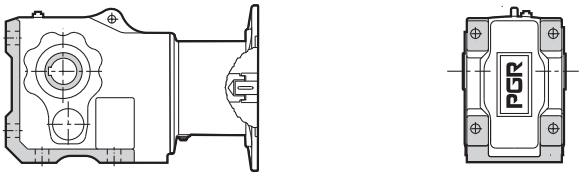
2) PKD 1390... DA - 63 M / 4

Delik milli, Ayak montajlı, Üç kademeli, Helisel konik dişlili, Motorlu redüktör
Helical bevel gear unit, Hollow shaft, Foot mounted, Triple reduction, With motor



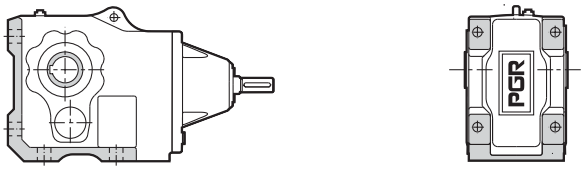
PKD 1390... DA - IEC 63

Delik milli, Ayak montajlı, Üç kademeli, Helisel konik dişlili, W kovanlı redüktör
Helical bevel gear unit, Hollow shaft, Foot mounted, Triple reduction, With free input shaft



PKD 1390... DA - W

Delik milli, Ayak montajlı, İki kademeli, Helisel konik dişlili, W kovanlı redüktör
Helical bevel gear unit, Hollow shaft, Foot mounted, Double reduction, With free input shaft



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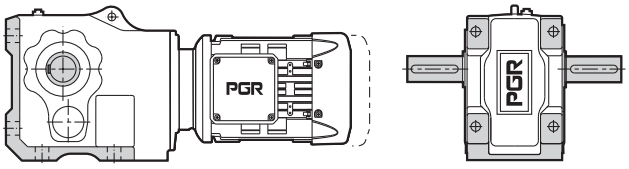
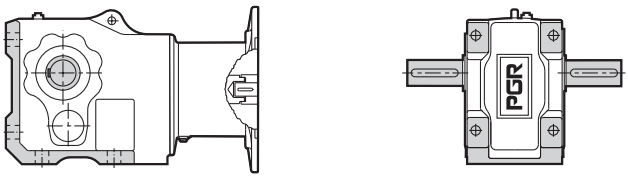
3) PKD 1390... ÇMA - 63 M / 4

Çift mil çıkışlı, Ayak montajlı, Üç kademeli, Helisel konik dişlili, Motorlu redüktör
Helical bevel gear unit, Solid shaft on both sides, Foot mounted, Triple reduction, With motor



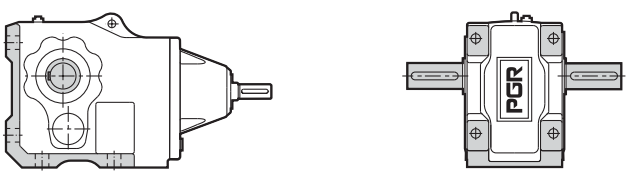
PKD 1390... ÇMA - IEC 63

Çift mil çıkışlı, Ayak montajlı, Üç kademeli, Helisel konik dişlili, IEC adaptörlü redüktör
Helical bevel gear unit, Solid shaft on both sides, Foot mounted, Triple reduction, With IEC adapter



PKD 1390... ÇMA - W

Çift mil çıkışlı, Ayak montajlı, Üç kademeli, Helisel konik dişlili, W kovanlı redüktör
Helical bevel gear unit, Solid shaft on both sides, Foot mounted, Triple reduction, With free input shaft



Not : L ve R çıkış yönünü göstermektedir.
Note: L and R shows that output direction.

TR ÜRÜNLERİMİZ

EN PRODUCTS

4) **PKD 1390... DA / KS -** 63 M / 4 **R**

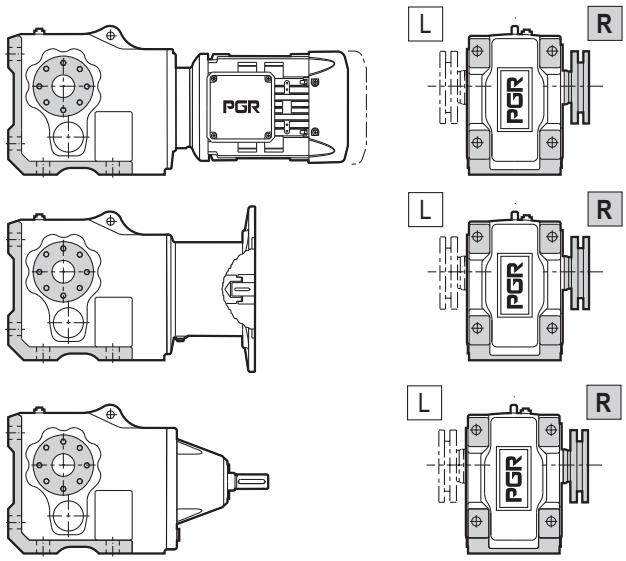
Delik milli, Ayak montajlı, Konik sıktırmalı,
Üç kademeli, Helisel konik dişlili, Motorlu redüktör
Helical bevel gear unit, Hollow shaft, Foot mounted,
Shrink disc connector, Triple reduction, With motor

PKD 1390... DA / KS - IEC 63 **R**

Delik milli, Ayak montajlı, Konik sıktırmalı,
Üç kademeli, Helisel konik dişlili, IEC adaptörlü redüktör
Helical bevel gear unit, Hollow shaft, Foot mounted,
Shrink disc connector, Triple reduction, With IEC adapter

PKD 1390... DA / KS - W **R**

Delik milli, Ayak montajlı, Konik sıktırmalı,
Üç kademeli, Helisel konik dişlili, W kovanlı redüktör
Helical bevel gear unit, Hollow shaft, Foot mounted, Shrink
disc connector, Triple reduction, With free input shaft



5) **PKD 1390... TMA / B5 -** 63 M / 4 **R**

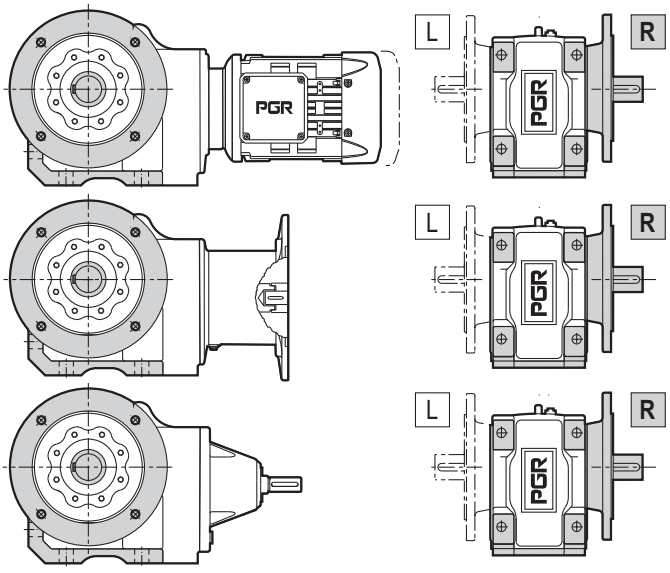
Tek mil çıkışlı, Ayak montajlı, B5 flanşlı,
Üç kademeli Helisel konik dişlili, Motorlu redüktör
Helical bevel gear unit, Solid shaft, Foot mounted,
Flange B5, Triple reduction, With motor

PKD 1390... TMA / B5 - IEC 63 **R**

Tek mil çıkışlı, Ayak montajlı, B5 flanşlı, Üç kademeli,
Helisel konik dişlili, IEC adaptörlü redüktör
Helical bevel gear unit, Solid shaft, Foot mounted,
Flange B5, Triple reduction, With IEC adapter

PKD 1390... TMA / B5 - W **R**

Tek mil çıkışlı, Ayak montajlı, B5 flanşlı,
Üç kademeli, Helisel konik dişlili, W kovanlı redüktör
Helical bevel gear unit, Solid shaft, Foot mounted,
Flange B5, Triple reduction, With free input shaft



6) **PKD 1390... DA / B5** - 63 M / 4 **R**

Delik milli, Ayak montajlı, B5 flanşlı,
Üç kademeli, Helisel konik dişlili, Motorlu redüktör
Helical bevel gear unit, Hollow shaft, Foot mounted,
Flange B5, Triple reduction, With motor

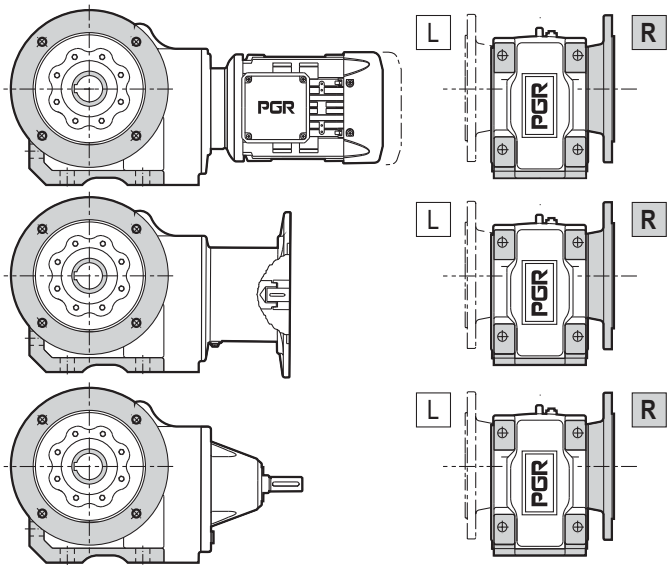
PKD 1390... DA / B5 - IEC 63 **R**

Delik milli, Ayak montajlı, B5 flanşlı, Üç kademeli,
Helisel konik dişlili, IEC adaptörlü redüktör
Helical bevel gear unit, Hollow shaft, Foot mounted,
Flange B5, Triple reduction, With IEC adapter

PKD 1390... DA / B5 - W **R**

Delik milli, Ayak montajlı, B5 flanşlı, Üç kademeli,
Helisel konik dişlili, W kovanlı redüktör
Helical bevel gear unit, Hollow shaft, Foot mounted,
Flange B5, Triple reduction, With free input shaft

Not : L ve R çıkış yönünü göstermektedir.
Note: L and R shows that output direction.

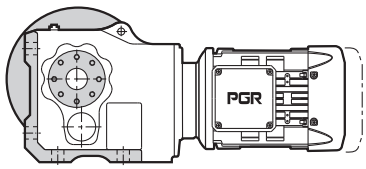


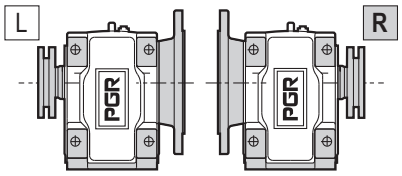
TR ÜRÜNLERİMİZ

EN PRODUCTS

7) PKD 1390... DA / KS-B5 - 63 M / 4 R

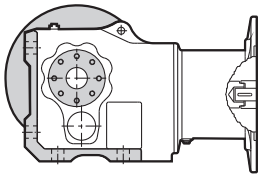
Delik milli, 0 Ayak montajlı, Konik sıktırmalı, B5 flanşlı, Üç kademeli, Helisel konik dişlili, Motorlu redüktör
Helical bevel gear unit, Hollow shaft, Foot mounted, Shrink disc connector, Flange B5, Triple reduction, With motor

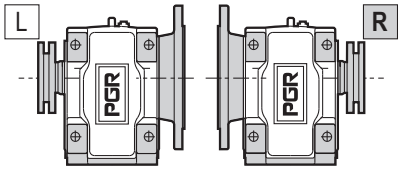




PKD 1390... DA / KS-B5 - IEC 63 R

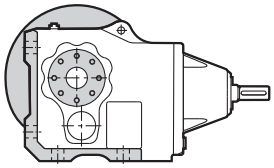
Delik milli, Ayak montajlı, Konik sıktırmalı, B5 flanşlı, Üç kademeli, Helisel konik dişlili, IEC adaptörlü redüktör
Helical bevel gear unit, Hollow shaft, Foot mounted, Shrink disc connector, Flange B5, Triple reduction, With IEC adapter

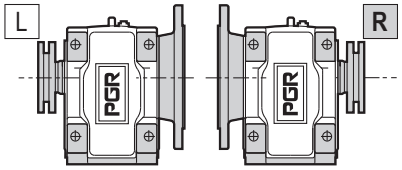




PKD 1390... DA / KS-B5 - W R

Delik milli, Ayak montajlı, Konik sıktırmalı, B5 flanşlı, Üç kademeli, Helisel konik dişlili,W kovanlı redüktör
Helical bevel gear unit, Hollow shaft, Foot mounted, Shrink disc connector, Flange B5, Triple reduction, With free input shaft





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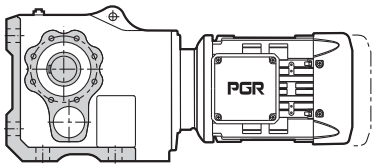
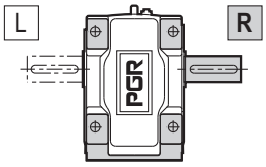
8) PKD 1390... TMA / B14 - 63 M / 4 R

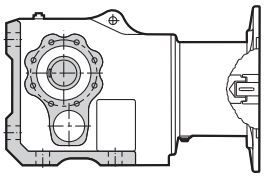
Tek mil çıkışlı, Ayak montajlı, Üç kademeli, B14 flanşlı, Helisel konik dişlili, Motorlu redüktör
Helical bevel gear unit, Solid shaft, Foot mounted, Triple reduction, Flange B14, With motor

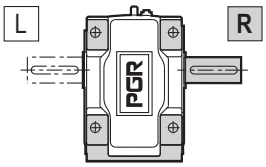




PKD 1390... TMA / B14 - IEC 63 R

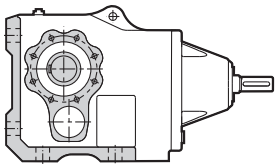
Tek mil çıkışlı, Ayak montajlı, Üç kademeli, B14 flanşlı, Helisel konik dişlili, IEC adaptörlü redüktör
Helical bevel gear unit, Solid shaft, Foot mounted, Triple reduction, Flange B14, With IEC adapter

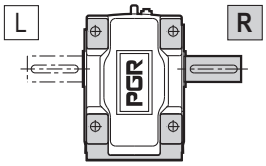




PKD 1390... TMA / B14 - W R

Tek mil çıkışlı, Ayak montajlı, Üç kademeli, B14 flanşlı, Helisel konik dişlili, W kovanlı redüktör





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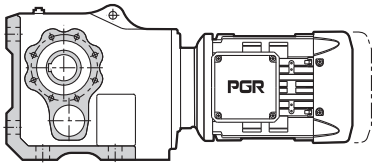
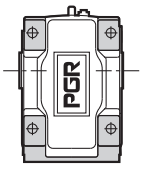
9) PKD 1390... DA / B14 - 63 M / 4

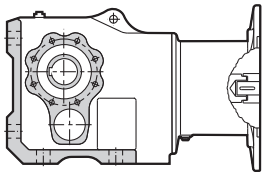
Delik milli, Ayak montajlı, Üç kademeli,B14 flanşlı, Helisel konik dişlili, Motorlu redüktör
Helical bevel gear unit, Hollow shaft, Foot mounted, Triple reduction, Flange B14, With motor

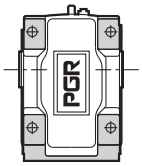




PKD 1390... DA / B14 - IEC 63

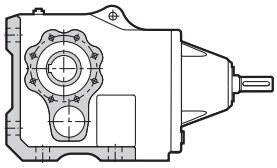
Delik milli, Ayak montajlı, Üç kademeli, B14 flanşlı, Helisel konik dişlili, IEC adaptörlü redüktör
Helical bevel gear unit, Hollow shaft, Foot mounted, Triple reduction, Flange B14, With IEC adapter

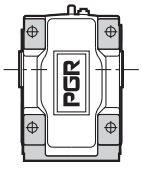




PKD 1390... DA / B14 - W

Delik milli, Ayak montajlı, Üç kademeli, B14 flanşlı, Helisel konik dişlili, W kovanlı redüktör
Helical bevel gear unit, Hollow shaft, Foot mounted, Triple reduction, Flange B14, With free input shaft





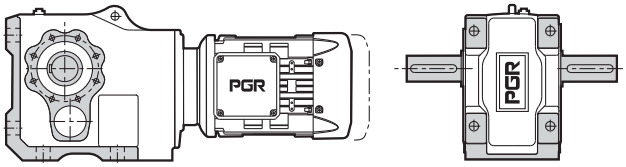
Not : L ve R çıkış yönünü göstermektedir.
Note: L and R shows that output direction.

TR ÜRÜNLERİMİZ

EN PRODUCTS

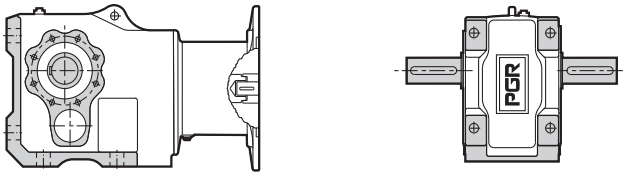
10) PKD 1390... ÇMA / B14 - 63 M / 4

Çift mil çıkışlı, Ayak montajlı, Üç kademeli, B14 Flanşlı, Helisel konik dişlili, Motorlu redüktör
Helical bevel gear unit, Solid shaft on both sides, Foot mounted, Triple reduction, Flange B14, With motor



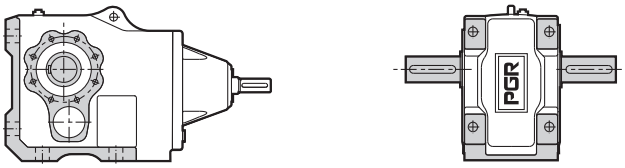
PKD 1390... ÇMA / B14 - IEC 63

Çift mil çıkışlı, Ayak montajlı, Üç kademeli, B14 Flanşlı, Helisel konik dişlili, IEC adaptörlü redüktör
Helical bevel gear unit, Solid shaft on both sides, Foot mounted, Triple reduction, Flange B14, With IEC



PKD 1390... ÇMA / B14 - W

Çift mil çıkışlı, Ayak montajlı, Üç kademeli, B14 Flanşlı, Helisel konik dişlili, W kovanlı redüktör
Helical bevel gear unit, Solid shaft on both sides, Foot mounted, Triple reduction, Flange B14, With free input shaft



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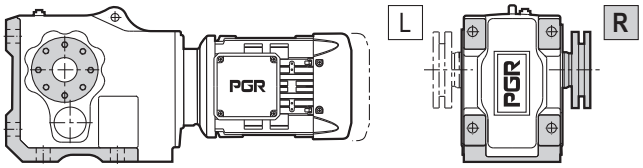
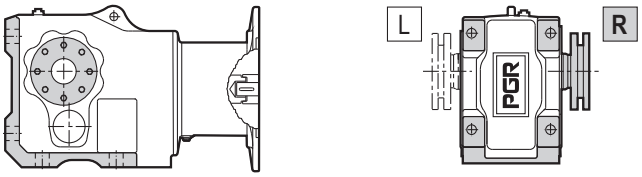
11) PKD 1390... DA / KS-B14 - 63 M / 4 R

Delik milli, Ayak montajlı, Konik sıktırmalı, Üç kademeli, B14 flanşlı, Helisel konik dişlili, Motorlu redüktör
Helical bevel gear unit, Hollow shaft, Foot mounted, Shrink disc connecter, Triple reduction, Flange B14, With motor



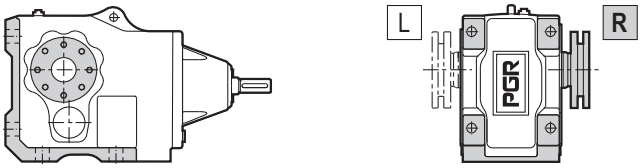
PKD 1390... DA / KS-B14 - IEC 63 R

Delik milli, Ayak montajlı, Konik sıktırmalı, Üç kademeli, B14 flanşlı, Helisel konik dişlili, IEC adaptörlü redüktör
Helical bevel gear unit, Hollow shaft, Foot mounted, Shrink disc connecter, Triple reduction, Flange B14, With IEC adapter



PKD 1390... DA / KS-B14 - W R

Delik milli, Ayak montajlı, Konik sıktırmalı, Üç kademeli, B14 flanşlı, Helisel konik dişlili, W kovanlı redüktör
Helical bevel gear unit, Hollow shaft, Foot mounted, Shrink disc connecter, Triple reduction, Flange B14, With free input shaft



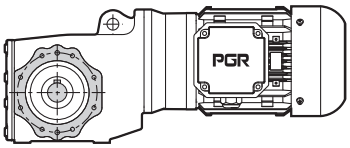
Not : L ve R çıkış yönünü göstermektedir.
Note: L and R shows that output direction.

TR ÜRÜNLERİMİZ

EN PRODUCTS

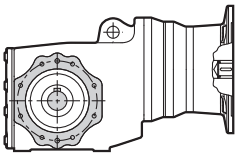
1) PKD B 0290... DG / B14 - 63 M / 4

Delik milli, Gövdeden montajlı, İki kademeli, B14 flanşlı, Helisel konik dişlili, Motorlu redüktör
Helical bevel gear unit, Hollow shaft, Case mounted, Double reduction, Flange B14, With motor



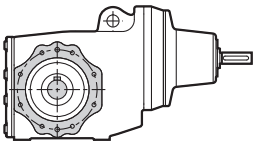
PKD B 0290... DG / B14 - IEC 63

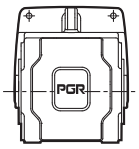
Delik milli, Gövdeden montajlı, İki kademeli, B14 flanşlı, Helisel konik dişlili, IEC adaptörlü redüktör
Helical bevel gear unit, Hollow shaft, Case mounted, Double reduction, Flange B14, With IEC adapter



PKD B 0290... DG / B14 - W

Delik Milli, Gövdeden Montajlı, İki Kademeli, B14 flanşlı, Helisel konik dişlili, W kovanlı redüktör
Helical bevel gear unit, Hollow shaft, Case mounted, Double reduction, Flange B14, With free input shaft





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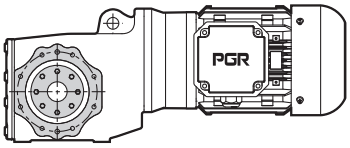
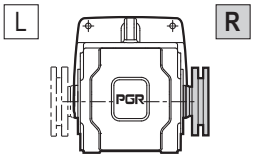
2) PKD B 0290... DG / KS-B14 - 63 M / 4 R

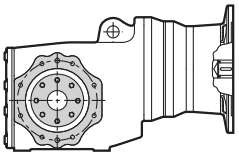
Delik milli, Gövdeden montajlı, Konik sıktırmalı, İki kademeli, B14 flanşlı, Helisel konik dişlili, Motorlu redüktör
Helical bevel gear unit, Hollow shaft, Case mounted, Shrink disc connector, Double reduction, Flange B14, With motor.

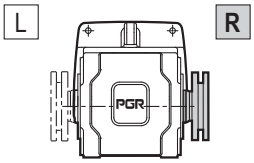




PKD B 0290... DG / KS-B14 - IEC 63 R

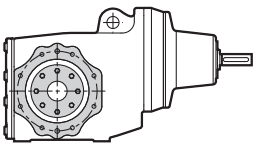
Delik milli, Gövdeden montajlı, Konik sıktırmalı, İki kademeli, B14 flanşlı, Helisel konik dişlili, IEC adaptörlü redüktör
Helical bevel gear unit, Hollow shaft, Case mounted, Shrink disc connector, Double reduction, Flange B14, With IEC adapter

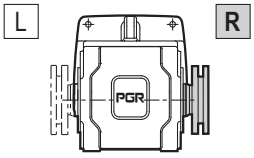




PKD B 0290... DG / KS-B14 - W R

Delik milli, Gövdeden montajlı, Konik sıktırmalı, İki kademeli, B14 flanşlı, Helisel konik dişlili, W kovanlı redüktör
Helical bevel gear unit, Hollow shaft, Case mounted, Shrink disc connector, Double reduction, Flange B14, With free input shaft





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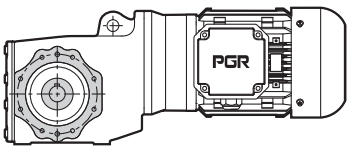
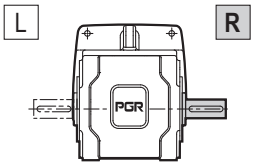
3) PKD B 0290... TMG / B14 - 63 M / 4 R

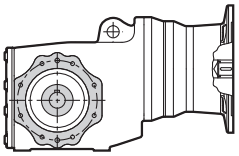
Tek mil çıkışlı, Gövdeden montajlı, İki kademeli, B14 flanşlı, Helisel konik dişlili, Motorlu redüktör
Helical bevel gear unit, Solid shaft, Case mounted, Double reduction, Flange B14, With motor

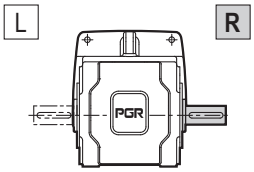




PKD B 0290... TMG / B14 - IEC 63 R

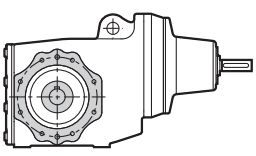
Tek mil çıkışlı, Gövdeden montajlı, İki kademeli, B14 flanşlı, Helisel konik dişlili, IEC adaptörlü redüktör
Helical bevel gear unit, Solid shaft, Case mounted, Double reduction, Flange B14, With IEC adapter

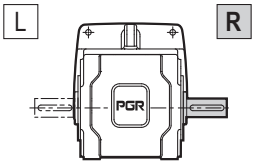




PKD B 0290... TMG / B14 - W R

Tek mil çıkışlı, Gövdeden montajlı, İki kademeli, B14 flanşlı, Helisel konik dişlili, W kovanlı redüktör
Helical bevel gear unit, Solid shaft, Case mounted, Double reduction, Flange B14, With free input shaft





Not : L ve R çıkış yönünü göstermektedir.
Note: L and R shows that output direction.

TR ÜRÜNLERİMİZ

EN PRODUCTS

4) PKD B 0290... TMG / B5 - 63 M / 4

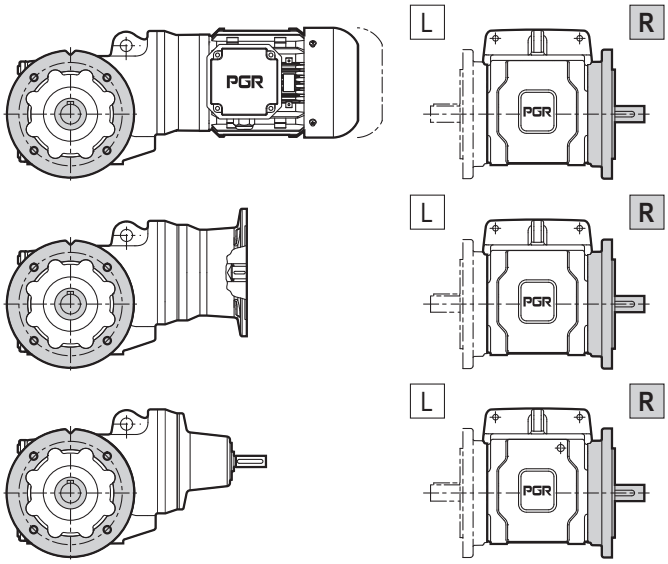
Tek mil çıkışlı, Gövdeden montajlı, B5 flanşlı,
İki kademeli, Helisel konik dişlili, Motorlu redüktör
Helical bevel gear unit, Solid shaft, Case mounted,
Flange B5, Double reduction, With motor

PKD B 0290... TMG / B5 - IEC 63

Tek mil çıkışlı, Gövdeden montajlı, B5 flanşlı,
İki kademeli, Helisel konik dişlili, IEC adaptörlü redüktör
Helical bevel gear unit, Solid shaft, Case mounted,
Flange B5, Double reduction, With IEC adapter

PKD B 0290... TMG / B5 - W

Tek mil çıkışlı, Gövdeden montajlı, B5 flanşlı,
İki kademeli, Helisel konik dişlili, W kovanlı redüktör
Helical bevel gear unit, Solid shaft, Case mounted,
Flange B5, Double reduction, With free input shaft



5) PKD B 0290... DG / B5 - 63 M / 4 **R**

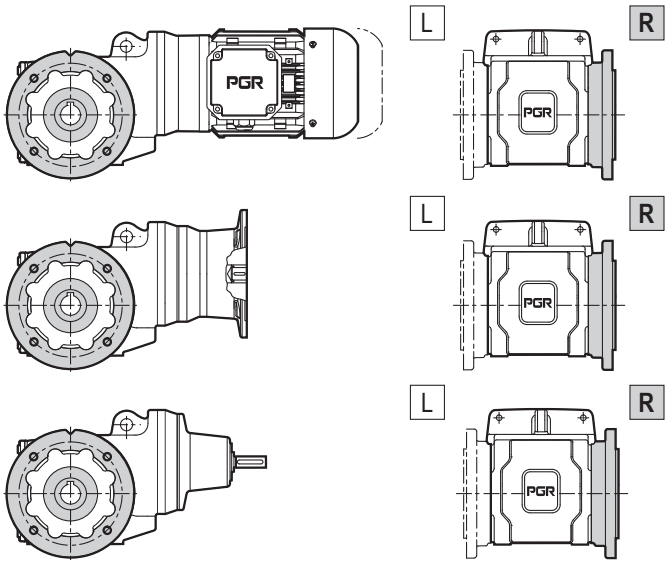
Delik milli, Gövdeden montajlı, B5 flanşlı,
İki kademeli, Helisel konik dişlili, Motorlu redüktör
Helical bevel gear unit, Hollow shaft, Case mounted,
Flange B5, Double reduction, With motor

PKD B 0290... DG / B5 - IEC 63 **R**

Delik milli, Gövdeden montajlı, B5 flanşlı, İki kademeli,
Helisel konik dişlili, IEC adaptörlü redüktör
Helical bevel gear unit, Hollow shaft, Case mounted,
Flange B5, Double reduction, With IEC adapter

PKD B 0290... DG / B5 - W **R**

Delik milli, Gövdeden montajlı, B5 flanşlı, İki kademeli,
Helisel konik dişlili, W kovanlı redüktör
Helical bevel gear unit, Hollow shaft, Case mounted,
Flange B5, Double reduction, With free input shaft



6) PKD B 0290... DG / KS-B5 - 63 M / 4 **R**

Delik milli, Gövdeden montajlı, Konik sıktırmalı, B5 flanşlı,
İki kademeli, Helisel konik dişlili, Motorlu redüktör
Helical bevel gear unit, Hollow shaft, Case mounted,
Shrink disc connector, Flange B5, Double reduction, With motor

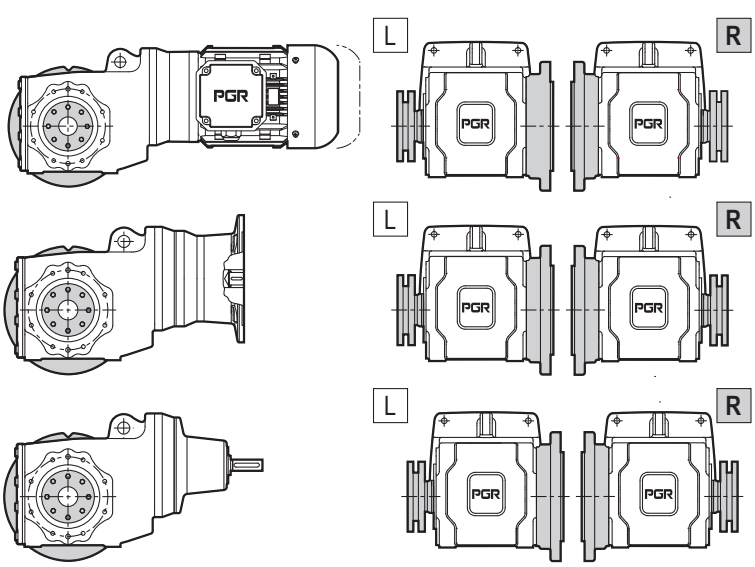
PKD B 0290... DG / KS-B5 - IEC 63 **R**

Delik milli, Gövdeden montajlı, Konik sıktırmalı, B5 flanşlı,
İki kademeli, Helisel konik dişlili, IEC adaptörlü redüktör
Helical bevel gear unit, Hollow shaft, Case mounted,
Shrink disc connector, Flange B5, Double reduction,
With IEC adapter

PKD B 0290... DG / KS-B5 - W **R**

Delik milli, Gövdeden montajlı, Konik sıktırmalı, B5 flanşlı,
İki kademeli, Helisel konik dişlili, W kovanlı redüktör
Helical bevel gear unit, Hollow shaft, Case mounted,
Shrink disc connector, Flange B5, Double reduction,
With freeinput shaft

Not : L ve R çıkış yönünü göstermektedir.
Note: L and R shows that output direction.

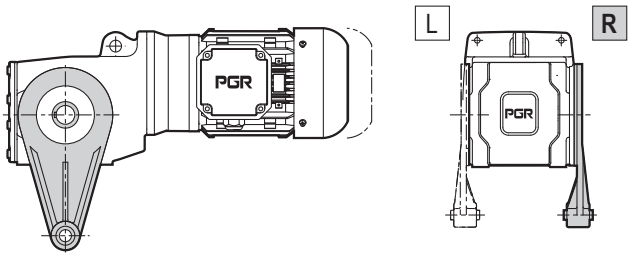


TR ÜRÜNLERİMİZ

EN PRODUCTS

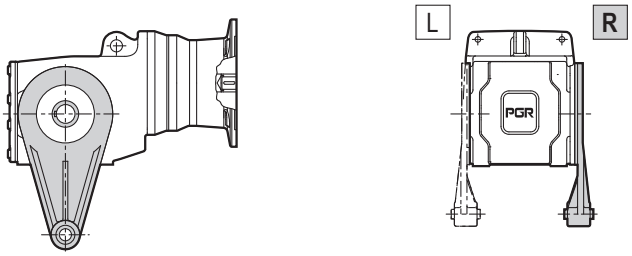
9) PKD B 0290... DG / TK - 63 M / 4 R

Delik milli, Gövdeden montajlı, Tork kollu,
İki kademeli, Helisel konik dişlili, Motorlu redüktör
Helical bevel gear unit, Hollow shaft, Case mounted,
Torque arm, Double reduction, With motor



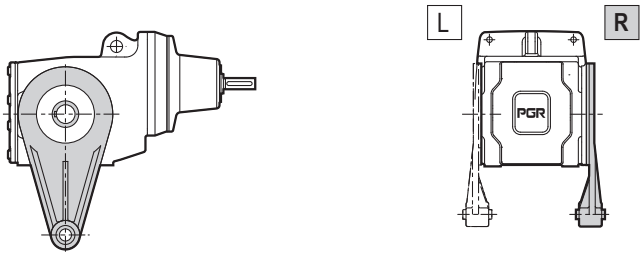
PKD B 0290... DG / TK - IEC R

Delik milli, Gövdeden montajlı, Tork kollu, İki kademeli,
Helisel konik dişlili, IEC adaptörlü redüktör
Helical bevel gear unit, Hollow shaft, Case mounted,
Torque arm, Double reduction, With IEC adapter



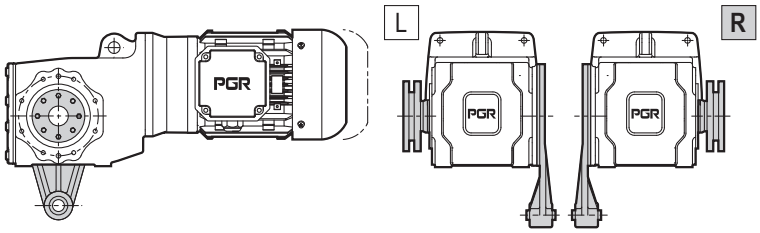
PKD B 0290... DG / TK - W R

Delik milli, Gövdeden montajlı, Tork kollu,
İki kademeli, Helisel konik dişlili, W kovanlı redüktör
Helical bevel gear unit, Hollow shaft, Case mounted,
Torque arm, Double reduction, With free input shaft



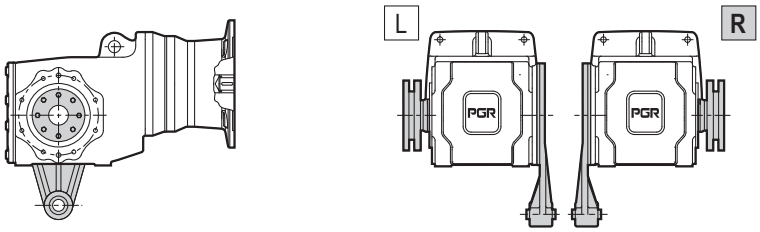
10) PKD B 0290... DG / KS-TK - 63 M /4 R

Delik milli, Gövdeden montajlı, Konik sıktırmalı,
Tork kollu, İki kademeli,Helisel konik dişlili, Motorlu redüktör
Helical bevel gear unit, Hollow shaft, Case mounted,
Shrink disc connector, Torque arm, Double reduction, With motor



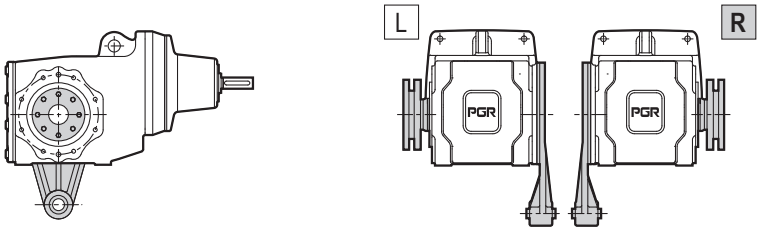
PKD B 0290... DG / KS-TK - IEC R

Delik milli, Gövdeden montajlı, Konik sıktırmalı, Tork kollu,
İki kademeli, Helisel konik dişlili, IEC adaptörlü redüktör
Helical bevel gear unit, Hollow shaft, Case mounted,
Shrink disc connector, Torque arm, Double reduction,
With IEC adapter



PKD 1390... DG / KS-TK - W R

Delik milli, Gövdeden montajlı, Konik sıktırmalı, Tork kollu,
İki kademeli, Helisel konik dişlili, W kovanlı redüktör
Helical bevel gear unit, Hollow shaft, Case mounted,
Shrink disc connector, Torque arm, Double reduction, With free
input shaft



Not : L ve R çıkış yönünü göstermektedir.
Note: L and R shows that output direction.

TR ÜRÜNLERİMİZ

1) PKD B 1390... DG / B14 - 63 M / 4

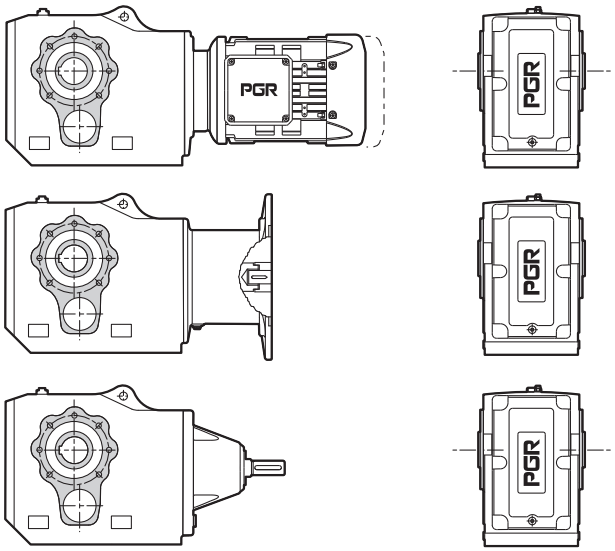
Delik milli, Gövdeden montajlı, Üç kademeli, B14 flanşlı, Helisel konik dişlili, Motorlu redüktör /
Helical bevel gear unit, Hollow shaft, Case mounted, Triple reduction, Flange B14, With motor

PKD 1390... DG / B14 - IEC 63

Delik milli, Gövdeden montajlı, Üç kademeli, B14 flanşlı, Helisel konik dişlili, IEC adaptörlü redüktör /
Helical bevel gear unit, Hollow shaft, Case mounted, Triple reduction, Flange B14, With IEC adapter

PKD 1390... DG / B14 - W

Delik Milli, Gövdeden Montajlı, Üç Kademeli, B14 flanşlı, Helisel konik dişlili, W kovanlı redüktör /
Helical bevel gear unit, Hollow shaft, Case mounted, Triple reduction, Flange B14, With free input shaft



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2) PKD 1390... DG / KS-B14 - 63 M / 4 R

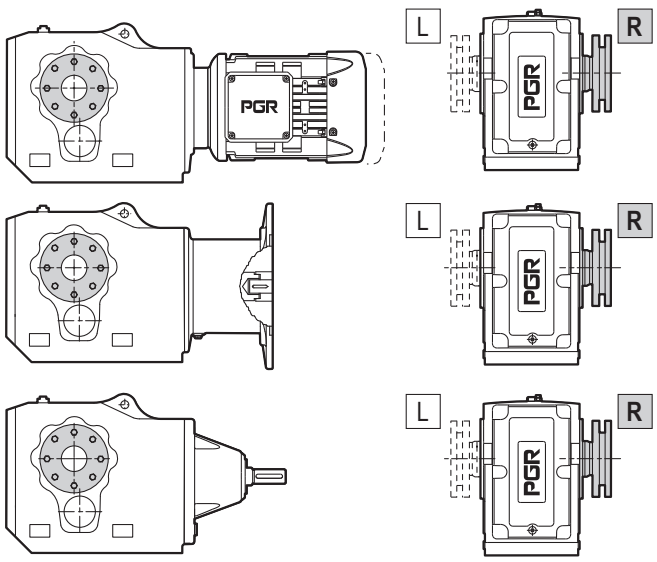
Delik milli, Gövdeden montajlı, Konik sıktırmalı, Üç kademeli, B14 flanşlı, Helisel konik dişlili, Motorlu redüktör / Helical bevel gear unit, Hollow shaft, Case mounted, Shrink disc connector, Triple reduction, Flange B14, With motor.

PKD 1390... DG / KS-B14 - IEC 63 R

Delik milli, Gövdeden montajlı, Konik sıktırmalı, Üç kademeli, B14 flanşlı, Helisel konik dişlili, IEC adaptörlü redüktör / Helical bevel gear unit, Hollow shaft, Case mounted, Shrink disc connector, Triple reduction, Flange B14, With IEC adapter

PKD 1390... DG / KS-B14 - W R

Delik milli, Gövdeden montajlı, Konik sıktırmalı, Üç kademeli, B14 flanşlı, Helisel konik dişlili, W kovanlı redüktör / Helical bevel gear unit, Hollow shaft, Case mounted, Shrink disc connector, Triple reduction, Flange B14, With free input shaft



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3) PKD 1390...TMG / B14 - 63 M / 4 R

Tek mil çıkışlı, Gövdeden montajlı, Üç kademeli, B14 flanşlı, Helisel konik dişlili, Motorlu redüktör /
Helical bevel gear unit, Solid shaft, Case mounted, Triple reduction, Flange B14, With motor

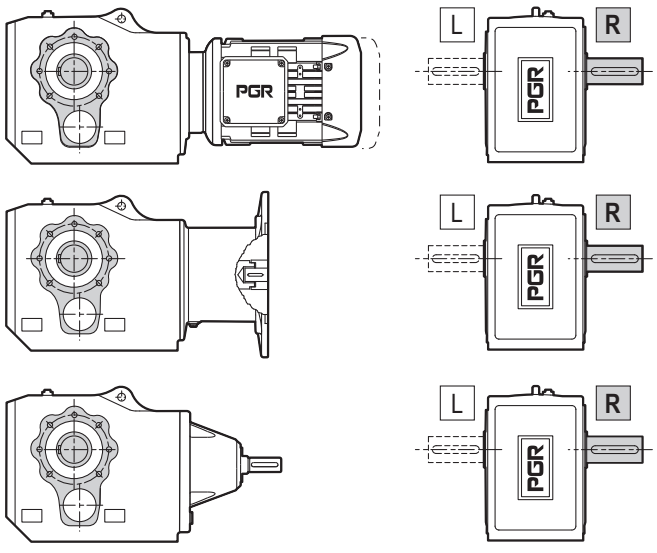
PKD 1390... TMG / B14 - IEC 63 R

Tek mil çıkışlı, Gövdeden montajlı, Üç kademeli, B14 flanşlı, Helisel konik dişlili, IEC adaptörlü redüktör /
Helical bevel gear unit, Solid shaft, Case mounted, Triple reduction, Flange B14, With IEC adapter

PKD 1390... TMG / B14 - W R

Tek mil çıkışlı, Gövdeden montajlı, Üç kademeli, B14 flanşlı, Helisel konik dişlili, W kovanlı redüktör /
Helical bevel gear unit, Solid shaft, Case mounted, Triple reduction, Flange B14, With free input shaft

Not : L ve R çıkış yönünü göstermektedir.
Note: L and R shows that output direction.



EN PRODUCTS

TR ÜRÜNLERİMİZ

EN PRODUCTS

4) PKD 1390... TMG / B5 - 63 M / 4

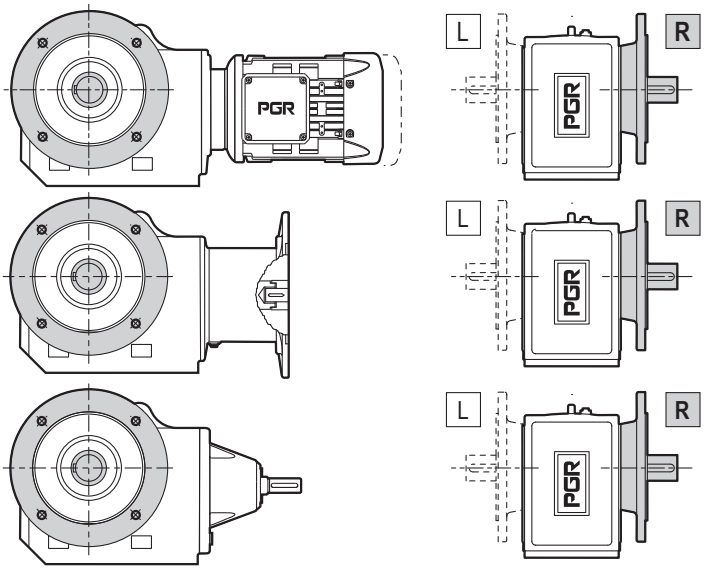
Tek mil çıkışlı, Gövdeden montajlı, B5 flanşlı, Üç kademeli, Helisel konik dişlili, Motorlu redüktör /
Helical bevel gear unit, Solid shaft, Case mounted, Flange B5, Triple reduction, With motor

PKD 1390... TMG / B5 - IEC 63

Tek mil çıkışlı, Gövdeden montajlı, B5 flanşlı, Üç kademeli, Helisel konik dişlili, IEC adaptörlü redüktör /
Helical bevel gear unit, Solid shaft, Case mounted, Flange B5, Triple reduction, With IEC adapter

PKD 1390... TMG / B5 - W

Tek mil çıkışlı, Gövdeden montajlı, B5 flanşlı, Üç kademeli, Helisel konik dişlili, W kovanlı redüktör /
Helical bevel gear unit, Solid shaft, Case mounted, Flange B5, Triple reduction, With free input shaft



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5) PKD 1390... DG / B5 - 63 M / 4 R

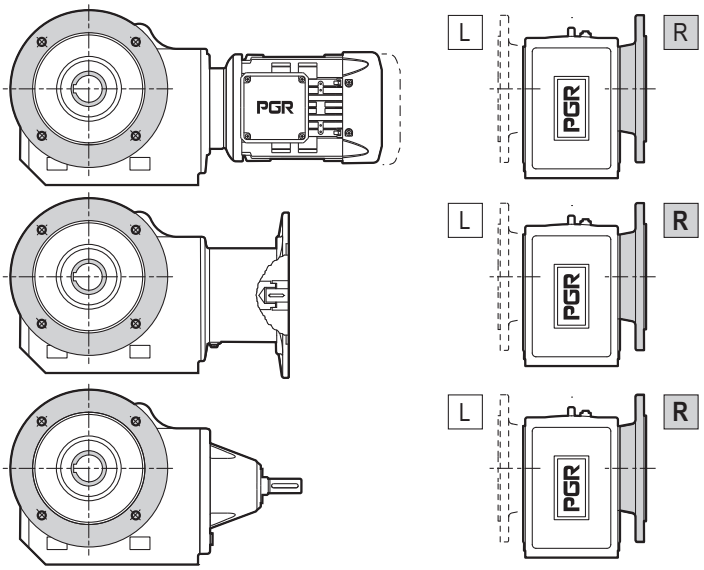
Delik milli, Gövdeden montajlı, B5 flanşlı, Üç kademeli, Helisel konik dişlili, Motorlu redüktör /
Helical bevel gear unit, Hollow shaft, Case mounted, Flange B5, Triple reduction, With motor

PKD 1390... DG / B5 - IEC 63 R

Delik milli, Gövdeden montajlı, B5 flanşlı,Üç kademeli, Helisel konik dişlili, IEC adaptörlü redüktör /
Helical bevel gear unit, Hollow shaft, Case mounted, Flange B5, Triple reduction, With IEC adapter

PKD 1390... DG / B5 - W R

Delik milli, Gövdeden montajlı, B5 flanşlı, Üç kademeli, Helisel konik dişlili, W kovanlı redüktör /
Helical bevel gear unit, Hollow shaft, Case mounted, Flange B5, Triple reduction, With free input shaft



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6) PKD 1390... DG / KS-B5 - 63 M / 4 R

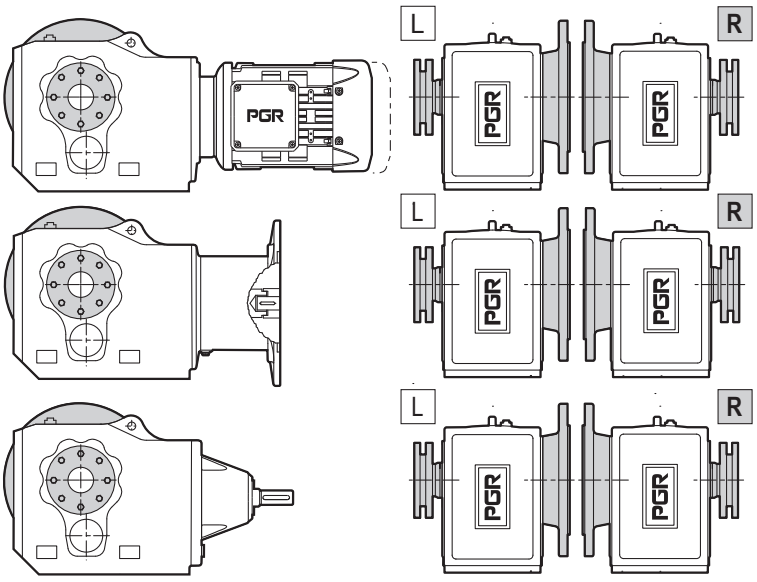
Delik milli, Gövdeden montajlı, Konik sıktırmalı, B5 flanşlı, Üç kademeli, Helisel konik dişlili, Motorlu redüktör /
Helical bevel gear unit, Hollow shaft, Case mounted, Shrink disc connector, Flange B5, Triple reduction, With motor

PKD 1390... DG / KS-B5 - IEC 63 R

Delik milli, Gövdeden montajlı, Konik sıktırmalı, B5 flanşlı, Üç kademeli, Helisel konik dişlili, IEC adaptörlü redüktör /
Helical bevel gear unit, Hollow shaft, Case mounted, Shrink disc connector, Flange B5, Triple reduction, With IEC adapter

PKD 1390... DG / KS-B5 - W R

Delik milli, Gövdeden montajlı, Konik sıktırmalı, B5 flanşlı, Üç kademeli, Helisel konik dişlili, W kovanlı redüktör /
Helical bevel gear unit, Hollow shaft, Case mounted, Shrink disc connector, Flange B5, Triple reduction, With free input shaft



Not : L ve R çıkış yönünü göstermektedir.
Note: L and R shows that output direction.

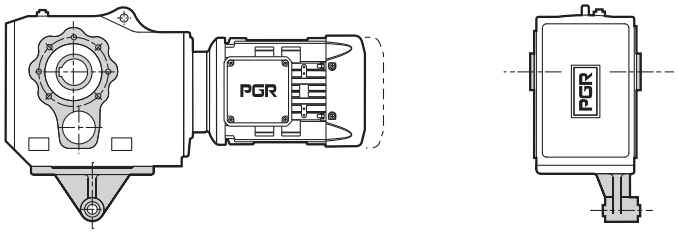
TR ÜRÜNLERİMİZ

EN PRODUCTS

7) PKD 1390... DG / TKP-B14 - 63 M / 4

Delik milli, Gövdeden montajlı, Üç kademeli, Tork kolu platformu, B14 flanşlı, Helisel konik dişlili, Motorlu redüktör

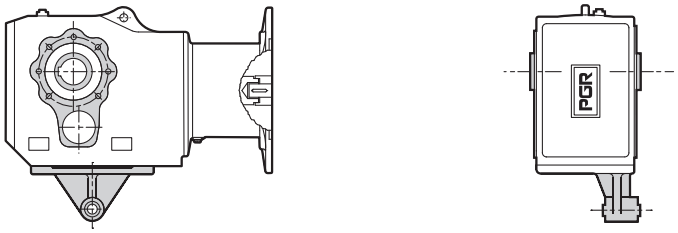
Helical bevel gear unit, Hollow shaft, Case mounted, Triple reduction, Torque arm platform, Flange B14, With motor



PKD 1390... DG / TKP-B14 - IEC 63

Delik milli, Gövdeden montajlı, Üç kademeli, Tork kolu platformu, B14 flanşlı, Helisel konik dişlili, IEC adaptörlü redüktör

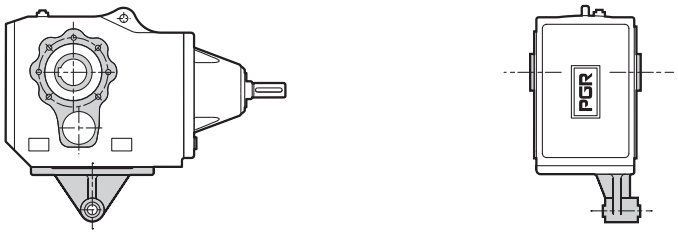
Helical bevel gear unit, Hollow shaft, Case mounted, Triple reduction, Torque arm platform, Flange B14, With IEC adapter



PKD 1390... DG / TKP-B14 - W

Delik milli, Gövdeden montajlı, Üç kademeli, Tork kolu platformu, B14 flanşlı, Helisel konik dişlili, W kovanlı redüktör

Helical bevel gear unit, Hollow shaft, Case mounted, Triple reduction, Torque arm platform, Flange B14, With free input shaft



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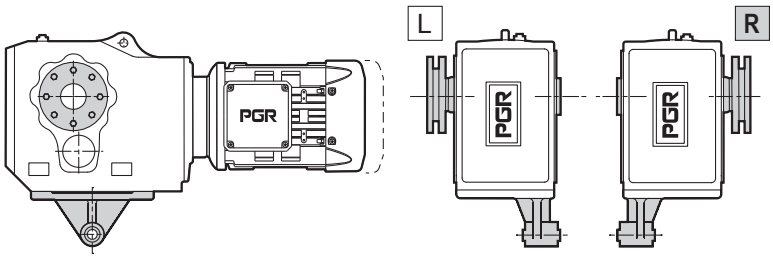
8) PKD 1390... DG / KS-TKP-B14 - 63 M / 4 R

Delik milli, Gövdeden montajlı, Konik sıktırmalı, Üç kademeli, Tork kolu platformu, B14 flanşlı, Helisel konik dişlili, Motorlu redüktör

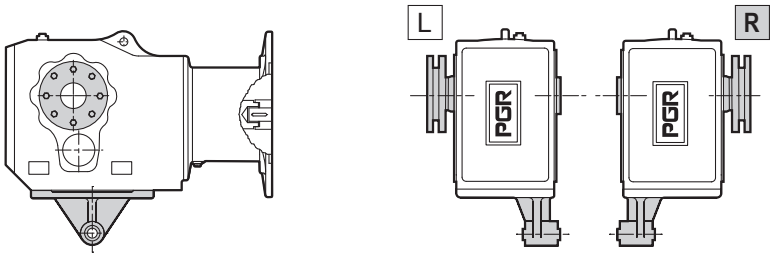
Helical bevel gear unit, Hollow shaft, Case mounted, Shrink disc connector, Triple reduction, Torque arm platform, Flange B14, With motor



PKD 1390... DG / KS-TKP-B14 - IEC R

Delik milli, Gövdeden montajlı, Konik sıktırmalı, Üç kademeli, Tork kolu platformu, B14 flanşlı, Helisel konik dişlili, IEC adaptörlü redüktör

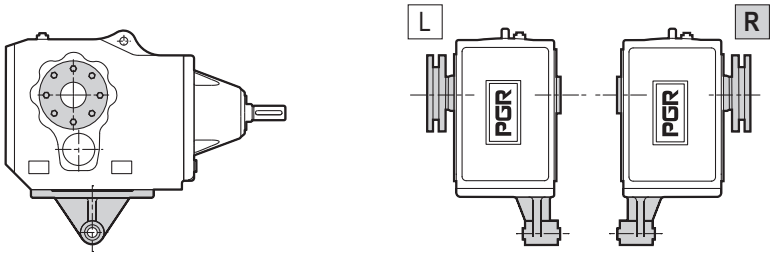
Helical bevel gear unit, Hollow shaft, Case mounted, Shrink disc connector, Triple reduction, Torque arm platform,Flange B14, With IEC adapter



PKD 1390... DG / KS-TKP-B14 - W R

Delik milli, Gövdeden montajlı, Konik sıktırmalı, Üç kademeli, Tork kolu platformu, B14 flanşlı, Helisel konik dişlili, W kovanlı redüktör

Helical bevel gear unit, Hollow shaft, Case mounted, Shrink disc connector, Triple reduction, Torque arm platform, Flange B14, With free input shaft



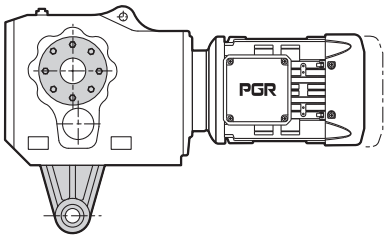
Not : L ve R çıkış yönünü göstermektedir.
Note: L and R shows that output direction.

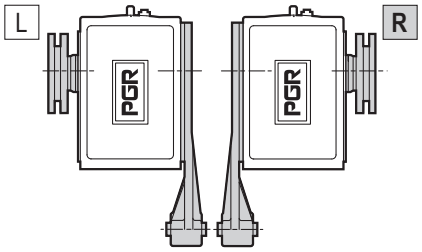
TR ÜRÜNLERİMİZ

EN PRODUCTS

9) PKD 1390... DG / KS-TK - 63 M / 4 R

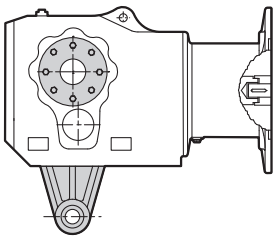
Delik milli, Gövdeden montajlı, Konik sıktırmalı, Tork kollu, Üç kademeli, Helisel konik dişlili, Motorlu redüktör / Helical bevel gear unit, Hollow shaft, Case mounted, Shrink disc connector, Torque arm, Triple reduction, With motor

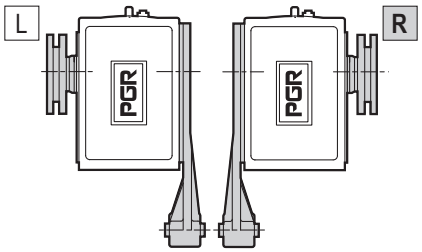




PKD 1390... DG / KS-TK - IEC R

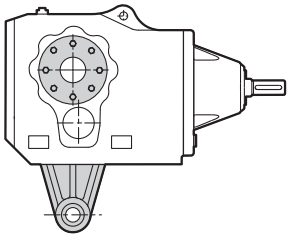
Delik milli, Gövdeden montajlı, Konik sıktırmalı, Tork kollu, Üç kademeli, Helisel konik dişlili, IEC adaptörlü redüktör / Helical bevel gear unit, Hollow shaft, Case mounted, Shrink disc connector, Torque arm, Triple reduction, With IEC adapter

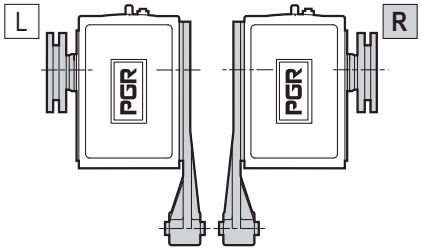




PKD 1390... DG / KS-TK - W R

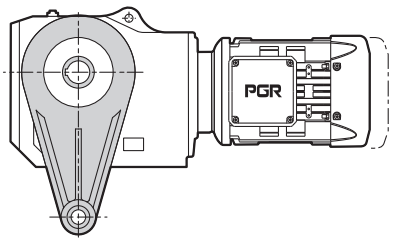
Delik milli, Gövdeden montajlı, Konik sıktırmalı, Tork kollu, Üç kademeli, Helisel konik dişlili, W kovanlı redüktör / Helical bevel gear unit, Hollow shaft, Case mounted, Shrink disc connector, Torque arm, Triple reduction, With free input shaft

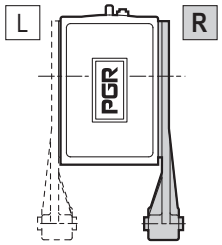




10) PKD 1390... DG / TK - 63 M / 4 R

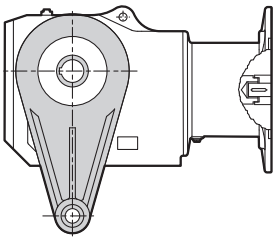
Delik milli, Gövdeden montajlı, Tork kollu, Üç kademeli, Helisel konik dişlili, Motorlu redüktör / Helical bevel gear unit, Hollow shaft, Case mounted, Torque arm,Triple reduction, With motor

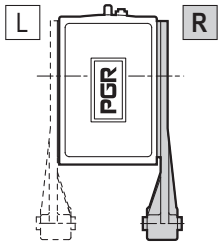




PKD 1390... DG / TK - IEC R

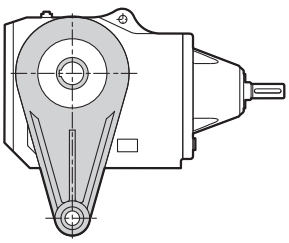
Delik milli, Gövdeden montajlı, Tork kollu, Üç kademeli, Helisel konik dişlili, IEC adaptörlü redüktör / Helical bevel gear unit, Hollow shaft, Case mounted, Torque arm, Triple reduction, With IEC adapter

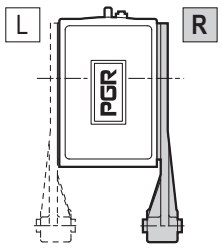




PKD 1390... DG / TK - W R

Delik milli, Gövdeden montajlı, Tork kollu, Üç kademeli, Helisel konik dişlili, W kovanlı redüktör / Helical bevel gear unit, Hollow shaft, Case mounted, Torque arm, Triple reduction, With free input shaft





Not : L ve R çıkış yönünü göstermektedir.
Note: L and R shows that output direction.

TR SİPARİŞ ÖRNEĞİ

EN EXAMPLE FOR ORDERING

PKD 6390/32 297.35 DA / KS - 90 S / 4 BRE R

Tip : POLAT Konik Dişlili Redüktör)
Type : POLAT Helical - Bevel Geared Motor)

İges: Tahvil Oranı
İges: Reduction Ratio
73 - 112

Standart Ürünler
Available standard products

DA/KS: Ayak montajlı, Delik milli, Konik sıktırmalı
DA/KS: Foot mounted, Hollow shaft, Shrink disc connector

TMA	DA	ÇMA	DA / KS	TMA / B5	DA / B5
DA / KS - B5	TMA / B14	DA / B14	ÇMA / B14	DA / KS - B14	
DG / B14	DG / KS - B14	DG / TK	DG / KS - TK	DG/TKP-B14	
DG/KS-TKP-B14	TMG / B5	DG / B5	DG / KS - B5	TMG / B14	

26 - 38

6
Gövde Büyüklüğü
Case Width

*A0
*B0
*C1
*F4
*H5
1
G1
2
3
4
5
6
7
8
G8
9
G9

3
Kademe
Reduction

2
3
4

115 - 163

90°
Giriş çıkış açısı
Angle between input-output

PF GÖVDE
PF CASE

3
Gövde Büyüklüğü
Case Width

3
4
5
6

2
Kademe
Reduction

2
3

162 - 163

* İki kademeli, Konik Dişlili Redüktör
*** Double Reduction, Helical Bevel Gear Unit**

IEC
IEC

63
71
80
90
100
112
132
160
180
200
225
250
280
315

W
W

Motorlu
With Motor

Gövde Büyüklüğü
Case Width

63 M
71 M
80 M
90 S/L
100 L
112 M
132 S/M
160 M/L
180 M/L
200 L
225 S
250 S/M/L
280 S/M/L
315 S/M/L

Kutup sayısı
Number of Poles

2
4
6
4 - 2
8 - 2
2 -12

Diğer Kutup kombinasyonları istendiğinde karşılanacaktır.
Other pole combinations on request

Motor Seçenekleri
Motor Options

BRE
RG
SR
HL
TF
TW
WU
EF
ZF
DF
IG
KK/FK
RLS

22

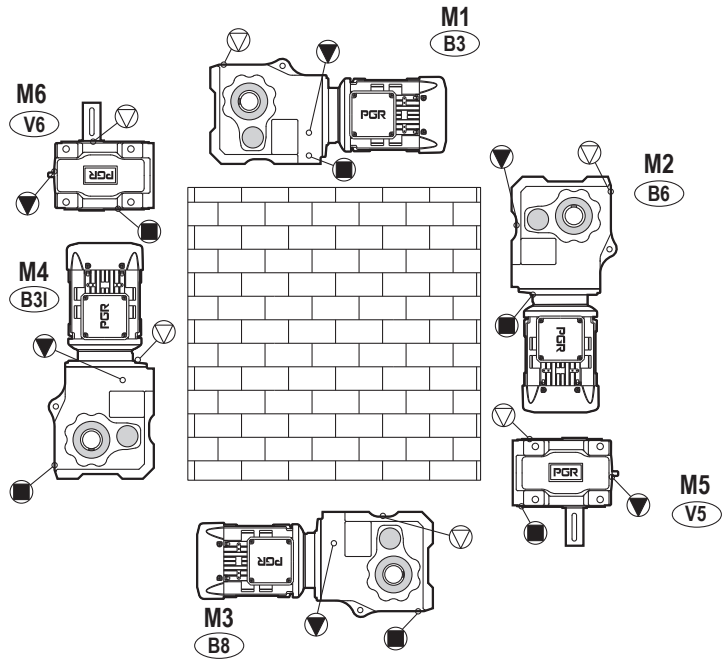
Çıkış Yönü
Output Direction
L/R : Sol/Sağ
L/R : Left/Right
26 - 38

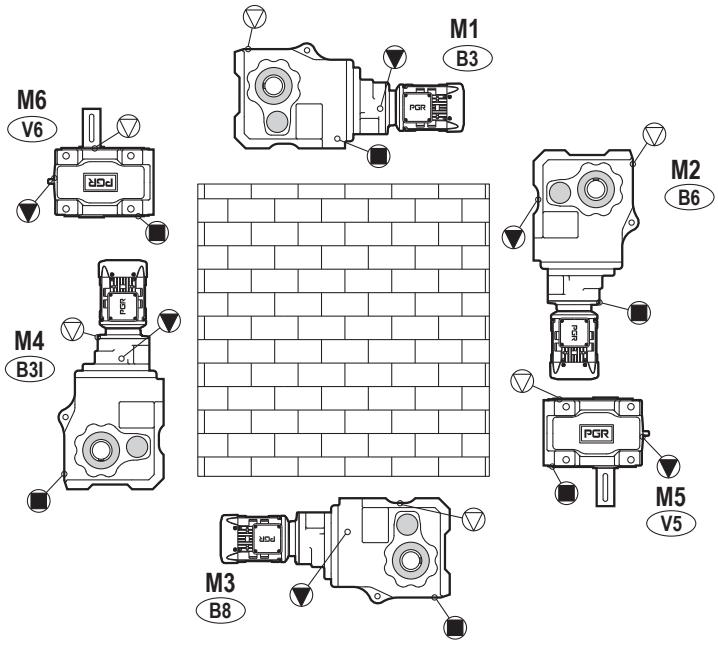
TR MONTAJ POZİSYONLARI

EN MOUNTING POSITIONS

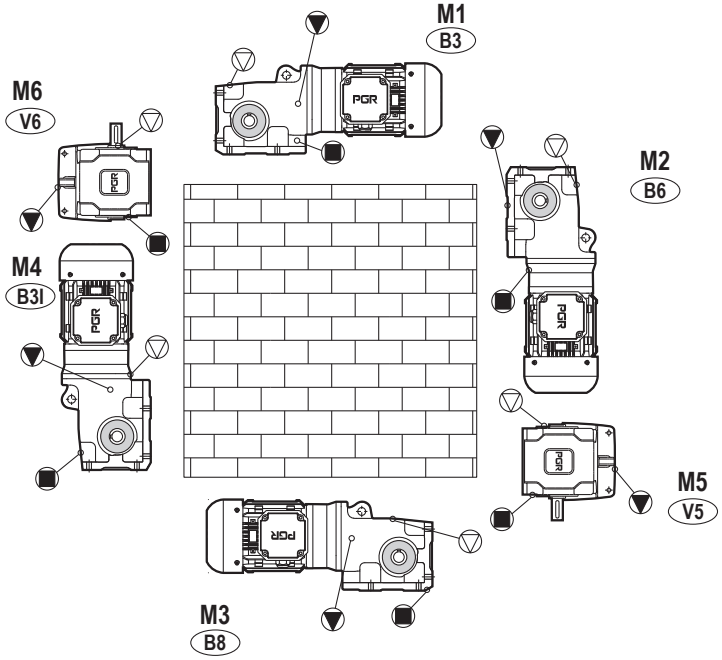
AYAK MONTAJLI / FOOT MOUNTED

PKD 1390
PKD G 1390
PKD 2390
PKD 3390
PKD 4390
PKD 5390
PKD 6390
PKD 7390
PKD 8390
PKD G 8390
PKD 9390
PKD G 9390





PKD 1490
PKD G 1490
PKD 2490
PKD 3490
PKD 4490
PKD 5490



PKD A 0290
PKD B 0290
PKD C 1290
PKD F 4290
PKD H 5290

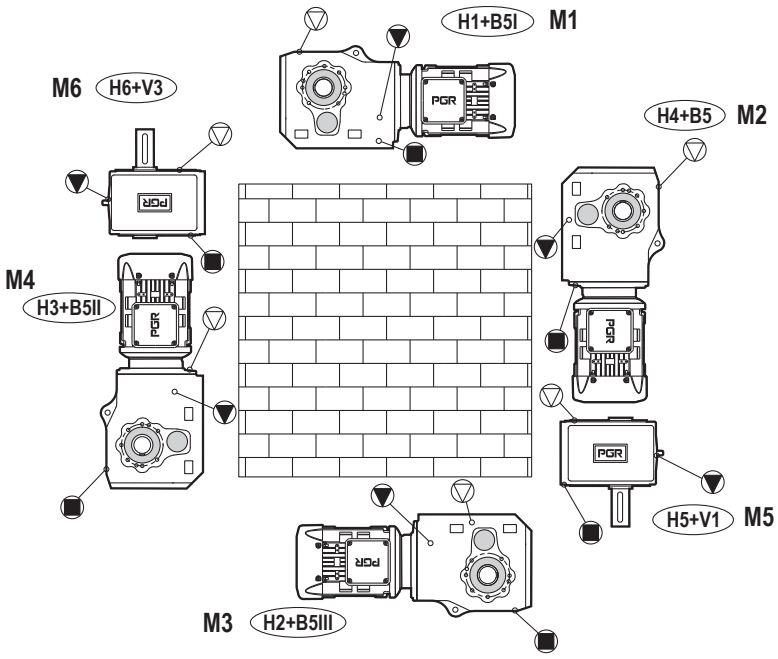
Havalandırma tapası / Vent plug **Boşaltma tapası** / Drain plug **Yağ Seviye tapası** / Oil level

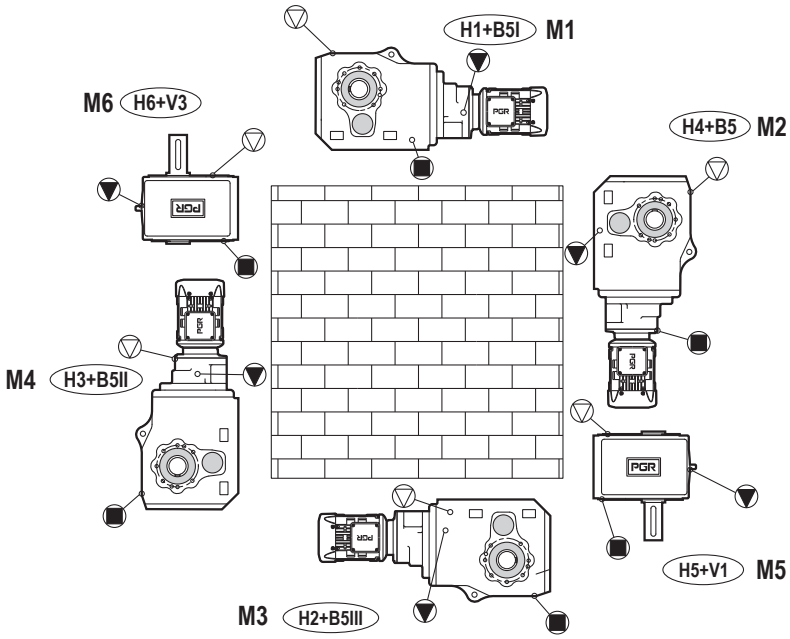
TR MONTAJ POZİSYONLARI

EN MOUNTING POSITIONS

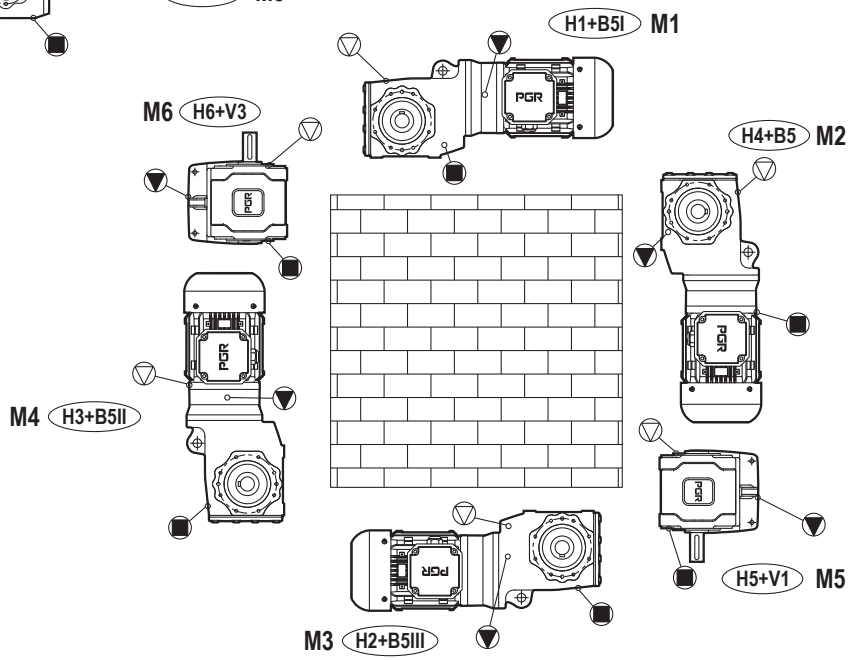
GÖVDEDEN MONTAJLI / CASE MOUNTED

PKD 1390
PKD G 1390
PKD 2390
PKD 3390
PKD 4390
PKD 5390
PKD 6390
PKD 7390
PKD 8390
PKD G 8390
PKD 9390
PKD G 9390





PKD 1490
PKD G 1490
PKD 2490
PKD 3490
PKD 4490
PKD 5490



PKD A 0290
PKD B 0290
PKD C 1290
PKD F 4290
PKD H 5290

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

TR MONTAJ POZİSYONLARI

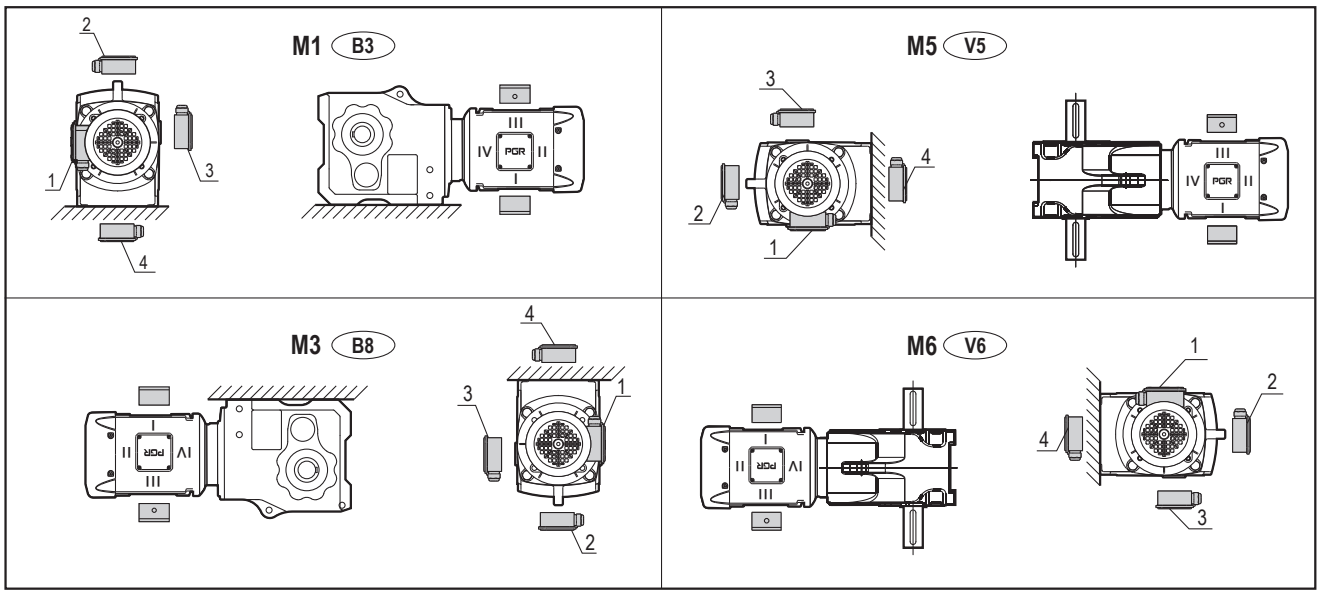
 # M4 montaj pozisyonunda ilave yağlama ünitesi kullanılır

Tabloda gösterilen bu montaj pozisyonları helisel konik dişlili redüktörlerin W kovanı ve IEC adaptör olanlar için de geçerlidir.

EN MOUNTING POSITIONS

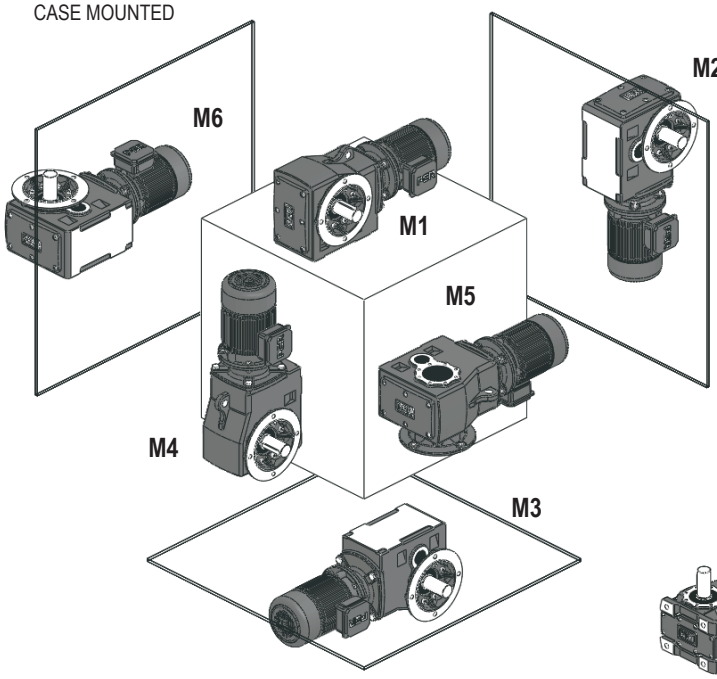
Mounting position M4 with additional lubricant volume 65

Mounting positions which are shown below of this page are used for all types of helical-bevel gear units. (Type W cylinder, IEC adapter and geared motor)

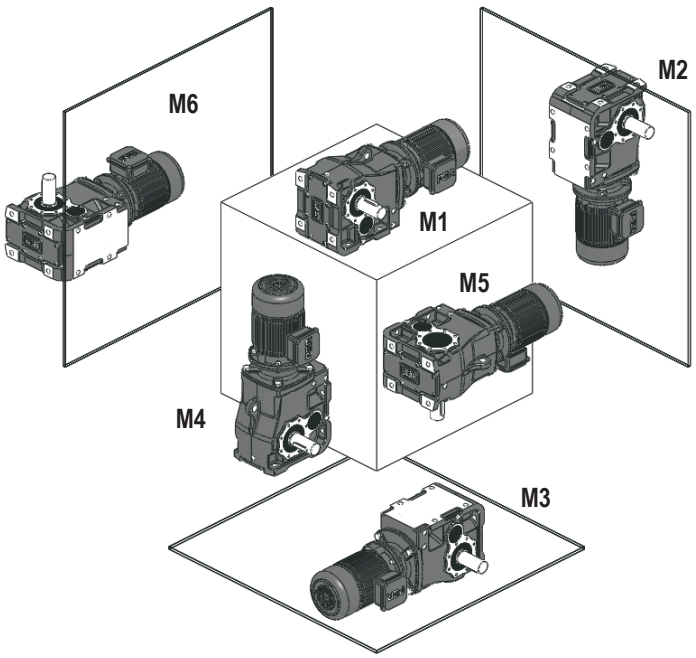


Montaj yüzeyi / Mounting surface

GÖVDEDEN MONTAJLI
CASE MOUNTED



AYAK MONTAJLI
FOOT MOUNTED



TR YAĞLAMA

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

Redüktörler fabrikadan çalışmaya hazır ve mineral 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 10 000 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 mineral olil. Following tables are presented properties of oils depend on ambient temperature. Gear units which is W or IEC adapter type and gear motors are charged with lubricant. Ambient temperature is played 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 where synthetic oil is used. However, operating conditions should be considered for changing oil time eg. in aggressive environment large 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.

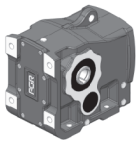
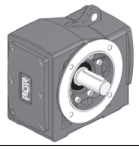
Redüktör Tipi Type of gearbox	Yağ Tipi Type of Lubricant	Ortam Sıcaklığı Ambient Temp. ° C	ISO vizkozite sınıfı ISO viscosity class	SHELL	MOBİL	BP	ESSO	DEA	ARAL	CASTROL	TRIBOL	KLÜBER
Helisel Dişlili Redüktör Helical Gearboxes	Mineral yağ Mineral oil	- 5...40 Normal -15...25 # - 50...-15	ISO VG 220 ISO 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

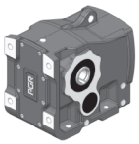
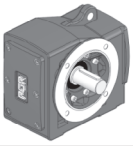
- 30° C altında ve 60° C üzerindeki ortam sıcaklıklarında şafttaki sızdırmazlık elemanı için özel kalitedeki malzeme kullanılmalıdır.

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

TR YAĞ MİKTAR TABLOSU

EN LUBRICATION LEVELS

(Litre) (L)	AYAK MONTAJLI FOOT MOUNTED 						GÖVDEDEN MONTAJLI CASE MOUNTED  					
43	M1	M2	M3	M4	M5	M6	M1	M2	M3	M4	M5	M6
41 - 42	B3	B6	B8	B3I	V5	V6	B5I	B5	B5III	B5II	V1	V3
							H1	H4	H2	H3	H5	H6
PKD A 0290	0.45	0.65	0.55	0.55	0.45	0.45	0.45	0.65	0.55	0.55	0.45	0.45
PKD B 0290	0.65	0.95	1	1.15	0.8	0.67	0.55	1	0.95	1.1	0.8	0.7
PKD C 1290	0.95	1.35	1.5	1.65	1.25	1.25	1.2	1.55	1.25	1.75	1.2	1.2
PKD F 4290	1.85	3.55	3.25	3.45	2.65	2.65	1.6	2.85	2.55	3.35	2.5	2.5
PKD H 5290	2.35	4.55	4.65	5.35	4.15	4.15	2.8	4.45	4.55	5.6	3.55	3.55
PKD 1390	0.75	1.65	2	2.2	1.25	1.75	0.75	2	2.3	2.2	1.25	1.75
PKD G 1390	0.75	1.65	2	2.2	1.25	1.75	0.75	2	2.3	2.2	1.25	1.75
PKD 2390	1.35	2.65	3.55	4.3	2.05	2.9	1.35	2.65	3.9	4.3	2.05	2.9
PKD 3390	1.75	4.85	6.5	6.8	4.15	5.15	2	5.3	6.5	7.4	3.35	5.15
PKD 4390	4.45	8.75	10.1	9.9	6.85	7.55	3.65	9.8	11.5	11.6	6.55	8.25
PKD 5390	6.6	16.1	19.1	21.6	11.1	15.6	7.6	16.6	20.1	23.6	11.6	18.1
PKD 6390	10.5	28	32.5	36.5	18.5	24.5	12.5	28	33.5	39	19.5	26.5
PKD 7390	10.5	28	32.5	36.5	18.5	24.5	12.5	28	33.5	39	19.5	26.5
PKD 8390	17.5	52	63	72	33.5	47	21.5	54.5	66.5	80.5	38.5	52.5
PKD G 8390	26.5	73.5	85.5	102.5	48.5	62.5	36.5	78.5	91.5	101.5	53.5	76.5
PKD 9390	36.5	157.5	170.5	172.5	80.5	90.5	40.5	130.5	154.5	175.5	82.5	91.5
PKD G 9390	99	188	195	255	110	153	99	188	194	258	114	157

(Litre) (L)	AYAK MONTAJLI FOOT MOUNTED 						GÖVDEDEN MONTAJLI CASE MOUNTED  					
43	M1	M2	M3	M4	M5	M6	M1	M2	M3	M4	M5	M6
41 - 42	B3	B6	B8	B3I	V5	V6	B5I	B5	B5III	B5II	V1	V3
							H1	H4	H2	H3	H5	H6
PKD 1490	1.25	2.1	2.25	3.10	1.5	2	1.25	2.35	2.25	3.1	1.5	2
PKD G 1490	1.25	2.1	2.25	3.10	1.5	2	1.25	2.4	2.25	3.1	1.5	2
PKD 2490	2.5	3.1	3.85	5.35	2.25	3.2	2.5	3.1	3.85	5.35	2.25	3.2
PKD 3490	3.35	6.65	7.1	7.9	4.4	5.2	3.85	5.75	7	8.6	3.7	5.7
PKD 4490	4.65	10.3	10.8	13	5.3	6.8	5.75	10.3	14.8	14.8	6.7	9.7
PKD 5490	10.1	17.1	20.1	24.3	11.6	16.6	12.6	18.1	26.6	26.6	13.1	17.1

M1 **Yeni Montaj Pozisyonu** The New Mounted Position

(B3) **Eski Montaj Pozisyonu** The Old Mounted Position

TR KİLİT SİSTEMİ

Kilit Sistemli Helisel Konik Dişlili Redüktör
Her helisel konik dişli redüktör kilit sistemli yapılabilir.
Kilit sistemi yağlaması için ayrı bir yağlama sistemine gerek yoktur.

Dikkat: Çalıştırılmadan önce redüktör ve motorun dönüşyönleri herhangi bir kırılmaya karşı olabilecek riski önlemek için kontrol edilmelidir.

Çıkış şaftı sonundaki yüzeyin kilitleme yönüne göre gösterimi:

CW : Saat yönü

CCW : Saat yönü tersi

EN BACKSTOP

Backstop System For Helical - Bevel Gear Unit
Backstop system is available for all type of helical-bevel gear unit.
There is not require another lubricating system because, backstop is lubricated through the gear unit's oil.

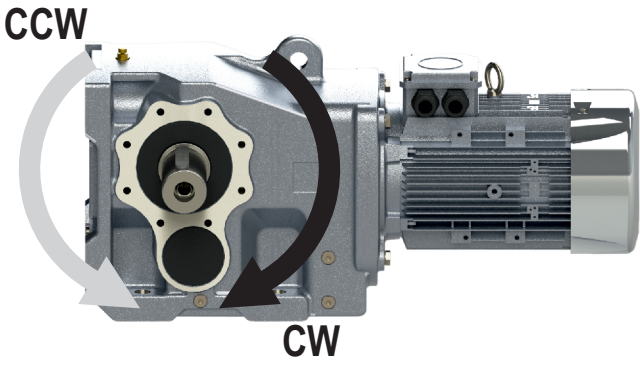
Precaution: When you receive gear units, please check direction of rotation before running or installation for avoid damage.

"I" and "II" signs are shown locking direction from viewing at face of output shaft.

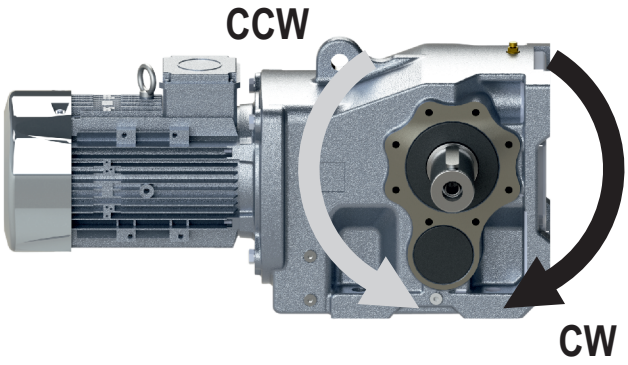
CW : Clockwise rotation

CCW : Counterclockwise rotation

A



B



Bütün şaft tasarımları ve çift çıkışlı şaftlar için geçerlidir.

These designation is used for all hollow shaft design and output shaft on both sides

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

113-211

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

DIMENSION - DRAWINGS

Motor dimension could be changed according to customerpurchase.

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 heavyshock 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

113-211

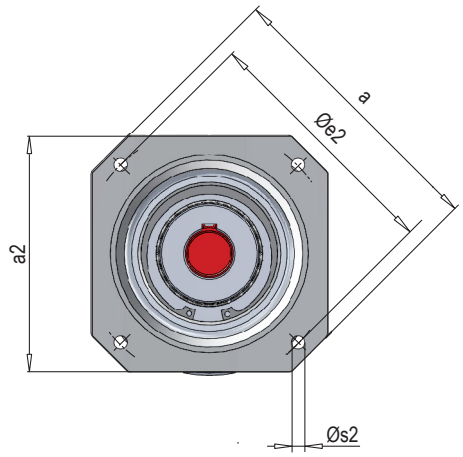
Keyways are machined according to DIN 6885, sheet 1
Shaft heights are machined according to "h" to DIN 747

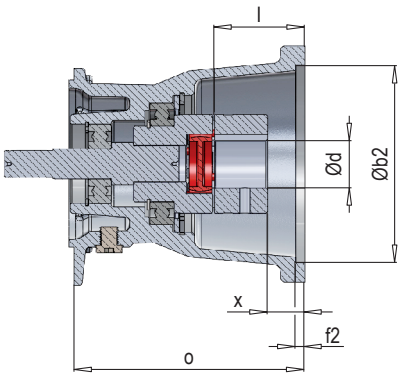
FLANGES

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		
PKD 1390, G 1390, 2390	120	96	80	100	4	M6	15	19	40	124	10	Servo 100 / 160 S
PKD 1390, G 1390, 2390	165	126	110	130	4	M8	20	24	50	136	35	Servo 130 / 160 S
PKD 3390	155	126	110	130	4	M8	20	24	50	150	35	Servo 130 / 250 S
PKD 1390, G 1390, 2390	186	155	130	165	5	M10	23	32	58	151	95	Servo 165 / 160 S
PKD 3390	186	155	130	165	5	M10	23	32	58	166	95	Servo 165 / 250 S
PKD 3390	240	192	180	215	5	M12	45	38	80	187	95	Servo 215/ 250 S
PKD 4390, 5390	240	192	180	215	5	M12	24	38	80	229	310	Servo 215/ 300 S
PKD 4390, 5390	350	260	250	300	5	M16	26	48	82	231	310	Servo 300/ 300 S
PKD 6390, 7390, 8390, G 8390, 9390, G 9390	350	260	250	300	5	M16	26	48	82	249	310	Servo 300/ 350 S

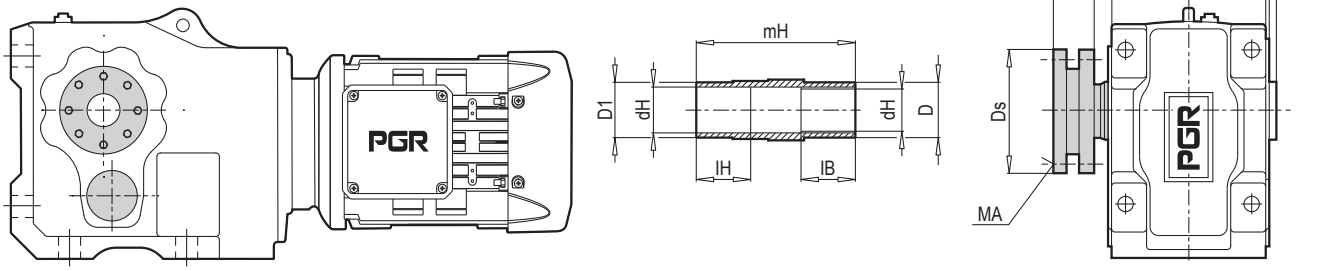
SEP tipi servo motor bağlantı adaptörünün bağlantısı kamalı olarak yapılmaktadır. SEK tiplerinde ise servo motor adaptörünün bağlantısı setuskur civata sıktırması ile yapılmaktadır. Servo motor bağlantı adaptörünün bağlantı flanşının farklı olması durumunda yüksek adetteki siparişler üretime alınır.

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 KONİK SIKTIRMA

EN SHRINK DISC CONNECTOR

AYAK MONTAJLI / FOOT MOUNTED (DA\KS)



Daha iyi ve kolay montaj ve demontaj için konik sıktırmalı tavsiye edilebilir.
PGR recommends to use shrink disc for easier installation and disassembly

Tip Type	**Konik sıktırma diski** Shrink disc connector						**Şaft ölçüleri** Shaft dimensions									**Vida tork değeri** Hexagon screw		
	Tip Type	**M_{amax}** [Nm]	**S_{h6}**	**S_{f6}**	**Ds**	**Hs**	**D**	**D1**	**dH^{H7}**	**IB**	**IH**	**mH**	**xH**	**xH2**	**m1**	**d x l**	**Zs**	**M_A** [Nm]
PKD 1390 DA/KS **PKD 1490 DA/KS**	KS 30/40	400	2.45	2.15	80	36	45	40	30	30	36	184	3	39	71	M6x35*	8	12
PKD G 1390 DA/KS **PKD G 1490 DA/KS**	KS 30/40	400	2.45	2.15	80	36	45	40	30	30	36	184	3	39	71	M6x35*	8	12
PKD 2390 DA/KS **PKD 2490 DA/KS**	KS 35/46	720	1.98	1.73	90	40	50	46	35	40	40	221	4	45	86	M6x35*	10	12
PKD 3390 DA/KS **PKD 3490 DA/KS**	KS 40/55	1.300	1.79	1.57	112	44	55	55	40	40	44	255	5	50	100	M8x40	8	30
PKD 4390 DA/KS **PKD 4490 DA/KS**	KS 50/62	2.400	1.82	1.70	125	46	70	62	50	50	46	290	5	55	115	M8x40	10	30
PKD 5390 DA/KS **PKD 5490 DA/KS**	KS 60/76	4.200	1.93	1.79	156	58	85	76	60	60	58	365	5	70	145	M10x50	10	59
PKD 6390 DA/KS **PKD 6390/32 DA/KS** **PKD 6390/42 DA/KS**	KS 70/90	7.200	1.91	1.79	182	74	100	90	70	70	74	430	5	85	170	M12x70*	10	100
PKD 7390 DA/KS **PKD 7390/32 DA/KS** **PKD 7390/42 DA/KS**	KS 80/108	8.500	3.70	3.56	208	83	120	108	80	82	80	430	5	85	170	M12x70*	14	100
PKD 8390 DA/KS **PKD 8390/42 DA/KS** **PKD 8390/52 DA/KS**	KS 100/128	12.000	2.53	2.40	240	92	130	128	100	70	82	505	10	95	200	M16x80*	8	250
PKD G 8390 DA/KS **PKD G 8390/52 DA/KS**	KS 110/138	18.000	1.92	1.83	266	74	140	138	110	80	74	576	12	88	238	M16x70	8	250
PKD 9390 DA/KS **PKD 9390/52 DA/KS**	KS 125/158	26.000	2.24	2.13	296	98	160	158	125	80	98	710	10	110	295	M16x80*	12	250
PKD G 9390 DA/KS **PKD G 9390/62 DA/KS** **PKD G 9390/63 DA/KS**	**İstenildiğinde** / On Request																	

S = h6 veya f6 ile konik sıktırmanın güvenirliliği.
M_A = Civatayı sıkmak için gerekli olan tork

Z_S = Vida miktarı
M_{amax} = max. izin verilebilir çıkış momenti

Hs ölçüsü civata sıkılmadan önceki ölçüsüdür. Konik sıktırmalı, genellikle kullanıcı milinin karşı tarafına montaj edilmelidir. Kullanıcı mil uzunluğu ile şaft uzunluğu (mH) örtüşmelidir. Şaft çapı ISO h6 veya f6'ya göre imal edilmelidir. (f6= Kolay montaj) 46

S = Assurance of shrink disc (with h6 and f6 tolerance)
M_A = Screw torque for tightening

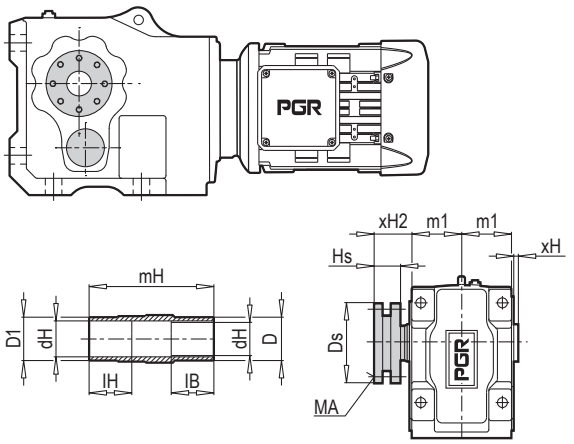
Z_S = Amount of screw
M_{amax} = maximum allowable output moment

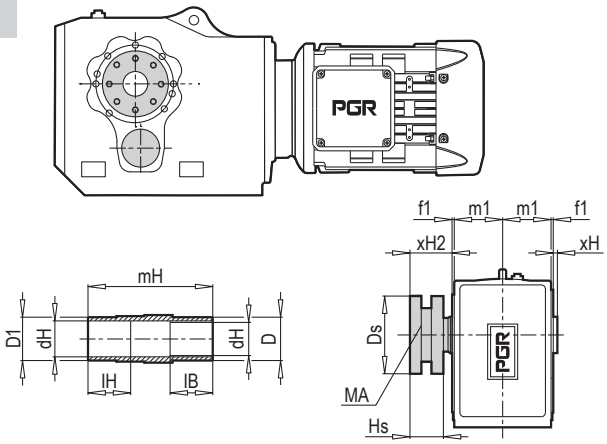
Hs values show dimension before tightening screw. When customer shaft is installed to the gear unit, shrink disc should be mounted on opposite side of it. Consider that, customer shaft must be equal 'mH' dimension which is length of hollow shaft and customer diameter shaft should be machined according to ISO h6 or f6 tolerances. 46

TR GÜÇLENDİRİLMİŞ KONİK SIKTIRMA

EN WITH REINFORCED SHRINK DISC CONNECTOR

GKS





Tip Type	Konik sıktırma diski Shrink disc connector						Şaft ölçüleri Shaft dimensions									Vida tork değeri Hexagon screw		
	Tip Type	M_{amax} [Nm]	S_{h6}	S_{f6}	Ds	Hs	D	D1	dH^{H7}	IB	IH	mH	xH	xH2	m1	d x l	Zs	M_A [Nm]
PKD 8390 DA/GKS PKD 8390/42 DA/GKS PKD 8390/52 DA/GKS	GKS 100/128	12000	3.92	3.69	266	136	130	128	100	70	136	559	10	149	200	M20x100	8	490
PKD G 8390 DA/GKS PKD G 8390/52 DA/GKS	GKS 110/138	18000	4.52	4.32	296	160	140	138	110	80	160	663	12	175	238	M20x130	12	490
PKD 9390 DA/GKS PKD 9390/52 DA/GKS	GKS 130/158	26000	3.81	3.63	315	170	160	158	130	80	170	782	10	182	295	M20x130	12	490
PKD G 9390 DA/GKS PKD G 9390/62 DA/GKS PKD G 9390/63 DA/GKS	**İstenildiğinde** / On Request																	
Aşağıdaki ölçüler gövdeden montajlıya aittir / Dimensions are used for case mounted designs.																		
PKD 6390 DG/GKS-B14 PKD 6390/32 DG/GKS-B14 PKD 6390/42 DG/GKS-B14	GKS 85/108	7200	4.48	4.21	236	110	110	108	85	80	110	464	5	119	165	M16x90	10	250
PKD 7390 DG/GKS-B14 PKD 7390/32 DG/GKS-B14 PKD 7390/42 DG/GKS-B14	GKS 95/108	8500	4.95	4.80	236	110	120	108	95	80	110	464	5	119	165	M16x90	10	250
PKD 8390 DG/GKS-B14 PKD 8390/42 DG/GKS-B14 PKD 8390/52 DG/GKS-B14	GKS 110/138	12000	6.78	6.49	296	160	140	138	110	80	160	587	8	175	195	M20x130	12	490
PKD G 8390 DG/GKS-B14 PKD G 8390/52 DG/GKS-B14	GKS 130/158	18000	5.50	5.24	315	170	160	158	130	80	170	674	8	182	235	M20x130	12	490
PKD 9390 DG/GKS-B14 PKD 9390/52 DG/GKS-B14	GKS 150/210	26000	4.41	4.17	386	130	200	210	150	100	130	754	10	154	288	M20x100	14	490
PKD G 9390 DG/GKS-B14 PKD G 9390/62 DG/GKS-B14 PKD G 9390/63 DG/GKS-B14	GKS 155/185	50000	3.80	3.70	430	230	200	195	155/160	95	140	904	10	240	320	M24x180	14	835

Daha iyi ve kolay montaj ve demontaj için konik sıktırmalı tavsiye edilebilir.

S = h6 veya f6 ile konik sıktırmanın güvenirliliği.
M_A = Civatayı sıkmak için gerekli olan tork
Z_S = Vida miktarı
M_{amax} = max. izin verilebilir çıkış momenti

Hs ölçüsü civata sıkılmadan önceki ölçüsüdür.
Konik sıktırmalı, genellikle kullanıcı milinin karşı tarafına montaj edilmelidir. Kullanıcı mil uzunluğu ile şaft uzunluğu (mH) örtüşmelidir. Şaft çapı ISO h6 veya f6'ya göre imal edilmelidir. (f6= Kolay montaj)

Yukarıdaki bütün ölçüler Helisel konik dişli- Tip W, Tip IEC ve Helisel konik dişli motorları için geçerlidir.

Mevcut tasarımlar için 26 - 38

PGR recommends to use shrink disc for easier installation and disassembly.

S = Assurance of shrink disc (with h6 and f6 tolerance)
M_A = Screw torque for tightening
Z_S = Amount of screw
M_{amax} = maximum allowable output moment

Hsvalues show dimension before tightening screw. When customer shaft is installed to the gear unit, shrink disc should be mounted on opposite side of it. Consider that, customer shaft must be equal 'mH' dimension which is length of hollow shaft and customer diameter shaft should be machined according to ISO h6 or f6 tolerances.

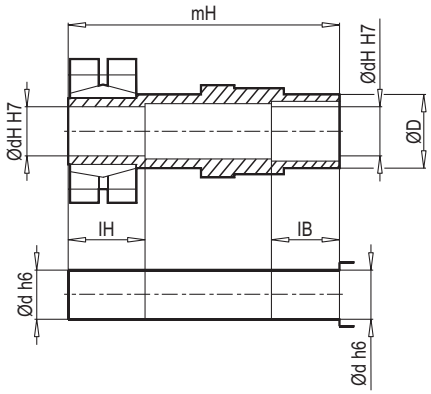
Dimension which are shown above of this page are used for all type helical-bevel gear units. (Type W, IEC adapter and helical-bevel geared motor)

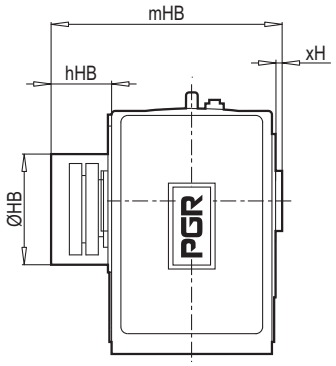
For existing designs 26 - 38

TR GÜÇLENDİRİLMİŞ KONİK SIKTIRMA KORUMA KAPAĞI

EN COVER OF REINFORCED SHRINK DISC

GKS - KK



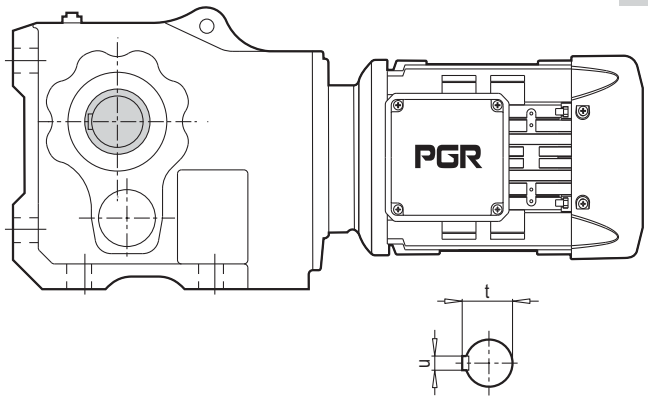


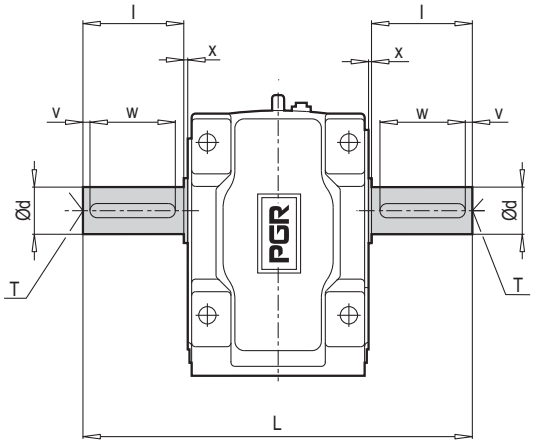
Tip / Type	ØD	ØdH H7	Ød h6	IB	IH	mH	xH	hHB	HB	mHB
PKD 6390 DG/GKS-B14 KK PKD 6390/32 DG/GKS-B14 KK PKD 6390/42 DG/GKS-B14 KK	110	85	85	80	110	464	5	149	260	489
PKD 7390 DG/GKS-B14 KK PKD 7390/32 DG/GKS-B14 KK PKD 7390/42 DG/GKS-B14 KK	120	95(85)	95(85)	80	110	464	5	149	260	489
PKD 8390 DG/GKS-B14 KK PKD 8390/42 DG/GKS-B14 KK PKD 8390/52 DG/GKS-B14 KK	140	110	110	80	160	587	8	210	308	615
PKD G8390 DG/GKS-B14 KK PKD G8390/52 DG/GKS-B14 KK	160	130	130	80	170	674	8	237	366	722
PKD 9390 DG/GKS-B14 KK PKD 9390/52 DG/GKS-B14 KK	200	150	150	100	130	754	10	237	366	830
PKD G 9390 DG/GKS-B14 KK PKD G 9390/62 DG/GKS-B14 KK PKD G 9390/63 DG/GKS-B14 KK	200	155	160	95	140	904	10	273	452	930

TR AYAK MONTAJLI, ÇİFT MİL ÇIKIŞLI

EN FOOT MOUNTED, SOLID SHAFT ON BOTH SIDES

ÇMA





Tip Type	Şaft ölçüleri Shaft dimensions								
	Ød	l	L	t	u	v	w	x	T
PKD A 0290 ÇMA	20	40	196	22.5	6	4	32	3	M6
PKD B 0290 ÇMA	20	40	214	22.5	6	4	32	3	M6
PKD C 1290 ÇMA	25	50	264	28	8	5	40	4	M10
PKD F 4290 ÇMA	30	60	290	33	8	5	50	4	M10
PKD H 5290 ÇMA	35	70	332	38	10	5	60	5	M12
PKD 1390 ÇMA PKD 1490 ÇMA	30	60	270	33.0	8	5	50	4	M10
PKD G 1390 ÇMA PKD G 1490 ÇMA	35	70	290	38.0	10	7	56	4	M12
PKD 2390 ÇMA PKD 2490 ÇMA	35	70	322	38.0	10	7	56	5	M12
PKD 3390 ÇMA PKD 3490 ÇMA	45	90	392	48.5	14	5	80	6	M16
PKD 4390 ÇMA PKD 4490 ÇMA	60	120	480	64.0	18	10	100	5	M20
PKD 5390 ÇMA PKD 5490 ÇMA	70	140	582	74.5	20	15	110	6	M20
PKD 6390 ÇMA PKD 6390/32 ÇMA PKD 6390/42 ÇMA	90	170	694	95.0	25	15	140	7	M24
PKD 7390 ÇMA PKD 7390/32 ÇMA PKD 7390/42 ÇMA	90	170	694	95.0	25	15	140	7	M24
PKD 8390 ÇMA PKD 8390/42 ÇMA PKD 8390/52 ÇMA	110	210	836	116.0	28	15	180	8	M24
PKD G 8390 ÇMA PKD G 8390/52 ÇMA	120	210	914	127.0	32	15	180	9	M24
PKD 9390 ÇMA PKD 9390/52 ÇMA	140	250	1110	148.0	36	15	220	10	M24
PKD G 9390 ÇMA PKD G 9390/42 ÇMA PKD G 9390/52 ÇMA	190	320	1314	200	45	10	300	10.5	M30

Lütfen sipariş verirken kama kanallarının pozisyonlarını belirtiniz.
Yukarıdaki bütün ölçüler Helisel konik dişli - Tip W, Tip IEC ve Helisel konik dişli motorları için geçerlidir.

Mevcut tasarımlar için 26 - 38

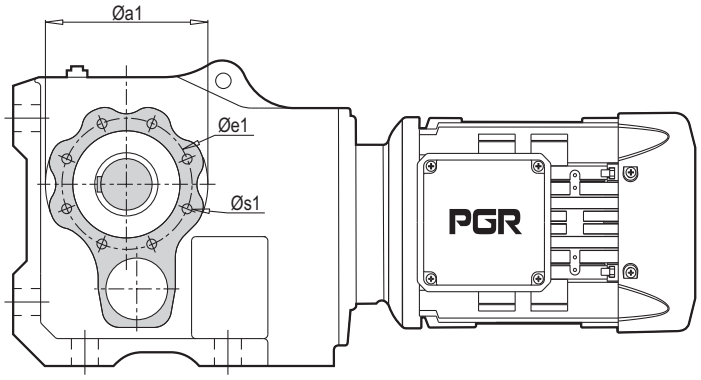
'w' and 'v' dimensions are important for aligned keyways.
For that reason, when you order, please determine this values. Dimensions which are shown above of this page are used for all type of helical-bevel gear units. (Type W, IEC adapter and helical bevel geared motor)

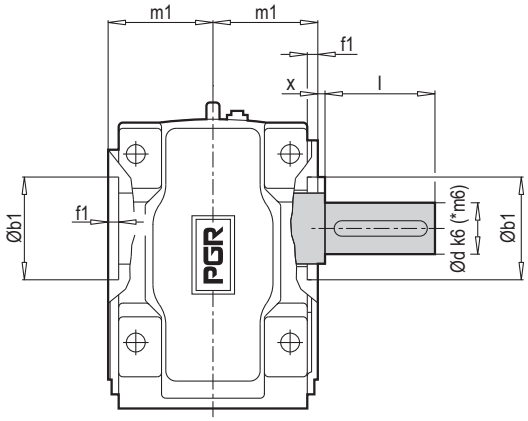
For existing designs 26 - 38

TR AYAK MONTAJLI, B14 FLANŞLI

EN FOOT MOUNTED, FLANGE B14

TMA - B14





Tip Type	Montaj ölçüleri Mounting dimensions					Ana Ölçüler Outline dimensions			
	a1	$b1^{j6}$	e1	f1	s1	m1	X	d	l
PKD 1390 TMA/B14 PKD 1490 TMA/B14	110	75	100	4	M8 x 13	71	4	30	60
PKD G 1390 TMA/B14 PKD G 1490 TMA/B14	110	75	100	4	M8 x 13	71	4	35	70
PKD 2390 TMA/B14 PKD 2490 TMA/B14	125	90	115	4	M8 x 13	86	5	35	70
PKD 3390 TMA/B14 PKD 3490 TMA/B14	150	100	130	5	M10 x 16	100	6	45	90
PKD 4390 TMA/B14 PKD 4490 TMA/B14	180	125	165	5	M12 x 20	115	5	*60	120
PKD 5390 TMA/B14 PKD 5490 TMA/B14	220	150	194	5	M12 x 20	145	6	*70	140
PKD 6390 TMA/B14 PKD 6390/32 TMA/B14 PKD 6390/42 TMA/B14	250	180	215	5	M12 x 20	170	7	*90	170
PKD 7390 TMA/B14 PKD 7390/32 TMA/B14 PKD 7390/42 TMA/B14	250	180	215	5	M12 x 20	170	7	*90	170
PKD 8390 TMA/B14 PKD 8390/42 TMA/B14 PKD 8390/52 TMA/B14	300	230	265	5	M12 x 20	200	8	*110	210
PKD G 8390 TMA/B14 PKD G 8390/52 TMA/B14	350	250	300	5	M16 x 25	238	9	*120	210
PKD 9390 TMA/B14 PKD 9390/52 TMA/B14	400	290	350	5	M20 x 30	295	10	*140	250
PKD G 9390 TMA/B14 PKD G 9390/62 TMA/B14 PKD G 9390/63 TMA/B14	480	310	400	5	M20 x 30	326.5	10.5	*190	320

Ayak montajlı ve her iki taraftan B14 flanşlı delik millller için de geçerlidir. Tip PKD 3390 DA/B14

Yukarıdaki bütün ölçüler Helisel konik dişli - Tip W, Tip IEC ve Helisel konik dişli motorları için geçerlidir.

Mevcut tasarımlar için 26 - 38

TMG/B14 için sayfa 115 -163. sayfalara bakınız.

Flange B14 which is used for hollow shaft on both sides is available for foot mounted designs. (e.g. PKD 3390 DA/B14)

Dimensions which are shown above of this page are used for all type of helical-bevel gear units. (Type W, IEC adapter and helical-bevel geared motor)

For existing designs 26 - 38

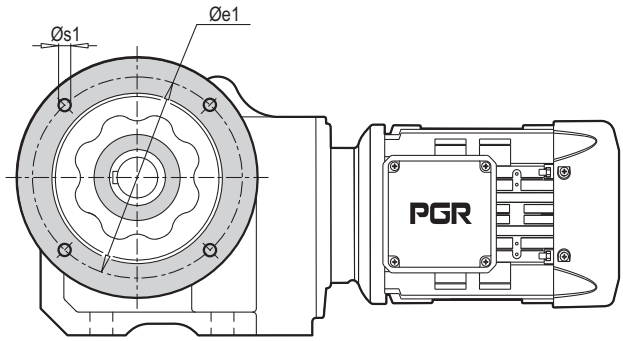
TR AYAK MONTAJLI, B5 FLANŞLI

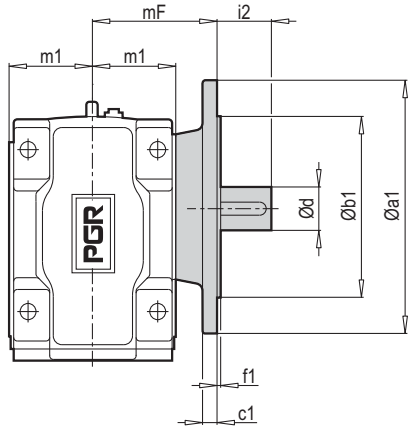
EN FOOT MOUNTED, FLANGE B5

TMA - B5

Bu tasarım gövdeden yapılacak montaj için uygun değildir. (Gövdeden montaj için Tip TMG/B5)

This B5 flange is not suitable for case mounted gear units. Consider that, if you use B5 flange on case mounted, you shoul look for B5 flange mounted pages. (e.g. Type TMG/B5)





Tip Type	Montaj ölçüleri Mounting dimensions						Ana Ölçüler Outline dimensions				
	a1	$b1^{j6(*h6)}$	c1	e1	f1	s1	İ2	m1	mF	d	l
PKD 1390 TMA/B5 PKD 1490 TMA/B5	160	110	12	130	3.5	9	44	71	101	30	60
PKD G 1390 TMA/B5 PKD G 1490 TMA/B5	160	110	12	130	3.5	9	44	71	101	35	70
PKD 2390 TMA/B5 PKD 2490 TMA/B5	200	130	12	165	3.5	11	40	86	121	35	70
PKD 3390 TMA/B5 PKD 3490 TMA/B5	250	180	16	215	4.0	14	56	100	140	45	90
PKD 4390 TMA/B5 PKD 4490 TMA/B5	300	230	20	265	4.0	14	80	115	160	60	120
PKD 5390 TMA/B5 PKD 5490 TMA/B5	350	250*	20	300	5.0	18	86	145	205	70	140
PKD 6390 TMA/B5 PKD 6390/32 TMA/B5 PKD 6390/42 TMA/B5	400	300*	20	350	5.0	18	112	170	235	90	170
PKD 7390 TMA/B5 PKD 7390/32 TMA/B5 PKD 7390/42 TMA/B5	400	300*	20	350	5.0	18	112	170	235	90	170

Delik millilerde de ayak montajlı ve B5 flanş montajı bulunabilir. Tip PKD 3390 DA/B5

Yukarıdaki bütün ölçüler Helisel konik dişli - Tip W, Tip IEC ve Helisel konik dişli motorları için geçerlidir.

Mevcut tasarımlar için 26 - 38

Flange B5 which is used for hollow shaft on both sides is available for foot mounted design. (e.g. PKD 3390 DA/B5)

Dimensions which are shown above of this page are used for all type of helical-bevel gear units. (Type W, IEC adapter and helical - bevel geared motor.)

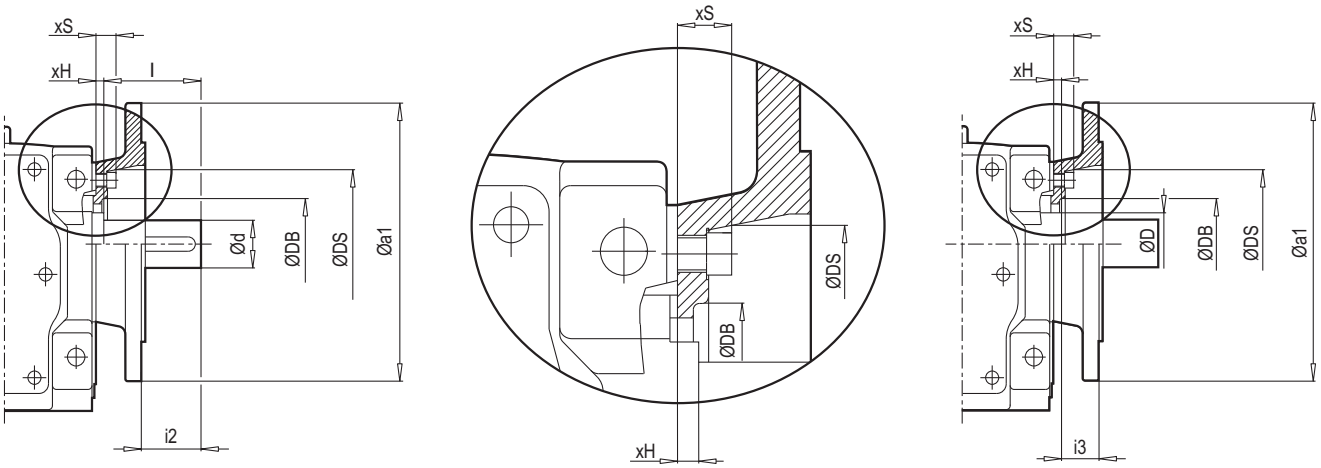
For existing designs 26 - 38

TR B5 FLANŞI ÖLÇÜLERİ

EN DIMENSION OF FLANGE B5

AYAK MONTAJLI B5 FLANŞLI / FOOT MOUNTED WITH B5 FLANGE

TMA - B5 / DA - B5



TMA **DA**

Tip Type	Flanş ø Flange ø	Şaft ölçüleri Shaft dimensions					Ana Ölçüler Outline dimensions				
	a1	d	l	x	D	xH	øDB	øDS	i2	i3	xS
PKD 1390 PKD 1490	160	30	60	4	45	3	76	100	34	27	17
PKD G 1390 PKD G 1490	160	30	60	4	45	3	76	100	34	27	17
PKD 2390 PKD 2490	200	35	70	5	50	4	77	115	40	31	17
PKD 3390 PKD 3490	250	45	90	6	70	5	90	130	56	35	20
PKD 4390 PKD 4490	300	60	120	5	80	5	115	165	80	40	24
PKD 5390 PKD 5490	350	70	140	6	100	5	135	185	86	55	27
PKD 6390 PKD 6390/32 PKD 6390/42	400	90	170	7	110	5	165	220	112	60	27
PKD 7390 PKD 7390/32 PKD 7390/42	400	90	170	7	110	5	165	220	112	60	27

Yukarıdaki bütün ölçüler Helisel konik dişli - Tip W, Tip IEC ve Helisel konik dişli motorları için geçerlidir.

Dimensions which are shown above of this page are used for all type of helical bevel gear units. (Type W, IEC adapter and helical - bevel geared motor.)

Mevcut tasarımlar için → 26 - 38

For existing designs → 26 - 38

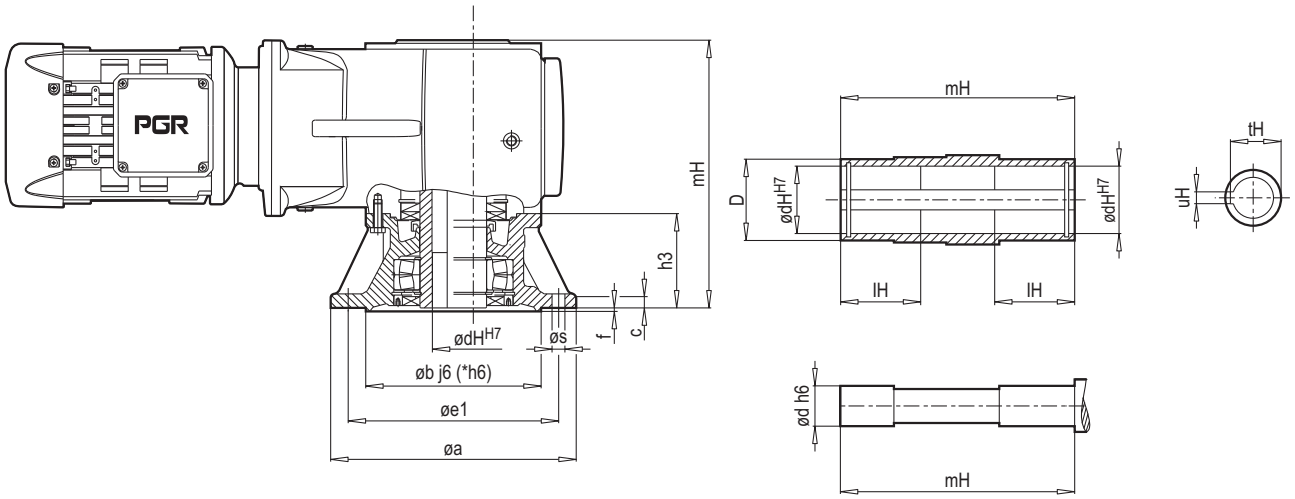
TR GÜÇLENDİRİLMİŞ B5 FLANŞI

EN REINFORCED FLANGE B5

GB5

PGR özellikle karıştırıcılarda kullanılan şaftların rulman mesafelerinin artması sebebiyle güçlendirilmiş B5 flanşı kullanarak şaftın rulman arası mesafelerini arttırmıştır. Bu tasarım daha uzun rulman ömrü ile birlikte yüksek radyal ve eksenel kuvvetlerin absorbe edilmesini sağlar. Özellikle oynak makaralı rulmanlar uzun karıştırıcı şaftların eksenel kaçıklıklarını karşılayabilirler. Bu aksesuar gövdeden montajlı tiplerde kullanılmaktadır.

Longer shaft is used at agitator application that is caused increasing bearing distance for that reason, PGR is increased bearing distance with using reinforced B5 flange at that design. Reinforced B5 flange design provides longer bearing life and could be used where high radial and axial load is effected to the gear unit. Due to increasing bearing distance and absorbing high radial and axial load spherical roller bearing are used however it is useful for recuperating misalignment at long shaft. These accessories are used case mounting versions.

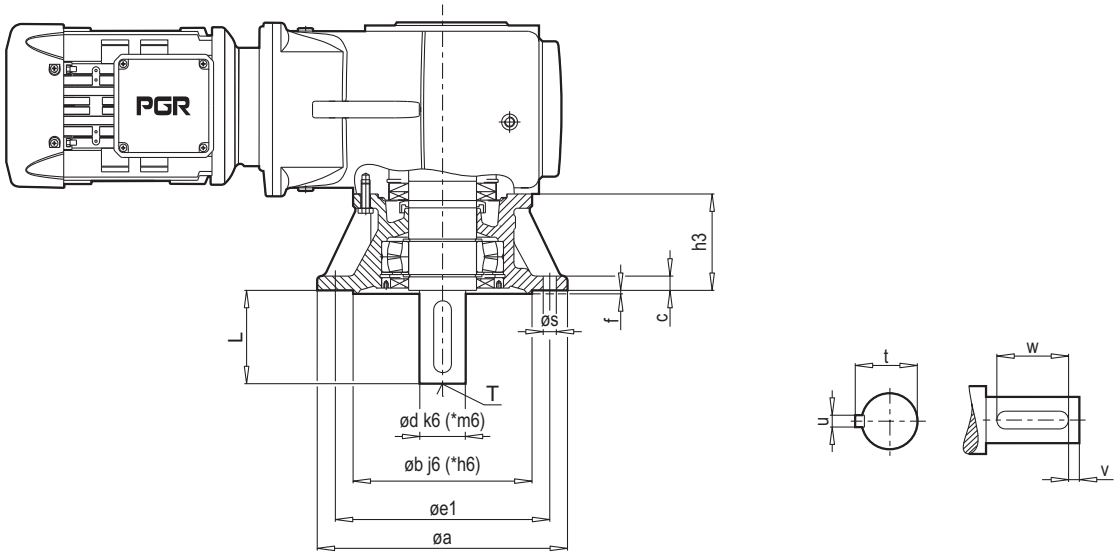


TİP / TYPE	a	b	c	e1	f	h3	s	uH	tH	mH	dH^{H7}	lH
PKD 1390 DG/GB5 PKD 1490 DG/GB5	200	130	12	165	3.5	75	4 x 11	10	38.5	218	35	50
PKD 2390 DG/GB5 PKD 2490 DG/GB5	250	180	16	215	4.0	86	4 x 13.5	12	43.5	258	40	60
PKD 3390 DG/GB5 PKD 3490 DG/GB5	300	230	20	265	4.0	85	4 x 14	14	54.0	287	50	70
PKD 4390 DG/GB5 PKD 4490 DG/GB5	350	*250	20	300	5.0	135	4 x 18	18	64.5	362.5	60	80
PKD 5390 DG/GB5 PKD 5490 DG/GB5	400	*300	22	350	5.0	166	4 x 18	20	75.0	457	70	100
PKD 6390 DG/GB5 PKD 6390/32 DG/GB5 PKD 6390/42 DG/GB5	450	*350	24	400	5.0	184	8 x 18	22	85.5	524	80	120
PKD 7390 DG/GB5 PKD 7390/32 DG/GB5 PKD 7390/42 DG/GB5	450	*350	24	400	5.0	184	8 x 18	22	85.5	524	80	120
PKD 8390 DG/GB5 PKD 8390/42 DG/GB5 PKD 8390/52 DG/GB5	550	*450	28	500	5.0	210	8 x 18	28	116.5	615	110	140
PKD G8390 DG/GB5 PKD G8390/52 DG/GB5	660	*550	32	600	6.0	262	8 x 22	32	127.5	747	120	160

TR GÜÇLENDİRİLMİŞ B5 FLANŞI

EN REINFORCED FLANGE B5

GB5

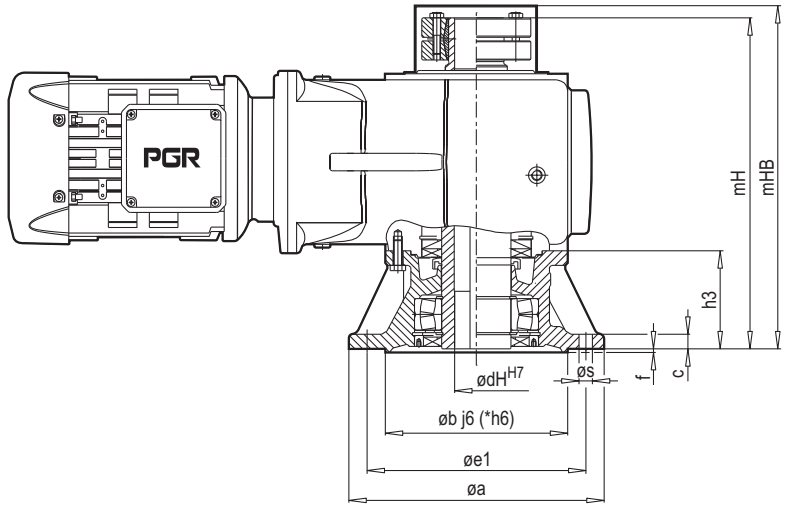


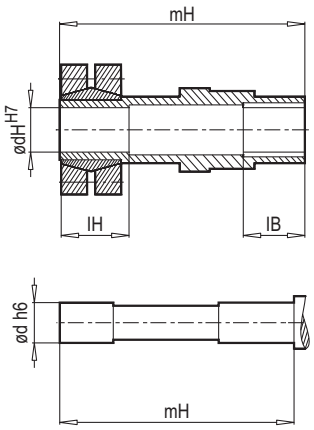
TİP / TYPE	a	b	c	e1	f	h3	s	d	L	t	u	v	w	T
PKD 1390 TMG/GB5 PKD 1490 TMG/GB5	200	130	12	165	3.5	75	4 x11	30	60	33.0	8	5	50	M10
PKD 2390 TMG/GB5 PKD 2490 TMG/GB5	250	180	16	215	4.0	86	4 x 13.5	35	70	38.0	10	7	56	M12
PKD 3390 TMG/GB5 PKD 3490 TMG/GB5	300	230	20	265	4.0	85	4 x 14	45	90	48.5	14	5	80	M16
PKD 4390 TMG/GB5 PKD 4490 TMG/GB5	350	*250	20	300	5.0	135	4 x 18	*65	130	69.0	18	15	100	M20
PKD 5390 TMG/GB5 PKD 5490 TMG/GB5	400	*300	22	350	5.0	166	4 x 18	*75	140	79.5	20	7.5	125	M20
PKD 6390 TMG/GB5 PKD 6390/32 TMG/GB5 PKD 6390/42 TMG/GB5	450	*350	24	400	5.0	184	8 x 18	*90	170	95.0	25	15	140	M24
PKD 7390 TMG/GB5 PKD 7390/32 TMG/GB5 PKD 7390/42 TMG/GB5	450	*350	24	400	5.0	184	8 x 18	*90	170	95.0	25	15	140	M24
PKD 8390 TMG/GB5 PKD 8390/42 TMG/GB5 PKD 8390/52 TMG/GB5	550	*450	28	500	5.0	210	8 x 18	*110	210	116.0	28	15	180	M24
PKD G8390 TMG/GB5 PKD G8390/52 TMG/GB5	660	*550	32	600	6.0	262	8 x 22	*120	210	127.0	32	15	180	M24
PKD 9390 TMG/GB5 PKD 9390/52 TMG/GB5	660	*550	32	600	6.0	262	8 x 22	*140	250	148.0	36	25	200	M24
PKD G 9390 TMG/GB5 PKD G 9390/62 TMG/GB5 PKD G 9390/63 TMG/GB5	660	*550	35	600	8.0	302	8 x 26	*190	320	200.0	45	10	300	M30x60

TR KONİK SIKTIRMALI GÜÇLENDİRİLMİŞ B5 FLANŞI

EN REINFORCED FLANGE B5 WITH SHRINK DISC

KS - GB5



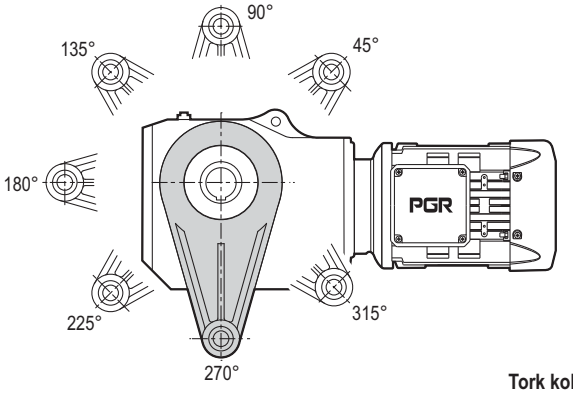


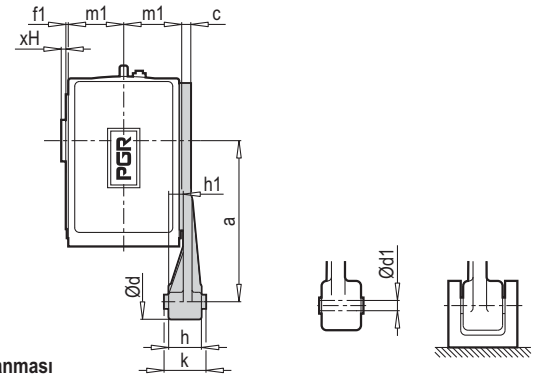
TİP / TYPE	a	b	c	e1	f	h3	s	dH / d	mH	mHB	lB	lH
PKD 1390 DG/KS-GB5 PKD 1490 DG/KS-GB5	200	130	12	165	3.5	75	4 x 11	35	263	278	41	40
PKD 2390 DG/KS-GB5 PKD 2490 DG/KS-GB5	250	180	16	215	4.0	86	4 x 13.5	40	308	319	41.5	44
PKD 3390 DG/KS-GB5 PKD 3490 DG/KS-GB5	300	230	20	265	4.0	85	4 x 14	50	337	355	51.5	46
PKD 4390 DG/KS-GB5 PKD 4490 DG/KS-GB5	350	*250	20	300	5.0	135	4 x 18	60	427.5	446	61.5	58
PKD 5390 DG/KS-GB5 PKD 5490 DG/KS-GB5	400	*300	22	350	5.0	166	4 x 18	70	537	558	71	74
PKD 6390 DG/KS-GB5 PKD 6390/32 DG/KS-GB5 PKD 6390/42 DG/KS-GB5	450	*350	24	400	5.0	184	8 x 18	80	609	629	81	82
PKD 7390 DG/KS-GB5 PKD 7390/32 DG/KS-GB5 PKD 7390/42 VLB5/KS	450	*350	24	400	5.0	184	8 x 18	80	609	629	81	82
PKD 8390 DG/KS-GB5 PKD 8390/42 DG/KS-GB5 PKD 8390/52 DG/KS-GB5	550	*450	28	500	5.0	210	8 x 18	110	695	734	81	74
PKD G8390 DG/KS-GB5 PKD G8390/52 DG/KS-GB5	660	*550	32	600	6.0	262	8 x 22	125	851	892	81	98
PKD 9390 DG/KS-GB5 PKD 9390/52 DG/KS-GB5	660	*550	32	600	6.0	262	8 x 22	150	955	998	101	98
PKD G 9390 DG/KS-GB5 PKD G 9390/62 DG/KS-GB5 PKD G 9390/63 DG/KS-GB5	660	*550	35	600	8.0	302	8 x 26	160/155	1089	1134	95	140

TR TORK KOLU

EN TORQUE ARM

TK





Tork kolunun pozisyonlanması
Positions of torque arm

PKD 1390 DG/TK … 7390 DG/TK için 45°…270° / PKD 1390 DG/TK … 7390 DG/TK for 45°…270°
PKD B0290 DG/TK … H5290 DG/TK için 90°…315° / PKD B0290 DG/TK … H5290 DG/TK for 90°…315°

TİP / TYPE	**Montaj Ölçüleri** Mounting Dimensions								**Ana Ölçüler** Outline Dimensions	
	a	**c**	**d**	**d1**	**f1**	**h**	**h1**	**k**	**m1**	**xH**
PKD A 0290 DG/TK	--	--	--	--	--	--	--	--	55	3
PKD B 0290 DG/TK	120	10	40	10.5	3	32	10	36	62	4
PKD C 1290 DG/TK	160	14	40	10.5	3	32	11.5	36	75	4
PKD F 4290 DG/TK	160	14	40	10.5	3	32	11.5	36	78	4
PKD H 5290 DG/TK	200	14	60	16.5	4	56	26	60	87	5
PKD 1390 DG/TK **PKD 1490 DG/TK**	160	16	40	10.5	3	32	11.5	36	68	3
PKD G 1390 DG/TK **PKD G 1490 DG/TK**	160	16.5	40	10.5	3	32	11.5	36	68	3
PKD 2390 DG/TK **PKD 2490 DG/TK**	200	16.5	60	16.5	4	56	26	60	82	4
PKD 3390 DG/TK **PKD 3490 DG/TK**	250	20.5	60	16.5	3	56	22	60	97	5
PKD 4390 DG/TK **PKD 4490 DG/TK**	300	24	80	25	7	92	42	100	108	5
PKD 5390 DG/TK **PKD 5490 DG/TK**	350	26.5	80	25	4	92	42	100	141	5
PKD 6390 DG/TK **PKD 6390/32 DG/TK** **PKD 6390/42 DG/TK**	450	28	80	25	5	92	42	100	165	5
PKD 7390 DG/TK **PKD 7390/32 DG/TK** **PKD 7390/42 DG/TK**	450	28	80	25	5	92	42	100	165	5

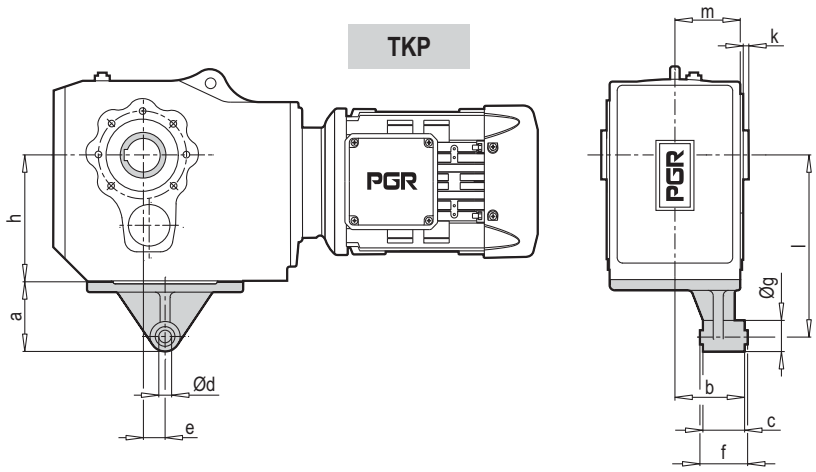
Sipariş verirken tork kolunun pozisyonunu belirtiniz (Örn. 270°).
Tork kolu L yada R tarafına bağlanabilir.

Determine position of torque arm when commission. (e.g. 270°).
Determine mounted and connecting position for instance side L or side R of gear unit when you commission.

TR TORK KOLU PLATFORMU

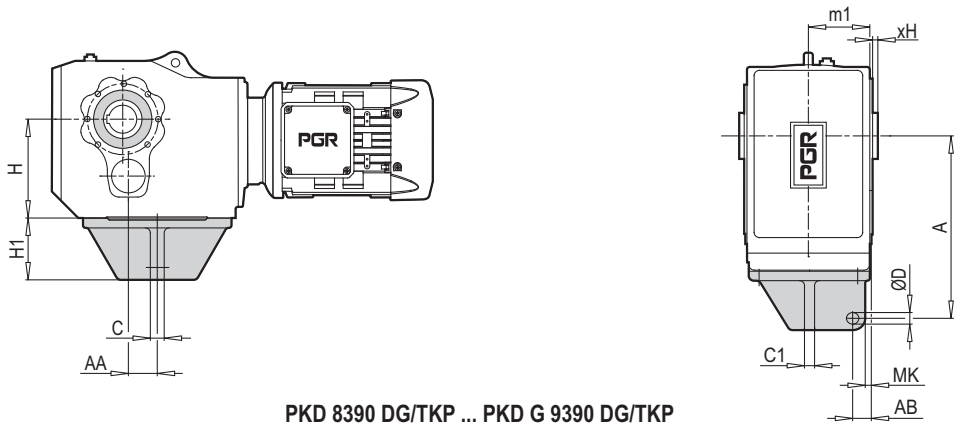
EN TORQUE ARM PLATFORM

TKP



PKD 1390 DG/TKP ... PKD 7390 DG/TKP

TİP / TYPE	a	b	c	Ød	e	f	Øg	h	k	l	m
PKD 1390 DG/TKP PKD 1490 DG/TKP PKD G 1390 DG/TKP PKD G 1490 DG/TKP	70.5	52	32	10.5	30	36	45	112	3	160	68
PKD 2390 DG/TKP PKD 2490 DG/TKP	87	65	56	16.5	45	60	60	143	4	200	82
PKD 3390 DG/TKP PKD 3490 DG/TKP	100	80	56	16.5	52.5	60	60	180	5	250	97
PKD 4390 DG/TKP PKD 4490 DG/TKP	123	89	92	25	60	100	80	217	5	300	108
PKD 5390 DG/TKP PKD 5490 DG/TKP	128	110	92	25	70	100	80	262	5	350	141
PKD 6390 DG/TKP	175	130	92	25	74	100	80	315	5	450	165
PKD 7390 DG/TKP	175	130	92	25	74	100	80	315	5	450	165



PKD 8390 DG/TKP ... PKD G 9390 DG/TKP

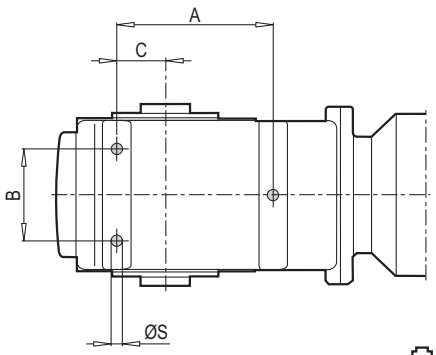
Tip Type	Montaj Ölçüleri Mounting Dimensions									Ana Ölçüler Outline Dimensions	
	TKP										
	A	AA	AB	C	C1	D	H	H1	MK	m1	xH
PKD 8390 DG/TKP PKD 8390/42 DG/TKP PKD 8390/52 DG/TKP	550	75	95	56	30	31	375	225	45	195	8
PKD G 8390 DG/TKP PKD G 8390/52 DG/TKP	650	55	95	56	40	31	450	250	5	235	8
PKD 9390 DG/TKP PKD 9390/52 DG/TKP	700	80	108	56	40	31	500	250	58	288	10
PKD G 9390 DG/TKP PKD G 9390/62 DG/TKP PKD G 9390/63 DG/TKP	900	70	140	80	50	52	600	300	45	320	10.5

TR TORK KOLU PLATFORMU DELİKLERİ

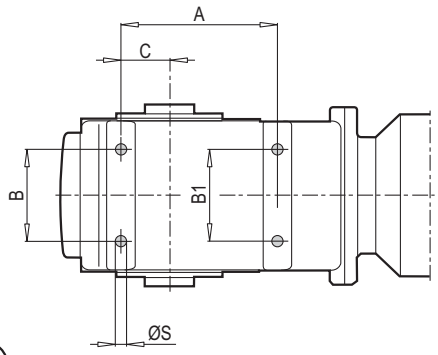
EN TORQUE ARM PLATFORM HOLES

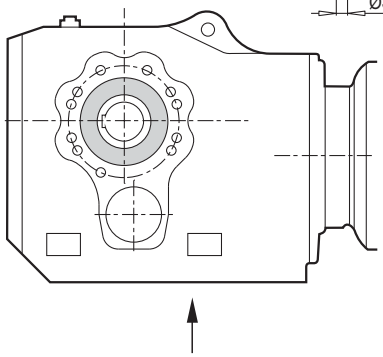
GÖVDEDEN MONTAJLI / CASE MOUNTED

PKD 1390...PKD 5390



PKD 6390...PKD G 9390





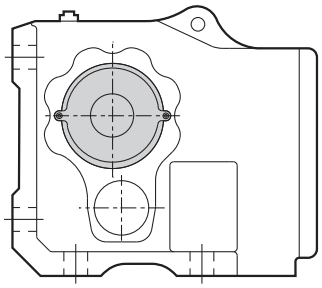
TİP TYPE	A	B	B1	C	ØS
PKD 1390 DG/TKP PKD 1490 DG/TKP	152	60	-	35	M10x16
PKD G 1390 DG/TKP PKD G 1490 DG/TKP	152	60	-	35	M10x16
PKD 2390 DG/TKP PKD 2490 DG/TKP	152	100	-	42	M12x20
PKD 3390 DG/TKP PKD 3490 DG/TKP	190	110	-	55	M12x20
PKD 4390 DG/TKP PKD 4490 DG/TKP	220	130	-	68	M16x25
PKD 5390 DG/TKP PKD 5490 DG/TKP	277	185	-	92	M16x25
PKD 6390 DG/TKP PKD 6390/32 DG/TKP PKD 6390/42 DG/TKP	345	220	170	120	M20x30
PKD 7390 DG/TKP PKD 7390/32 DG/TKP PKD 7390/42 DG/TKP	290	190	190	100	M24x36
PKD 8390 DG/TKP PKD 8390/42 DG/TKP PKD 8390/52 DG/TKP	430	260	260	140	M24x36
PKD G 8390 DG/TKP PKD G 8390/52 DG/TKP	430	320	320	160	M36x55
PKD 9390 DG/TKP PKD 9390/52 DG/TKP	520	400	400	180	M36x55
PKD G 9390 DG/TKP PKD G 9390/62 DG/TKP PKD G 9390/63 DG/TKP	580	440	440	220	M42x72

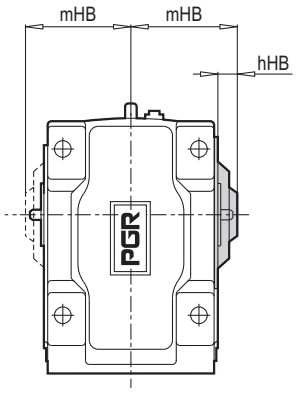
TR KORUMA KAPAĞI

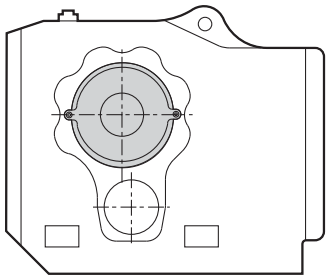
EN COVER

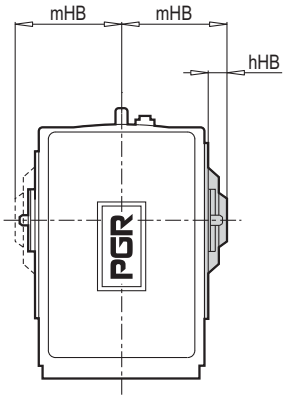
Delik milli şaft koruma kapağı
Cover cup for hollow shaft

Tip Type	Montaj ve Ana Ölçüleri Outline and Mounting Dimensions	
	hHB	mHB
PKD A 0290 DA PKD A 0290 DG	35	87.5
PKD B 0290 DA PKD B 0290 DG	38	100
PKD C 1290 DA PKD C 1290 DG	43	118
PKD F 4290 DA PKD F 4290 DG	43	121
PKD H 5290 DA PKD H 5290 DG	45	132
PKD 1390 DA PKD 1490 DA	38	109
PKD 1390 DG PKD 1490 DG	43	111
PKD G 1390 DA PKD G 1490 DA	38	109
PKD G 1390 DG PKD G 1490 DG	43	111
PKD 2390 DA PKD 2490 DA	43	129
PKD 2390 DG PKD 2490 DG	45	127
PKD 3390 DA PKD 3490 DA	45	145
PKD 3390 DG PKD 3490 DG	48	145
PKD 4390 DA PKD 4490 DA	46	161
PKD 4390 DG PKD 4490 DG	56	164
PKD 5390 DA PKD 5490 DA	48	193
PKD 5390 DG PKD 5490 DG	61	202
PKD 6390 DA	55	225
PKD 6390 DG	64	229
PKD 7390 DA	55	225
PKD 7390 DG	64	229
PKD 8390 DA	62	262
PKD 8390 DG	67	262
PKD G 8390 DA	55	293
PKD G 8390 DG	86	321



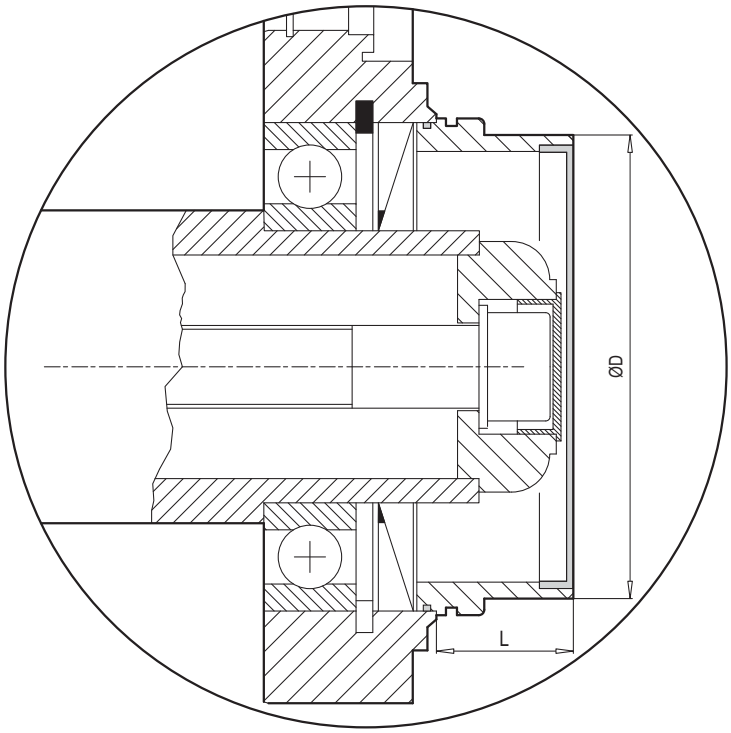






TR IP 66 UYGULAMASI

EN PROTECTION IP 66



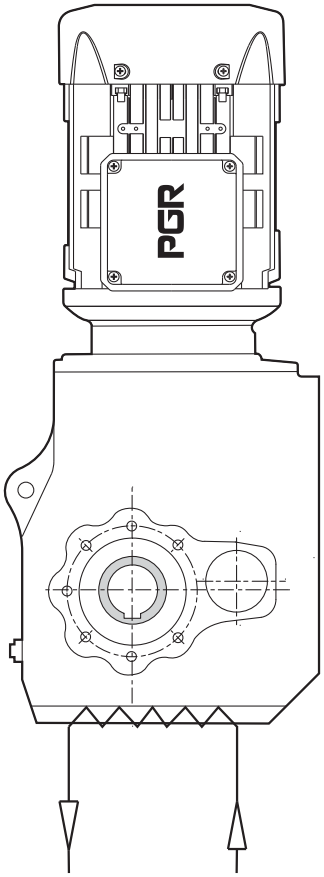
Tip Type		ØD	L
PKD 1390 DA - KK 66	PKD 1490 DA - KK 66	81	25
PKD 1390 DG/B14 - KK 66	PKD 1490 DG/B14 - KK 66	86	28
PKD G 1390 DA - KK 66	PKD G 1490 DA - KK 66	81	25
PKD G 1390 DG/B14 - KK 66	PKD G 1490 DG/B14 - KK 66	86	28
PKD 2390 DA - KK 66	PKD 2490 DA - KK 66	96	30
PKD 2390 DG/B14 - KK 66	PKD 2490 DG/B14 - KK 66	105	35
PKD 3390 DA - KK 66	PKD 3490 DA - KK 66	105	35
PKD 3390 DG/B14 - KK 66	PKD 3490 DG/B14 - KK 66	116	35
PKD 4390 DA - KK 66	PKD 4490 DA - KK 66	146	35
PKD 4390 DG/B14 - KK 66	PKD 4490 DG/B14 - KK 66	146	38
PKD 5390 DA - KK 66	PKD 5490 DA - KK 66	155	38
PKD 5390 DG/B14 - KK 66	PKD 5490 DG/B14 - KK 66	189	38
PKD 6390 DA - KK 66		189	38
PKD 6390 DG/B14 - KK 66		189	35
PKD 7390 DA - KK 66		189	38
PKD 7390 DG/B14 - KK 66		216	35
PKD 8390 DA - KK 66		246	45
PKD 8390 DG/B14 - KK 66		261	50
PKD G 8390 DA - KK 66		261	55
PKD G 8390 DG/B14 - KK 66		316	50

TR SU SOĞUTMALI

Entegre edilmiş bir ısı dönüştürücüsü, helisel konik dişli üniteleri ve paralel dişli ünitelerinde isteğe bağlı olarak mevcuttur. Dişli ünitesini soğutan soğutma suyu ısı dönüştürücüsü içinden akar. PGR, redüktör sıcaklığının ve soğutma suyunun akışının izlenmesini önerir. Soğutma bobini, yağ odası içinde bulunmamaktadır, PGR su soğutması. Soğutma suyu patlayıcı çalışma ortamlarında çalışması uygundur. Düşük sıcaklıklarda, ısı dönüştürücüsü, dişli ünitesine ısı sağlayabilir.

EN WATER COOLING

For cooling gear unit, conjugate heat exchanger is available optionally. (This design exist for helical-bevel and parallel shaft gear units.) Consider that, PGR suggests that cooling water flow and temperature of gear unit should be checked because, coil of heat exchanger is on the cup of gear unit. Heat transfer from oilor gear unit to cooling water should be monitored. This design could be used in explosive areas. Heat exchanger might be supplied heat to the gear unit in low temperature.



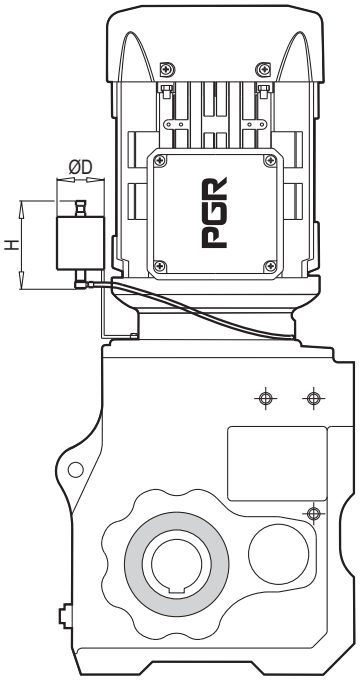
Su soğutma ünitesinin kullanılabileceği montaj pozisyonları
Table shows that suitability of water cooling for which mounting positions

Tip / Type	**Montaj Pozisyonları** / Mounting Positions					
	M1	**M2**	**M3**	**M4**	**M5**	**M6**
PKD 8390			✓	✓		
PKD G 8390			✓	✓		
PKD 9390			✓	✓		
PKD G 9390			✓	✓		

TR M4 MONTAJ POZİSYONU İÇİN İLAVE YAĞ HACMİ

EN ADDITIONAL LUBRICANT VOLUME FOR MOUNTING POSITION M4

Tip Type	**Boyut** Size	**ØD [mm]**	**H [mm]**	**[kg]**
PKD 4390 / PKD 4490	**I**	100	180	6
PKD 5390 / PKD 5490				
PKD 6390	**II**	150	300	7
PKD 7390				
PKD 8390				
PKD G 8390	**III**	180	300	8
PKD 9390				
PKD G 9390				



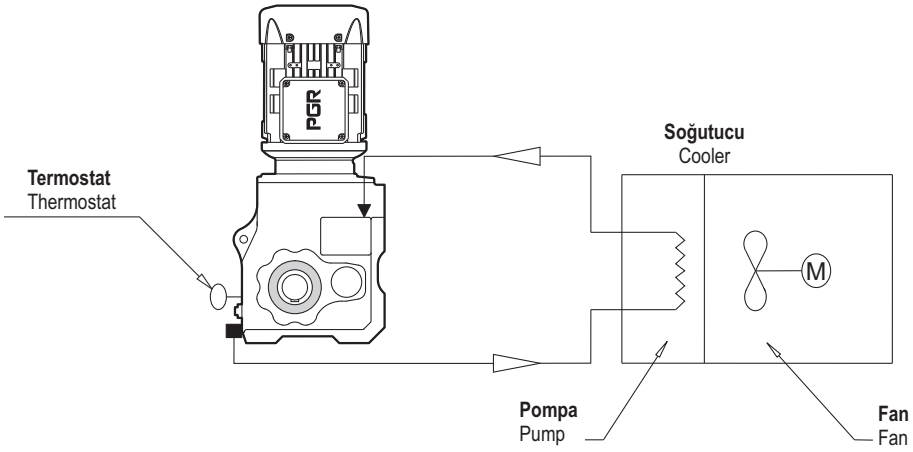
Bu ilave yağ hacim ünitesinin kullanılması dikey montaj pozisyonlarında (M4) ve kötü çalışma şartları altında bile havalandırma tapasından yağ sızmasını önler. Dikey çalışma ortamlarında redüktör içindeki yağ köpüklenme yapabilir ve bu ünite ilave bir hacim sağlar. İlave yağ hacim ünitesi, tahvil oranı 20' den küçük helisel konik dişli üniteler PKD 4390 ve daha üst gövdelerin dikey montaj pozisyonu uygulamalarında kullanımı önerilir.

41 - 42

Additional lubricant volume unit uses for preventing oil laekage from venting plug when gear unit is mounted with M4 mounting position. It is important because at vertical mounting position oil could be foamed. PGR suggest that additional lubrication volume units should be used where gear reduction is less than 20 and for polat helical bevel gear unit series such as PKD 4390 and greater case when M4 vertical mounting position is applied.

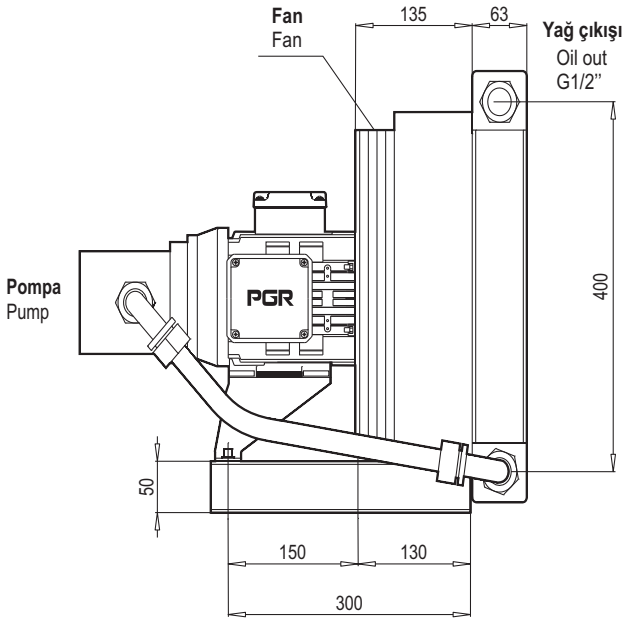
41 - 42

TR YAĞ SOĞUTMALI



■ Çıkış = Emme hattı ▼ Yağ seviyesi = Basınç hattı

Dişli ünitesi yağı, bir pompa tarafından çekilir ve bir ısı dönüştürücüsü boyunca akar. Yağ, bir fan tarafından yaratılan bir hava akımı ile soğutulur. Yağ, ısı dönüştürücünün dışına taşınır ve tekrar haznesine geri gönderilir. Sıcaklık bir termostat tarafından kontrol edilir. PGR, sıcaklığın izlenmesini önerir.



* **Potansiyel patlayıcı atmosferli alanlar için uygun değildir.**

Dizayn

Soğutucu	: TFS/A 8,5-400-F-03-11
Düşürme	: Dış 1/2"/ iç 3/4"
Motorlar	: Spannung 3x400 V
Çıkış gücü	: 0,55 kW
Akım	: 1,7 A
Hız	: 1350 d/dk
Koruma sınıfı	: IP 55
Yalıtım sınıfı	: F
Sıcaklık sınıfı	: B

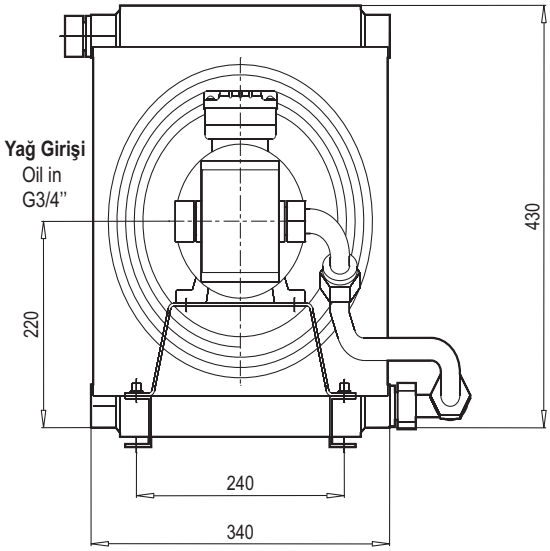
Aşağıdaki özelliklerde mevcuttur:

- Özel voltaj 60 HZ - Özel motor
  Ağırlık : 35 kg

EN OIL COOLING

■ Outlet = Suction line ▼ Oil level = Pressure line

Picture which is above on this page shows cycle of the cooling unit. There is a thermostat on the gear unit for checking oil temperature. Oil flows from suction line to pressure line which is provided by pump. In this way, oil temperature is cooled down by a fan which is supplying air flow to the coil. Then, oil flows to the house of gear unit.



* **Not suited for areas with potantially explosive atmospheres**

Design

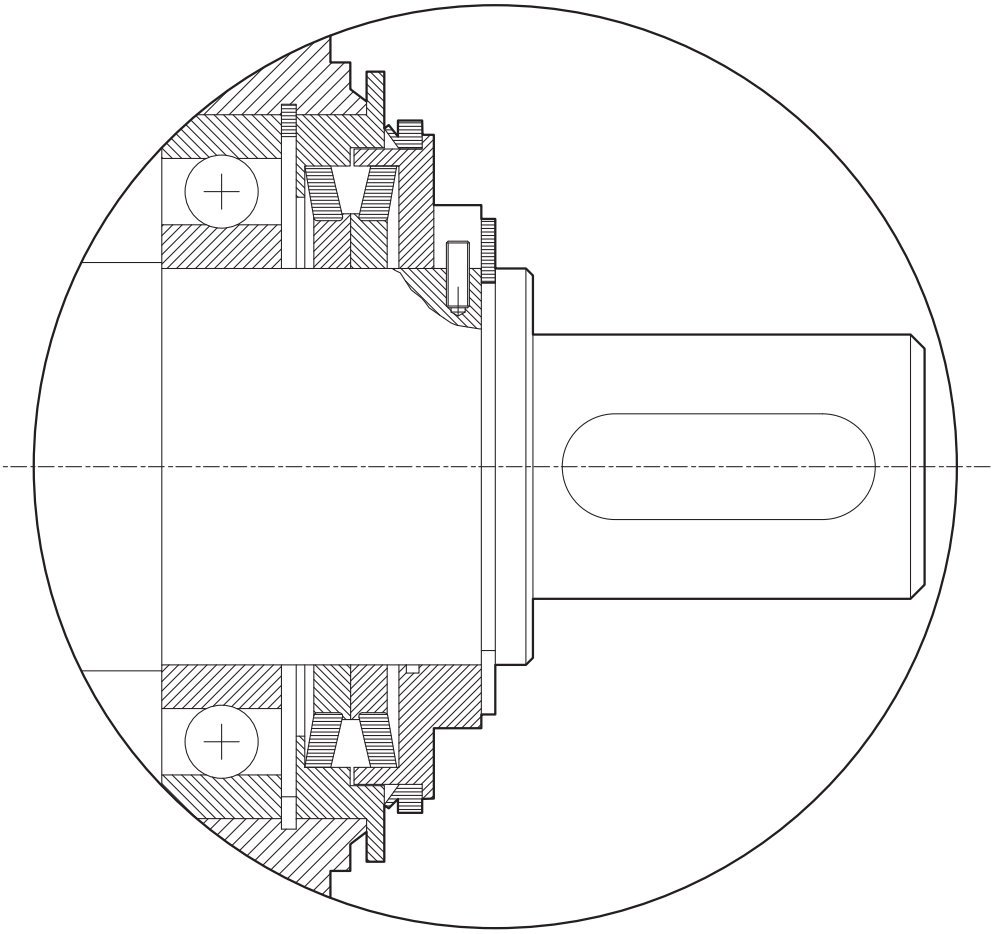
Cooler	: TFS/A 8,5-400-F-03-11
Reduction	: Out 1/2"/ in 3/4"
Motors	: Spannung 3x400 V
Output Power	: 0,55 kW
Rated Current	: 1,7 A
Speed	: 1350 rpm
Protection Class	: IP 55
Insulation Class	: F
Temperature Class	: B

Available with:

- Special voltage 60 HZ - Special motor
  Weight : 35 kg

TR MEKANİK KEÇE

EN MECHANICAL SEAL

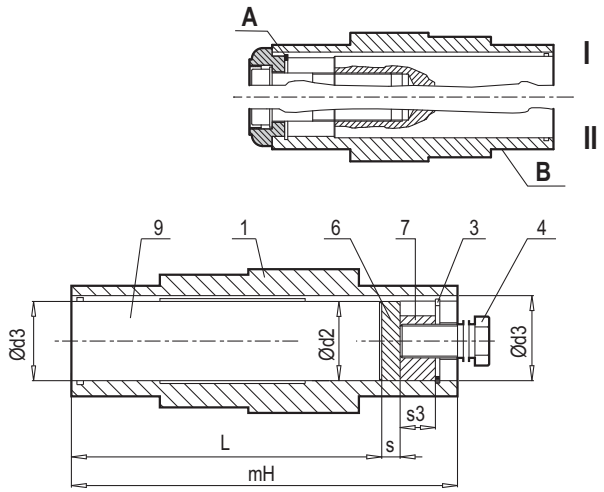


Özellikle aşırı çalışmalarda ve çok kötü çalışma koşullarında uygundur. Daldırmalı veya sulu çalışma ortamlarından etkilenmemektedir. Bu keçe tipi dış çevre koşullarından kesin koruma sağlar.

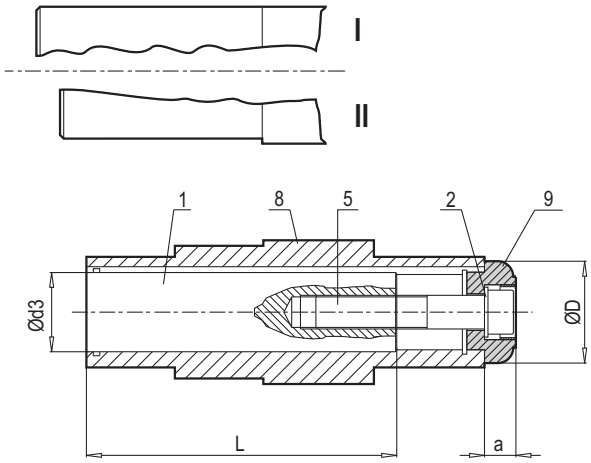
Seals are important for prevent oil leakage from gear unit and protect from environment. In hazardous environment and extreme operation conditions sealing must be considered. For that reason mechanical seals are applicable for using at hazardous environment, submerged operation.

TR ÇEKTİRME

Çektirme elemanları
Çektirme elemanlar, şaft montajlı dişli ünitelerinde opsiyonel olarak bulunur.
Kullanım Şartları:
- Kullanılacak milin merkezinde DIN 332/2 standardında bir delik açılmalı.
- Mil, faturalı yada faturasız olsa da, çektirme elemanları ile sabitlenebilir.
- I 'deki montaj kullanıldığında, mil, şaftın içinde bulunan segman ile tutturulur. (Parça A)
- II 'deki montaj kullanıldığında,milin üzerinde bulununan bilezik (manşon) kullanılarak doğrudan delik mil üzerine tutturulur.(Parça B)



DEMONTAJ / DISASSEMBLY



MONTAJ / ASSEMBLY

L= max. kullanıcı şaft boyu
L= maximum length of the solid shaft

1) Kullanıcı mili
2) Rondela DIN 127
3) * İç Segman DIN 472
4) * Çektirme civatası
5) Alyan başlı civata DIN 912
6) * Yaylı rondela
7) * Somun
8) Delik mil
9) Disk
*Dikkat, yıldızlı ürünler PGR tarafından temin edilmez.

DEMONTAJ:
1) Alyanbaşlı civatayı sökünüz. (poz.5)
2) Diski çıkarınız. (poz.9)
3) Yaylı rondelayı takınız. (poz.6)
4) Somunu yerleştiriniz. (poz.7)
5) Segmanı takınız. (poz.3)
6) Çektirme civatasını basarak çevirerek kullanıcı milini şafttan ayırınız. (poz.4)

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

MONTAJ:
1) Kullanıcı milini şaftın içerisine yerleştiriniz. (poz.8)
2) Diski (poz.9) şaftın içerisine yerleştiriniz.
3) Disk ile alyan başlı civata ve rondelayı sabitleyiniz. (poz.2-5)
Yukarıdaki bütün ölçüler helisel konik dişli - Tip W, Tip IEC ve Helisel konik dişli motorları için geçerlidir.

EN FIXING AND FORCING ELEMENTS

Fixing elements
This is used for shaft mounted designs and it should be specified when ordering because there are some requirements for use.
Using conditions:
- Centre bore must be machined appropriately DIN 332/2.
- Solid shaft could be mounted either with a shaft shoulder (II) or without shaft shoulder (I)
- Solid shaft which is without shaft shoulder is mounted with using retainin ring (A)
- Solid shaft which is with shaft shoulder is mounted with using spacer

1) Customer's shaft
2) Washer DIN 127
3) * Circlip DIN 472
4) * Jacking screw
5) Socket head screw DIN 912
6) * Thrust washer
7) * Jacking nut
8) Hollow shaft
9) Disc
*Star signs are shown this item are not provided by PGR

DISASSEMBLING:
1) Loosen the socket head screw (5)
2) Remove disc (9)
3) Immerse thrust washer (6)
4) Tuck jacking nut (7)
5) Mount circlip (3)
6) Remove solid shaft from hollow shaft with using jacking screw (4)

REQUIREMENTS:
Solid shaft which is connected to the hollow shaft, must have machined with a centre bore according to DIN 332/2. Consider that 'Lmax' length is important for jacking not using solid shaft's length must not greater than 'Lmax'.

ASSEMBLING:
1) Immerse customer shaft to the hollow shaft (8)
2) Mount disc to the hollow shaft (9)
3) Fasten disc and washer (2) by tightening socket head screw (5)
Dimensions which are shown above of this page are used for all type of helical-bevel gear units. (Type W, IEC adapter and helical - bevel geared motor.)

TR ÇEKTİRME ELEMANI ÖLÇÜLERİ

EN DIMENSIONS OF FIXING ELEMENT

Tip / Type	1 L	2	3	4	5	6 d2	6 s	7 d3	7 s3	7	8 d x mH	9 a	9 D
PKD A 0290 DA/Ç	100	A10	I 25 x 1.5	M12	M10 X 45	24.9	3	24.9	12	M12	25 x 116	15	38
PKD B 0290 DA/Ç	115	A6	I 20 x 1.5	M10	M6 X 30	19.9	3	19.9	10	M10	20 x 134	15	38
PKD C 1290 DA/Ç	140	A10	I 30 x 1.5	M12	M10 X 45	29.9	3	29.9	12	M12	30 x 164	20	40
PKD F 4290 DA/Ç	140	A12	I 35 x 1.5	M12	M12 X 55	34.9	3	34.9	16	M16	35 x 170	24.5	45
PKD H 5290 DA/Ç	160	A16	I 40 x 2.0	M16	M16 X 70	39.9	4	39.9	16	M16	40 x 192	25	55
PKD 1390 DA/Ç	120	A10	I 30 x 1.5	M12	M10 X 45	29.9	3	29.9	12	M12	30 x 148	20	40
PKD G1390 DA/Ç	120	A10	I 30 x 1.5	M12	M10 X 45	29.9	3	29.9	12	M12	30 x 148	20	40
PKD 2390 DA/Ç	150	A12	I 35 x 1.5	M16	M12 X 55	34.9	3	34.9	16	M16	35 x 180	24.5	45
PKD 3390 DA/Ç	170	A16	I 40 x 2.0	M16	M16 X 70	39.9	4	39.9	16	M16	40 x 210	25	55
PKD 4390 DA/Ç	200	A16	I 50 x 2.5	M20	M16 X 70	49.9	4	49.9	20	M20	50 x 240	26	65
PKD 5390 DA/Ç	255	A20	I 60 x 3.0	M24	M20 X 90	59.9	5	59.9	24	M24	60 x 300	31	75
PKD 6390 DA/Ç	305	A20	I 70 x 3.0	M24	M20 X 90	69.9	5	69.9	24	M24	70 x 350	32	78
PKD 7390 DA/Ç	305	A24	I 90 x 4.0	M30	M24 X 110	89.9	8	89.9	22	M30	90 x 350	36	102
PKD 8390 DA/Ç	365	A24	I 100 x 4.0	M30	M24 X 110	99.9	8	99.9	30	M30	100 x 420	36.5	120
PKD G8390 DA/Ç	440	A24	I 110 x 5.0	M30	M24 X 110	109.9	10	109.9	30	M30	110 x 500	36	135
PKD 9390 DA/Ç	550	A24	I 120 x 5.0	M36	M24 X 110	119.9	10	119.9	32	M36	120 x 610	34.5	150
PKD G9390 DA/Ç	605	A24	I 160 x 4.0	M36	M24 X 110	159.9	10	159.9	34	M36	160 x 674	34	200

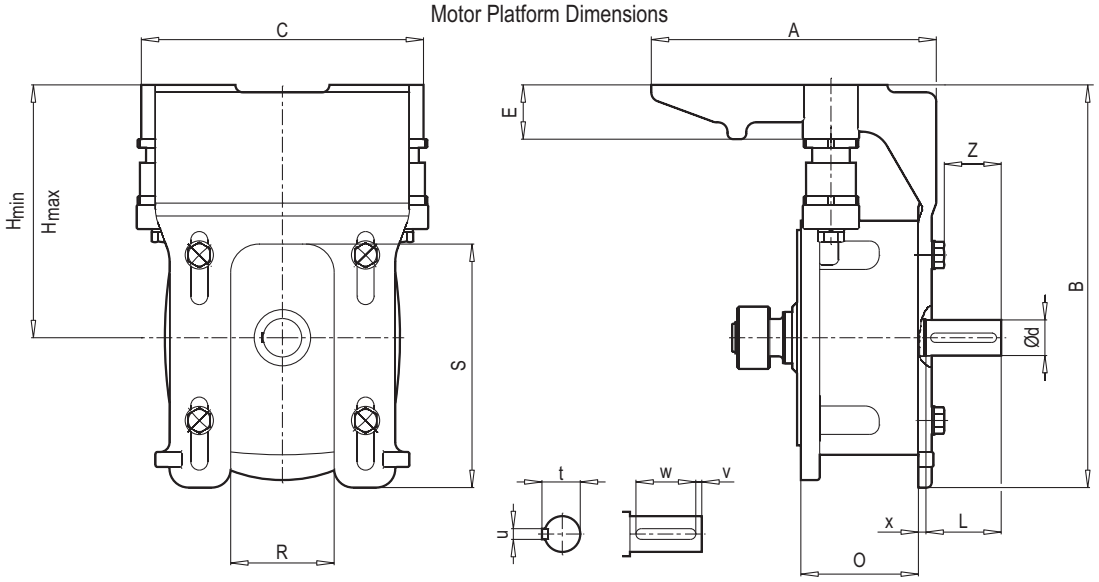
Tip / Type	1 L	2	3	4	5	6 d2	6 s	7 d3	7 s3	7	8 d x mH	9 a	9 D
PKD A 0290 DG/Ç	100	A10	I 25 x 1.5	M12	M10 X 45	24.9	3	24.9	12	M12	25 x 116	20	38
PKD B 0290 DG/Ç	120	A10	I 25 x 1.5	M12	M10 X 45	24.9	3	24.9	12	M12	25 x 138	20	38
PKD C 1290 DG/Ç	140	A10	I 30 x 1.5	M12	M10 X 45	29.9	3	29.9	12	M12	30 x 164	20	40
PKD F 4290 DG/Ç	140	A12	I 35 x 1.5	M12	M12 X 55	34.9	3	34.9	16	M16	35 x 170	24.5	45
PKD H 5290 DG/Ç	160	A16	I 40 x 2.0	M16	M16 X 70	39.9	4	39.9	16	M16	40 x 192	25	55
PKD 1390 DG/Ç	120	A12	I 35 x 1.5	M16	M12 X 55	34.9	3	34.9	16	M16	35 x 148	24.5	45
PKD G1390 DG/Ç	120	A16	I 40 x 2.0	M16	M16 X 70	39.9	4	39.9	16	M16	40 x 148	25	55
PKD 2390 DG/Ç	150	A16	I 40 x 2.0	M16	M16 X 70	39.9	4	39.9	16	M16	40 x 180	25	55
PKD 3390 DG/Ç	170	A16	I 50 x 2.5	M20	M16 X 70	49.9	4	49.9	20	M20	50 x 210	26	65
PKD 4390 DG/Ç	195	A20	I 60 x 3.0	M24	M20 X 90	59.9	5	59.9	24	M24	60 x 240	30	75
PKD 5390 DG/Ç	255	A20	I 70 x 3.0	M24	M20 X 90	69.9	5	69.9	24	M24	70 x 300	31.5	95
PKD 6390 DG/Ç	295	A20	I 80 x 4.0	M30	M20 X 100	79.9	8	79.9	30	M30	80 x 350	32	88
PKD 7390 DG/Ç	305	A24	I 90 x 4.0	M30	M24 X 110	89.9	8	89.9	22	M30	90 x 350	36	102
PKD 8390 DG/Ç	360	A24	I 110 x 5.0	M30	M24 X 110	109.9	10	109.9	30	M30	110 x 420	36.5	135
PKD G 8390 DG/Ç	440	A24	I 120 x 5.0	M36	M24 X 110	119.9	10	119.9	32	M36	120 x 500	36.5	150
PKD 9390 DG/Ç	550	A24	I 150 x 5.0	M36	M24 X 110	149.9	10	149.9	32	M36	150 x 610	34.5	200
PKD G 9390 DG/Ç	605	A24	I 160 x 4.0	M36	M24 X 110	159.9	10	159.9	34	M36	160 x 674	34	200

Tabloda belirtilen numaralar Sayfa 68' de açıklanmaktadır.
The numbers which are specified at table are explained on Page 68

TR MOTOR PLATFORMU

EN MOTOR PLATFORM 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	Ød 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 - 200 L	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 elemanları da dahil olmak üzere korozyonakarşı direçlidir.
* 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 dönebilir.

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 motor gear unit series. Motor platform type, dimension and suitable belt type could be followed from table which is shown on page 39-41, 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	PKD 1390 PKD G 1390 PKD 2390	PKD 3390	PKD 4390 PKD 5390	PKD 6390 PKD 7390	PKD 8390	PKD G 8390	PKD 9390 PKD G9390
Motor	W III	W II	W III	W III W IV	W V W IV	W V W IV	W IV
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	MK III - B			
100 L	MK I	MK II	MK III - A	MK III - B			
112 M		MK II	MK III - A	MK III - B	MK IV	MK IV	
132 S **132 M**			MK III - A	MK III - B	MK IV	MK IV	
160 M **160 L**				MK IV	MK IV	MK IV	
180 M **180 L**				MK IV	MK IV	MK IV **	
200 L				MK IV	MK IV	MK IV **	MK V
225 S **225 M**					MK V	MK V	MK V
250 M					MK V	MK V	MK V
280 M							MK V

**** Ayarlanabilir mesafe (sınırlı)**

** There is a limit distance for adjustment.

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 : 0.18 kW , 5.8 min , i = 232.89
PKD 2390 100L

Bu esas dişli ünitesi tipi için, motor platformu MK I tayin edildiğini tablodan (yukarıya bakınız) saptayınız. Bu nedenle, tam tip tanımı PKD 2390 - MK I - 100'dür.

MK I tablodan (sayfa 72) bant makarası ve bant tipi ile ilgili daha fazla bilgi alabilirsiniz.

Esas boyutlar, tabloda gösterilmiştir. (sayfa 70)

Selection Example:

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

Example : 0.18 kW , 5.8 min , i = 232.89
PKD 2390 100L

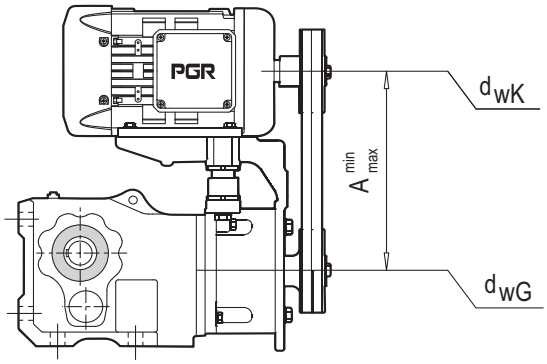
From table (see above of this page) type of gear unit (column) and motor type (row) are intersected. Hence, from this motor bracket MK I dimension should be used. Full designation is PKD 2390 - MK I - 100

Following page shows more detail about belt pulley and type of belt (see page 72). You can see dimension of belt length with motor platform assignment.

The basic dimensions are seen on page 70.

TR MOTOR PLATFORMU

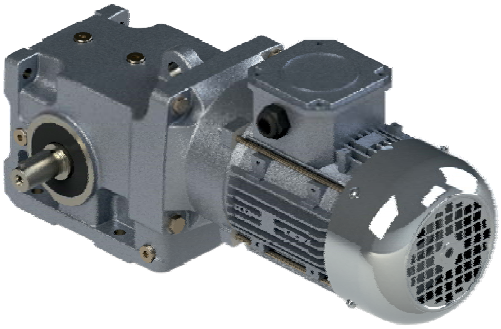
EN MOTOR PLATFORM INSTALLATION

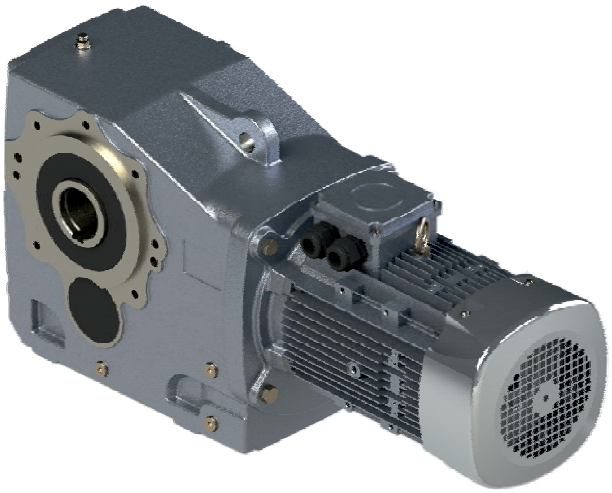


	Motor	Çıkış Output (kW)	Ayar aralığı Adjustment range Amin	Amax	Kayış uzunluğu Belt length	Mil merkezi uzaklığı Shaft centre distance A	Kayış sayısı Number of belts
MK I Kayış Tipi SPZ Belt type SPZ					**(dwg = 80) (i = 1) Lw**		
	63 M/4A	0.12	216	236	697	223	1
	63 M/4B	0.18	216	236	697	223	1
	71 M/4A	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
	180 M/4B	18.5	495	535	1650	511	3
	180 L/4B	22.0	495	535	1650	511	4
	200 L/4C	30.0	515	555	1700	536	4
MK V Kayış Tipi SPA Belt type SPA					**(dwg = 250) (i = 1) Lw**		
	200 L/4C	30.0	665	715	2182	698	4
	225 S/4A	37.0	690	740	2207	710	4
	225 M/4C	45.0	690	740	2207	710	5
MK V Kayış Tipi SPB Belt type SPB					**(dwg = 250) (i = 1) Lw**		
	250 M/4C	55.0	715	765	2240	727	4

Motorlu Seçim Tabloları

Selection Tables of Gearedmotors





PKD...

TR MOTORLU REDÜKTÖR PERFORMANS TABLOLARININ YAPISI

0.25 kW → **Redüktör motor gücü**
Gear unit motor power

Motor gücü
Rated motor power

Çıkış devri
Output speed

Çıkış momenti
Output torque

Servis faktörü
Service factor

Tahvil oranı
Reduction ratio

Redüktör tipi
Gear unit motor type

Ağırlık
Weight

Ölçü sayfaları
Drawing pages

EN 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	mm
0.25	4.7 5.6	509 429	3.0 3.6	296.10 250.01	15.0 15.0	15.0 15.0	15.0 15.0	23.0 23.0	**PKD 3390 - 71M/4A**	69	138-139

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
(Sadece ayak montajlı, helisel konik dişlili redüktörlerde PKD 7390' a kadar)

F_A için listelenmiş değerlerde
F_R = 0 (N) olarak hesaplanmıştır

Permissible axial force on output shaft while reinforced bearings are used (exist for PKD 7390 and lesser gear case). 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
(Sadece ayak montajlı, helisel konik dişlili redüktörlerde PKD 7390' a kadar)

F_R için listelenmiş değerlerde
F_A = 0 (N) olarak hesaplanmıştır

Permissible radial force or load on output shaft while reinforced bearings are used (exist for PKD 7390 and lesser gear case). 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	mm
0.12	1.0	1186	1.3	1363.01	11.0	15.0	15.0	30.0	PKD 3490 - 63M/4A	72	162-163
	1.1	1001	1.5	1151.03	13.0	15.0	15.0	30.0			
	1.5	760	2.0	873.20	14.0	15.0	15.0	30.0			
	1.9	602	2.6	691.75	14.0	15.0	15.0	30.0			
	2.4	469	3.3	538.92	15.0	15.0	15.0	30.0			
	1.2	975	0.9	1121.09	-	12.0	8.0	25.0	PKD 2490 - 63M/4A	49	154-155
	1.4	829	1.0	952.47	3.0	12.0	10.0	25.0			
	1.7	656	1.3	754.58	6.0	12.0	11.0	25.0			
	1.9	590	1.5	678.31	7.0	12.0	11.0	25.0			
	2.3	489	1.8	562.44	8.0	12.0	12.0	25.0			
	2.8	412	2.1	473.11	8.0	12.0	12.0	25.0			
	3.9	296	2.9	339.72	9.0	12.0	12.0	25.0			
	0.9	*763	0.8	1412.66	5.0	20.0	9.0	20.0	PKD G 1490 - 63M/4A	42	146-147
	1.0	*763	0.8	1255.89	5.0	20.0	9.0	20.0			
	2.1	548	1.1	630.06	8.0	20.0	9.0	20.0			
	2.4	486	1.3	558.17	8.0	20.0	9.0	20.0			
	2.7	429	1.4	493.33	9.0	20.0	9.0	20.0			
	3.6	320	1.9	367.72	9.0	20.0	9.0	20.0			
	3.1	368	1.6	277.79	9.0	20.0	9.0	20.0	PKD G 1390 - 63M/6	37	142-143
	3.7	311	1.9	234.59	9.0	20.0	9.0	20.0			
	4.2	273	2.2	206.01	9.0	20.0	9.0	20.0			
	4.7	242	2.4	277.79	9.0	20.0	9.0	20.0	PKD G 1390 - 63M/4A	37	142-143
	5.6	204	2.9	234.59	9.0	20.0	9.0	20.0			
	0.9	*500	0.8	1412.66	3.0	20.0	8.0	20.0	PKD 1490 - 63M/4A	41	138-139
	1.0	*500	0.8	1255.89	3.0	20.0	8.0	20.0			
	1.6	*500	0.8	848.31	3.0	20.0	8.0	20.0			
	2.0	*500	0.8	668.11	3.0	20.0	8.0	20.0			
	2.2	*500	0.8	590.51	3.0	20.0	8.0	20.0			
	3.0	383	1.0	440.14	5.0	20.0	9.0	20.0			
	2.6	441	0.9	332.51	5.0	20.0	8.0	20.0	PKD 1390 - 63M/6	36	134-135
	3.1	372	1.1	280.80	6.0	20.0	9.0	20.0			
	3.5	327	1.2	246.59	6.0	20.0	9.0	20.0			
	4.0	289	1.4	332.51	6.0	20.0	9.0	20.0	PKD 1390 - 63M/4A	36	134-135
	4.7	244	1.6	280.80	7.0	20.0	9.0	20.0			
	5.3	215	1.9	246.59	7.0	20.0	9.0	20.0			
	6.4	179	2.2	206.01	7.0	20.0	9.0	20.0			
	7.9	145	2.8	166.82	7.0	20.0	9.0	20.0			
	9.4	123	3.3	140.87	7.0	20.0	9.0	20.0			
	10.6	108	3.7	123.71	7.0	20.0	9.0	20.0			
	13.5	85	4.7	97.43	7.0	20.0	9.0	20.0			
	15.3	75	5.3	86.12	7.0	20.0	9.0	20.0			
	17.2	67	6.0	76.68	7.0	20.0	9.0	20.0			
	21.0	55	7.3	62.74	7.0	20.0	9.0	20.0			
	23.8	48	8.3	55.26	7.0	20.0	9.0	20.0			
	26.9	43	9.4	48.92	7.0	20.0	9.0	20.0			
	31.6	36	11.0	41.72	7.0	20.0	9.0	20.0			
	37.8	30	13.2	34.86	7.0	20.0	9.0	20.0			
	41.8	27	14.6	31.48	7.0	20.0	9.0	20.0			
	47.5	24	16.6	27.72	7.0	20.0	9.0	20.0			
	53.7	21	18.7	24.55	7.0	20.0	9.0	20.0			
	62.9	18	19.6	20.93	7.0	20.0	9.0	20.0			
	75.3	15	19.5	17.49	7.0	20.0	9.0	20.0			
	86.3	13	20.2	15.27	7.0	19.0	9.0	19.0			
	107.4	11	18.2	12.27	7.0	18.0	9.0	18.0			
	121.3	9	18.9	10.86	7.0	17.0	9.0	17.0			
	142.2	8	19.6	9.26	7.0	16.0	9.0	16.0			
	162.9	7	20.3	8.09	7.0	16.0	9.0	16.0			

*** max. çıkış momenti f_B = 0.8**
* max. output torque with f_B = 0.8

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	mm
0.12	21.0	55	2.3	62.77	4.7	9.0	-	-	PKD C 1290 - 63M/4A	20	122-123
	24.0	48	2.3	54.92	4.7	9.0	-	-			
	26.5	43	3.9	49.69	4.7	9.0	-	-			
	30.3	38	4.0	43.48	4.7	9.0	-	-			
	18.2	63	0.9	72.24	3.2	5.6	-	-	PKD B 0290 - 63M/4A	14	118-119
	20.8	55	0.9	63.21	3.2	5.6	-	-			
	24.6	47	1.9	53.52	3.3	5.6	-	-			
	28.1	41	1.8	46.83	3.3	5.6	-	-			
	31.9	36	3.2	41.23	3.3	5.6	-	-			
	36.5	31	3.2	36.08	3.4	5.6	-	-			
	40.9	28	4.3	32.24	3.4	5.6	-	-			
	46.7	25	4.9	28.21	3.4	5.6	-	-			
	70.0	16	5.2	18.81	3.4	5.6	-	-			
	84.3	14	8.9	15.62	3.4	5.6	-	-			
	97.7	12	10.3	13.48	3.4	5.6	-	-			
	111.7	10	11.6	11.79	3.4	5.6	-	-			
	127.3	9	11.9	10.35	3.4	5.6	-	-			
	145.4	8	13.2	9.06	3.4	5.6	-	-			
	164.6	7	14.1	8.00	3.4	5.6	-	-			
	186.9	6	14.9	7.05	3.4	5.6	-	-			
	218.1	5	13.7	6.04	3.4	5.6	-	-			
	246.8	5	16.2	5.34	3.4	5.6	-	-			
	276.4	4	14.8	4.77	3.4	5.4	-	-			
	320.4	4	18.2	4.11	3.4	5.1	-	-			
	24.1	48	1.1	54.62	3.2	5.1	-	-	PKD A 0290 - 63M/4A	9	114-115
	27.6	42	1.1	47.79	3.2	5.1	-	-			
	33.2	34	2.3	39.64	3.2	5.1	-	-			
	38.0	30	2.5	34.69	3.2	5.1	-	-			
	43.7	26	2.7	30.13	3.2	5.1	-	-			
	50.0	23	3.9	26.36	3.3	5.1	-	-			
	56.6	20	4.4	23.26	3.3	5.1	-	-			
	64.7	18	5.0	20.35	3.3	5.1	-	-			
	74.9	15	3.9	17.58	3.3	5.1	-	-			
	97.1	12	6.4	13.57	3.3	5.1	-	-			
	119.2	10	9.5	11.05	3.3	5.1	-	-			
	136.2	8	11.2	9.67	3.3	5.1	-	-			
	146.6	8	11.5	8.99	3.3	5.1	-	-			
	167.5	7	13.2	7.86	3.3	5.1	-	-			
	204.3	6	12.5	6.45	3.3	5.1	-	-			
	227.8	5	14.3	5.78	3.3	5.1	-	-			
	251.3	5	14.1	5.24	3.3	5.0	-	-			
	341.8	3	12.8	3.85	3.0	4.4	-	-			
0.18	1.0	1741	0.9	1363.01	3.0	15.0	15.0	30.0	PKD 3490 - 63M/4B	72	162-163
	1.2	1471	1.1	1151.03	9.0	15.0	15.0	30.0			
	1.5	1116	1.4	873.20	12.0	15.0	15.0	30.0			
	1.9	884	1.8	691.75	13.0	15.0	15.0	30.0			
	2.5	689	2.3	538.92	14.0	15.0	15.0	29.0			
	3.4	510	3.0	399.39	15.0	15.0	15.0	27.0			
	3.8	451	3.4	353.00	15.0	15.0	15.0	27.0			
	1.8	964	0.9	754.58	0.4	12.0	8.0	25.0	PKD 2490 - 63M/4B	49	154-155
	2.0	867	1.0	678.31	1.0	12.0	9.0	25.0			
	2.4	719	1.2	562.44	5.0	12.0	10.0	25.0			
	2.8	604	1.4	473.11	7.0	12.0	11.0	25.0			
	4.0	434	2.0	339.72	8.0	12.0	12.0	25.0			
	4.5	380	2.3	297.67	9.0	12.0	12.0	25.0			
	5.8	298	2.4	232.89	9.0	12.0	12.0	23.0	PKD 2390 - 63M/4B	44	150-151
	2.4	713	0.9	558.17	6.0	20.0	9.0	20.0	PKD G 1490 - 63M/4B	42	146-147
	2.7	630	1.0	493.33	7.0	20.0	9.0	20.0			
	3.7	470	1.3	367.72	8.0	20.0	9.0	20.0			
	3.2	531	1.1	277.79	8.0	20.0	9.0	20.0	PKD G 1390 - 71M/6A	40	142-143
	3.8	448	1.3	234.59	9.0	20.0	9.0	20.0			
	4.4	393	1.6	206.01	9.0	20.0	9.0	20.0			
	4.8	355	1.7	277.79	9.0	20.0	9.0	20.0	PKD G 1390 - 63M/4B	37	142-143
	5.7	300	2.0	234.59	9.0	20.0	9.0	20.0			
	6.5	263	2.3	206.01	9.0	20.0	9.0	20.0			
	3.2	536	0.7	280.80	3.0	20.0	7.0	20.0	PKD 1390 - 71M/6A	39	134-135
	3.6	471	0.8	246.59	4.0	20.0	8.0	20.0			

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	mm
0.18	4.0	425	0.9	332.51	5.0	20.0	8.0	20.0	PKD 1390 - 63M/4B	36	134-135
	4.8	359	1.1	280.80	6.0	20.0	9.0	20.0			
	5.5	315	1.3	246.59	6.0	20.0	9.0	20.0			
	6.5	263	1.5	206.01	6.0	20.0	9.0	20.0			
	8.1	213	1.9	166.82	7.0	20.0	9.0	20.0			
	9.6	180	2.2	140.87	7.0	20.0	9.0	20.0			
	10.9	158	2.5	123.71	7.0	20.0	9.0	20.0			
	13.8	124	3.2	97.43	7.0	20.0	9.0	20.0			
	15.6	110	3.6	86.12	7.0	20.0	9.0	20.0			
	17.5	98	4.1	76.68	7.0	20.0	9.0	20.0			
	21.4	80	5.0	62.74	7.0	20.0	9.0	20.0			
	24.3	71	5.7	55.26	7.0	20.0	9.0	20.0			
	27.5	63	6.4	48.92	7.0	20.0	9.0	20.0			
	32.2	53	7.5	41.72	7.0	20.0	9.0	20.0			
	38.6	45	9.0	34.86	7.0	20.0	9.0	20.0			
	42.7	40	9.9	31.48	7.0	20.0	9.0	20.0			
	48.5	35	11.3	27.72	7.0	20.0	9.0	20.0			
	54.8	31	12.8	24.55	7.0	20.0	9.0	20.0			
	64.3	27	13.4	20.93	7.0	20.0	9.0	20.0			
	76.9	22	13.4	17.49	7.0	19.0	9.0	19.0			
	88.1	20	13.8	15.27	7.0	19.0	9.0	19.0			
	109.7	16	12.4	12.27	7.0	17.0	9.0	17.0			
	123.9	14	12.8	10.86	7.0	17.0	9.0	17.0			
	145.3	12	13.3	9.26	7.0	16.0	9.0	16.0			
	166.4	10	13.8	8.09	7.0	15.0	9.0	15.0			
	22.7	76	5.0	59.20	6.1	12.0	-	-	PKD F 4290 - 63M/4B	37	126-127
	26.0	66	5.2	51.80	6.1	12.0	-	-			
	21.4	80	1.6	62.77	4.6	9.0	-	-	PKD C 1290 - 63M/4B	20	122-123
	24.5	70	1.6	54.92	4.6	9.0	-	-			
	27.1	63	2.7	49.69	4.6	9.0	-	-			
	30.9	56	2.7	43.48	4.7	9.0	-	-			
	25.1	68	1.3	53.52	3.1	5.6	-	-	PKD B 0290 - 63M/4B	14	118 -119
	28.7	60	1.3	46.83	3.2	5.6	-	-			
	32.6	53	2.2	41.23	3.3	5.6	-	-			
	37.3	46	2.2	36.08	3.3	5.6	-	-			
	41.7	41	2.9	32.24	3.3	5.6	-	-			
	47.7	36	3.3	28.21	3.3	5.6	-	-			
	71.5	24	3.5	18.81	3.4	5.6	-	-			
	86.2	20	6.0	15.62	3.4	5.6	-	-			
	99.8	17	7.1	13.48	3.4	5.6	-	-			
	114.1	15	7.5	11.79	3.4	5.6	-	-			
	130.0	13	8.1	10.35	3.4	5.6	-	-			
	148.6	12	9.2	9.06	3.4	5.6	-	-			
	168.1	10	9.4	8.00	3.4	5.6	-	-			
	190.9	9	10.4	7.05	3.4	5.6	-	-			
	222.8	8	10.2	6.04	3.4	5.6	-	-			
	252.1	7	10.6	5.34	3.4	5.6	-	-			
	282.4	6	10.4	4.77	3.4	5.6	-	-			
	327.3	5	10.6	4.11	3.4	5.6	-	-			
	33.9	51	1.6	39.64	3.1	5.1	-	-	PKD A 0290 - 63M/4B	9	114-115
	38.8	44	1.7	34.69	3.2	5.1	-	-			
	44.7	38	1.8	30.13	3.2	5.1	-	-			
	51.0	34	2.7	26.36	3.2	5.1	-	-			
	57.9	30	3.0	23.26	3.2	5.1	-	-			
	66.1	26	3.4	20.35	3.2	5.1	-	-			
	76.6	22	2.7	17.58	3.3	5.1	-	-			
	99.2	17	4.4	13.57	3.3	5.1	-	-			
	121.7	14	6.3	11.05	3.3	5.1	-	-			
	139.1	12	7.5	9.67	3.3	5.1	-	-			
	149.7	11	8.0	8.99	3.3	5.1	-	-			
	171.1	10	8.7	7.86	3.3	5.1	-	-			
	208.7	8	7.8	6.45	3.3	5.1	-	-			
	232.7	7	10.7	5.78	3.3	5.1	-	-			
	256.7	7	9.2	5.24	3.2	4.9	-	-			
	349.1	5	10.0	3.85	2.9	4.3	-	-			

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	mm
0.25	1.5 2.0	1599 1209	3.0 3.3	931.06 703.71	38.0 38.0	45.0 45.0	38.0 38.0	45.0 45.0	**PKD 5490 - 71M/4A**	209	178-179
	0.9 1.2 1.6 2.2 2.4	2605 1913 1516 1107 975	1.1 1.5 1.8 2.5 2.9	1516.84 1113.75 882.35 644.73 567.85	23.0 25.0 27.0 27.0 28.0	40.0 40.0 40.0 40.0 40.0	28.0 28.0 28.0 28.0 28.0	40.0 40.0 40.0 40.0 40.0	**PKD 4490 - 71M/4A**	131	170-171
	1.2 1.6 2.0 2.6 3.5 3.9 5.2 6.5 8.3	1977 1500 1188 926 686 606 460 369 288	0.8 1.0 1.3 1.7 2.3 2.6 3.4 4.2 5.4	1151.03 873.20 691.75 538.92 399.39 353.00 267.79 215.12 167.59	1.0 9.0 11.0 13.0 14.0 14.0 15.0 15.0 15.0	15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0	13.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0	30.0 30.0 29.0 28.0 26.0 26.0 24.0 23.0 21.0	**PKD 3490 - 71M/4A**	75	162-163
	4.7 5.6	509 429	3.0 3.6	296.10 250.01	15.0 15.0	15.0 15.0	15.0 15.0	23.0 23.0	**PKD 3390 - 71M/4A**	69	158-159
	2.5 2.9 4.1 4.7 6.1	966 813 584 511 393	0.9 1.1 1.5 1.7 1.7	562.44 473.11 339.72 297.67 228.98	- 3.0 7.0 8.0 8.0	12.0 12.0 12.0 12.0 12.0	8.0 9.0 11.0 12.0 12.0	25.0 25.0 24.0 24.0 22.0	**PKD 2490 - 71M/4A**	52	154-155
	6.0	400	1.7	232.89	8.0	12.0	12.0	22.0	**PKD 2390 - 71M/4A**	47	150-151
	3.9 4.4	615 540	1.0 1.1	234.59 206.01	7.0 8.0	20.0 20.0	9.0 9.0	20.0 20.0	**PKD G 1390 - 71M/6B**	42	142-143
	5.0 5.9 6.7	477 403 354	1.2 1.5 1.7	277.79 234.59 206.01	8.0 9.0 9.0	20.0 20.0 20.0	9.0 9.0 9.0	20.0 20.0 20.0	**PKD G 1390 - 71M/4A**	40	142-143
	4.4	540	0.7	206.01	2.0	20.0	7.0	20.0	**PKD 1390 - 71M/6B**	41	134-135
	5.0 5.6 6.7 8.3 9.9 11.2 14.3 16.1 18.1 22.2 25.2 28.4 33.3 39.9 44.2 50.1 56.6 66.4 79.5 91.0 113.3 128.0 150.1 171.9	482 424 354 287 242 212 167 148 132 108 95 84 72 60 54 48 42 36 30 26 21 19 16 14	0.8 0.9 1.1 1.4 1.7 1.9 2.4 2.7 3.0 3.7 4.2 4.8 5.6 6.7 7.4 8.4 9.5 10.0 10.0 10.3 9.2 9.6 9.9 10.3	280.80 246.59 206.01 166.82 140.87 123.71 97.43 86.12 76.68 62.74 55.26 48.92 41.72 34.86 31.48 27.72 24.55 20.93 17.49 15.27 12.27 10.86 9.26 8.09	4.0 5.0 6.0 6.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0	20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 19.0 18.0 17.0 17.0 16.0 15.0	8.0 8.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0	20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 19.0 18.0 17.0 17.0 16.0 15.0	**PKD 1390 - 71M/4A**	39	134-135
	23.5 26.8	102 89	3.7 3.9	59.20 51.80	6.1 6.1	12 12	- -	- -	**PKD F 4290 - 71M/4A**	42	126-127
	22.1 25.3 28.0 32.0 36.0 41.2	108 94 85 75 66 58	1.2 1.2 2.0 2.0 2.9 3.2	62.77 54.92 49.69 43.48 38.59 33.76	4.5 4.5 4.6 4.6 4.6 4.7	9.0 9.0 9.0 9.0 9.0 9.0	- - - - - -	- - - - - -	**PKD C 1290 - 71M/4A**	25	122-123

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	mm
0.25	26.0	92	1.0	53.52	2.9	5.6	-	-	PKD B 0290 - 71M/4A	19	118 -119
	29.7	80	0.9	46.83	3.0	5.6	-	-			
	33.7	71	1.6	41.23	3.1	5.6	-	-			
	38.5	62	1.6	36.08	3.2	5.6	-	-			
	43.1	55	2.2	32.24	3.2	5.6	-	-			
	49.3	48	2.5	28.21	3.3	5.6	-	-			
	73.9	32	2.6	18.81	3.4	5.6	-	-			
	89.0	27	4.5	15.62	3.4	5.6	-	-			
	103.1	23	5.1	13.48	3.4	5.6	-	-			
	117.9	20	5.6	11.79	3.4	5.6	-	-			
	134.3	18	6.2	10.35	3.4	5.6	-	-			
	153.5	16	6.8	9.06	3.4	5.6	-	-			
	173.6	14	7.3	8.00	3.4	5.6	-	-			
	197.2	12	7.8	7.05	3.4	5.6	-	-			
	230.2	10	7.1	6.04	3.4	5.6	-	-			
	260.5	9	7.6	5.34	3.4	5.6	-	-			
	291.7	8	7.8	4.77	3.4	5.6	-	-			
	338.1	7	8.3	4.11	3.4	4.9	-	-			
	35.1	68	1.2	39.64	3.0	5.1	-	-	PKD A 0290 - 71M/4A	13	114-115
	40.1	60	1.3	34.69	3.1	5.1	-	-			
	46.1	52	1.4	30.13	3.1	5.1	-	-			
	52.7	45	2.0	26.36	3.2	5.1	-	-			
	59.8	40	2.3	23.26	3.2	5.1	-	-			
	68.3	35	2.6	20.35	3.2	5.1	-	-			
	79.1	30	2.0	17.58	3.2	5.1	-	-			
	102.5	23	3.2	13.57	3.3	5.1	-	-			
	125.8	19	4.7	11.05	3.3	5.1	-	-			
	143.7	17	5.5	9.67	3.3	5.1	-	-			
	154.7	15	6.0	8.99	3.3	5.1	-	-			
	176.8	14	6.7	7.86	3.3	5.1	-	-			
	215.6	11	6.0	6.45	3.3	5.1	-	-			
	240.4	10	7.4	5.78	3.2	4.9	-	-			
	265.2	9	6.6	5.24	3.2	4.7	-	-			
	360.6	7	7.8	3.85	2.9	4.2	-	-			
0.37	0.9	3563	2.4	1448.34	64.0	50.0	66.0	50.0	PKD 7390/32 - 71M/4B	367	206
	1.2	2771	3.1	1166.22	65.0	50.0	66.0	50.0			
	1.0	3695	2.2	1388.82	64.0	50.0	66.0	50.0	PKD 6390/32 - 71M/4B	367	206
	1.2	2886	2.8	1118.29	64.0	50.0	66.0	50.0			
	1.0	3613	1.3	1399.82	33.0	45.0	38.0	45.0	PKD 5490 - 71M/4B	211	178-179
	1.3	2741	1.8	1061.93	36.0	45.0	38.0	45.0			
	1.5	2403	2.0	931.06	36.0	45.0	38.0	45.0			
	1.9	1816	2.3	703.71	37.0	45.0	38.0	45.0			
	2.4	1498	3.2	580.56	38.0	45.0	38.0	45.0			
	1.2	2874	1.0	1113.75	21.0	40.0	28.0	40.0	PKD 4490 - 71M/4B	131	170-171
	1.6	2277	1.2	882.35	24.0	40.0	28.0	40.0			
	2.1	1664	1.7	644.73	26.0	40.0	28.0	40.0			
	2.4	1465	1.9	567.85	27.0	40.0	28.0	40.0			
	3.9	904	3.1	350.42	28.0	40.0	28.0	38.0			
	2.0	1785	0.9	691.75	3.0	15.0	15.0	27.0	PKD 3490 - 71M/4B	77	162-163
	2.5	1391	1.1	538.92	10.0	15.0	15.0	26.0			
	3.4	1031	1.5	399.39	13.0	15.0	15.0	25.0			
	3.9	911	1.7	353.00	13.0	15.0	15.0	24.0			
	5.1	691	2.2	267.79	14.0	15.0	15.0	23.0			
	6.4	555	2.8	215.12	15.0	15.0	15.0	22.0			
	8.2	433	3.6	167.59	15.0	15.0	15.0	21.0			
	4.6	764	2.0	296.10	14.0	15.0	15.0	23.0	PKD 3390 - 71M/4B	71	158-159
	5.5	645	2.4	250.01	14.0	15.0	15.0	22.0			
	12.3	286	5.4	110.94	15.0	15.0	15.0	18.0			
	4.0	877	1.0	339.72	0.4	12.0	9.0	23.0	PKD 2490 - 71M/4B	54	154-155
	4.6	768	1.1	297.67	4.0	12.0	10.0	22.0			
	4.9	715	1.1	276.87	5.0	12.0	10.0	22.0	PKD 2390 - 71M/4B	49	150-151
	5.9	601	1.2	232.89	7.0	12.0	11.0	21.0			
	6.2	566	1.5	219.34	7.0	12.0	11.0	21.0			
	7.4	476	1.8	184.51	8.0	12.0	12.0	20.0			
	13.8	255	3.4	98.92	9.0	12.0	12.0	18.0			
	17.4	203	4.2	78.85	9.0	12.0	12.0	17.0			

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	mm
0.37	5.8	605	1.0	234.59	7.0	20.0	9.0	20.0	PKD G 1390 - 71M/4B	42	142-143
	6.6	532	1.1	206.01	8.0	20.0	9.0	20.0			
	7.5	473	1.3	183.15	8.0	20.0	9.0	20.0			
	9.1	387	1.6	149.85	9.0	20.0	9.0	20.0			
	14.9	237	2.1	91.88	9.0	20.0	9.0	20.0			
	16.8	210	2.9	81.40	9.0	20.0	9.0	20.0			
	7.5	473	0.8	183.15	4.0	20.0	8.0	20.0	PKD 1390 - 71M/4B	41	134-135
	9.7	364	1.1	140.87	6.0	20.0	9.0	20.0			
	11.1	319	1.3	123.71	6.0	20.0	9.0	20.0			
	12.4	284	1.4	109.98	6.0	20.0	9.0	20.0			
	14.1	251	1.6	97.43	7.0	20.0	9.0	20.0			
	15.9	222	1.8	86.12	7.0	20.0	9.0	20.0			
	17.9	198	2.0	76.68	7.0	20.0	9.0	20.0			
	21.8	162	2.5	62.74	7.0	20.0	9.0	20.0			
	24.8	143	2.8	55.26	7.0	20.0	9.0	20.0			
	28.0	126	3.2	48.92	7.0	20.0	9.0	20.0			
	32.8	108	3.7	41.72	7.0	20.0	9.0	20.0			
	39.3	90	4.4	34.86	7.0	20.0	9.0	20.0			
	43.5	81	4.9	31.48	7.0	20.0	9.0	20.0			
	49.4	72	5.6	27.72	7.0	20.0	9.0	20.0			
	55.8	63	6.3	24.55	7.0	20.0	9.0	20.0			
	65.4	54	6.6	20.93	7.0	20.0	9.0	20.0			
	78.3	45	6.6	17.49	7.0	19.0	9.0	19.0			
	89.7	39	6.9	15.27	7.0	18.0	9.0	18.0			
	111.6	32	6.1	12.27	7.0	17.0	9.0	17.0			
	126.1	28	6.4	10.86	7.0	17.0	9.0	17.0			
	147.8	24	6.6	9.26	7.0	16.0	9.0	16.0			
	169.3	21	6.9	8.09	7.0	15.0	9.0	15.0			
	21.8	162	0.8	62.77	4.1	9.0	-	-	PKD C 1290 - 71M/4B	26	122-123
	24.9	142	0.8	54.92	4.3	9.0	-	-			
	27.6	128	1.3	49.69	4.3	9.0	-	-			
	31.5	112	1.3	43.48	4.4	9.0	-	-			
	35.5	100	1.9	38.59	4.5	9.0	-	-			
	40.6	87	2.1	33.76	4.6	9.0	-	-			
	33.2	106	1.1	41.23	2.7	5.6	-	-	PKD B 0290 - 71M/4B	20	118 -119
	38.0	93	1.1	36.08	2.9	5.6	-	-			
	42.5	83	1.4	32.24	3.0	5.6	-	-			
	48.5	73	1.6	28.21	3.1	5.6	-	-			
	72.8	49	1.8	18.81	3.3	5.6	-	-			
	87.7	40	3.0	15.62	3.3	5.6	-	-			
	101.6	35	3.4	13.48	3.3	5.6	-	-			
	116.1	30	3.8	11.79	3.4	5.6	-	-			
	132.3	27	4.1	10.35	3.4	5.6	-	-			
	151.2	23	4.6	9.06	3.4	5.6	-	-			
	171.0	21	4.8	8.00	3.4	5.6	-	-			
	194.3	18	5.2	7.05	3.4	5.6	-	-			
	226.7	16	5.1	6.04	3.4	5.6	-	-			
	256.6	14	5.2	5.34	3.4	5.4	-	-			
	287.3	12	5.1	4.77	3.4	5.2	-	-			
	333.0	11	5.7	4.11	3.4	4.8	-	-			
	34.5	102	0.8	39.64	2.6	5.1	-	-	PKD A 0290 - 71M/4B	15	114-115
	39.5	90	0.8	34.69	2.8	5.1	-	-			
	45.4	78	0.9	30.13	2.9	5.1	-	-			
	51.9	68	1.3	26.36	3.0	5.1	-	-			
	58.9	60	1.5	23.26	3.1	5.1	-	-			
	67.3	53	1.7	20.35	3.1	5.1	-	-			
	77.9	45	1.3	17.58	3.2	5.1	-	-			
	100.9	35	2.1	13.57	3.2	5.1	-	-			
	123.9	29	3.2	11.05	3.2	5.1	-	-			
	141.6	25	3.6	9.67	3.3	5.1	-	-			
	152.4	23	3.8	8.99	3.3	5.1	-	-			
	174.1	20	4.4	7.86	3.3	5.1	-	-			
	212.4	17	4.1	6.45	3.3	5.1	-	-			
	236.8	15	5.0	5.78	3.2	4.9	-	-			
	261.2	14	4.6	5.24	3.1	4.7	-	-			
	355.2	10	5.0	3.85	2.8	4.1	-	-			

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	mm
0.55	1.0	5326	1.6	1448.34	61.0	50.0	66.0	50.0			
	1.2	4143	2.1	1166.22	63.0	50.0	66.0	50.0			
	1.4	3354	2.5	972.42	64.0	50.0	66.0	50.0	PKD 7390/32 - 80M/4A	367	206
	1.8	2675	3.2	765.14	65.0	50.0	66.0	50.0			
	2.3	2075	4.1	596.10	65.0	50.0	66.0	50.0			
	1.0	5317	1.5	1388.82	61.0	50.0	66.0	50.0			
	1.3	4196	2.0	1118.29	63.0	50.0	66.0	50.0	PKD 6390/32 - 80M/4A	367	206
	1.5	3498	2.3	932.46	64.0	50.0	66.0	50.0			
	1.9	2753	3.0	733.69	64.0	50.0	66.0	50.0			
	1.0	5252	0.9	1399.82	24.0	45.0	38.0	45.0			
	1.3	3984	1.2	1061.93	31.0	45.0	38.0	45.0			
	1.5	3493	1.4	931.06	33.0	45.0	38.0	45.0	PKD 5490 - 80M/4A	211	178-179
	2.0	2640	1.8	703.71	36.0	45.0	38.0	45.0			
	2.4	2178	2.2	580.56	37.0	45.0	38.0	45.0			
	3.0	1722	2.8	459.05	37.0	45.0	38.0	45.0			
	1.6	3310	0.8	882.35	19.0	40.0	28.0	40.0			
	2.2	2419	1.2	644.73	23.0	40.0	28.0	40.0			
	2.5	2130	1.3	567.85	24.0	40.0	28.0	40.0	PKD 4490 - 80M/4A	131	170-171
	4.0	1315	2.1	350.42	27.0	40.0	28.0	37.0			
	5.0	1047	2.7	278.98	27.0	40.0	28.0	35.0			
	6.9	766	3.7	204.13	28.0	40.0	28.0	33.0			
	3.5	1498	1.0	399.39	8.0	15.0	15.0	23.0	PKD 3490 - 80M/4A	77	162-163
	4.0	1324	1.2	353.00	10.0	15.0	15.0	22.0			
	4.7	1111	1.4	296.10	12.0	15.0	15.0	21.0			
	5.6	938	1.7	250.01	13.0	15.0	15.0	20.0	PKD 3390 - 80M/4A	71	158-159
	6.0	878	1.8	234.13	13.0	15.0	15.0	20.0			
	7.1	742	2.1	197.69	14.0	15.0	15.0	19.0			
	6.4	823	1.0	219.34	3.0	12.0	9.0	20.0			
	7.6	692	1.2	184.51	6.0	12.0	11.0	19.0			
	8.2	637	1.3	169.88	6.0	12.0	11.0	19.0			
	10.2	516	1.7	137.63	8.0	12.0	12.0	18.0			
	12.1	434	2.0	115.77	8.0	12.0	12.0	18.0			
	14.2	371	2.3	98.92	9.0	12.0	12.0	17.0	PKD 2390 - 80M/4A	49	150-151
	16.4	320	2.7	85.23	9.0	12.0	12.0	17.0			
	17.8	296	2.9	78.85	9.0	12.0	12.0	16.0			
	21.1	249	3.4	66.47	9.0	12.0	12.0	16.0			
	24.0	219	3.9	58.24	9.0	12.0	12.0	15.0			
	26.9	195	4.3	52.11	9.0	12.0	12.0	15.0			
	7.6	687	0.9	183.15	6.0	20.0	-	-			
	9.3	562	1.1	149.85	8.0	20.0	-	-			
	9.8	534	1.1	142.45	8.0	20.0	-	-			
	12.0	437	1.4	116.55	9.0	20.0	-	-			
	15.2	345	1.5	91.88	9.0	20.0	-	-	PKD G 1390 - 80M/4A	42	142-143
	17.2	305	2.0	81.40	9.0	20.0	-	-			
	19.5	270	2.2	71.94	9.0	20.0	-	-			
	21.9	240	2.5	64.06	9.0	20.0	-	-			
	26.7	197	3.1	52.42	8.0	20.0	-	-			
	12.7	413	1.0	109.98	5.0	20.0	8.0	20.0			
	14.4	366	1.1	97.43	5.0	20.0	8.0	20.0			
	16.3	323	1.2	86.12	6.0	20.0	9.0	20.0			
	18.3	288	1.4	76.68	6.0	20.0	9.0	20.0			
	22.3	235	1.7	62.74	7.0	20.0	9.0	20.0			
	25.3	207	1.9	55.26	7.0	20.0	9.0	20.0			
	28.6	184	2.2	48.92	7.0	20.0	9.0	20.0			
	33.6	157	2.6	41.72	7.0	20.0	9.0	20.0			
	40.2	131	3.1	34.86	7.0	20.0	9.0	20.0			
	44.5	118	3.4	31.48	7.0	20.0	9.0	20.0	PKD 1390 - 80M/4A	41	134-135
	50.5	104	3.8	27.72	7.0	20.0	9.0	20.0			
	57.0	92	4.3	24.55	7.0	20.0	9.0	20.0			
	66.9	79	4.6	20.93	7.0	20.0	9.0	20.0			
	80.1	66	4.6	17.49	7.0	19.0	9.0	19.0			
	91.7	57	4.7	15.27	7.0	18.0	9.0	18.0			
	114.1	46	4.2	12.27	7.0	17.0	9.0	17.0			
	128.9	41	4.4	10.86	7.0	16.0	9.0	16.0			
	151.1	35	4.6	9.26	7.0	16.0	9.0	16.0			
	173.1	30	4.7	8.09	7.0	15.0	9.0	15.0			

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	mm
0.55	21.9	240	1.9	63.96	7.9	12.0	-	-	PKD H 5290 - 80M/4A	50	130-131
	25.0	210	1.9	55.96	8.0	12.0	-	-			
	26.7	197	2.9	52.42	8.0	12.0	-	-			
	23.6	222	1.7	59.20	5.5	12.0	-	-	PKD F 4290 - 80M/4A	43	126-127
	27.0	194	1.8	51.80	5.7	12.0	-	-			
	29.2	180	2.1	48.01	5.8	12.0	-	-			
	33.3	158	2.2	42.01	5.9	12.0	-	-			
	37.5	140	2.4	37.34	5.9	12.0	-	-			
	28.2	186	0.9	49.69	3.8	9.0	-	-	PKD C 1290 - 80M/4A	26	122-123
	32.2	163	0.9	43.48	4.1	9.0	-	-			
	36.3	145	1.3	38.59	4.2	9.0	-	-			
	41.5	127	1.5	33.76	4.3	9.0	-	-			
	44.8	117	1.6	31.27	4.4	9.0	-	-			
	51.2	103	2.2	27.36	4.5	9.0	-	-			
	57.6	91	2.3	24.32	4.5	9.0	-	-			
	43.4	121	1.0	32.24	2.5	5.6	-	-	PKD B 0290 - 80M/4A	20	118 -119
	49.6	106	1.1	28.21	2.7	5.6	-	-			
	53.9	98	1.2	25.99	2.8	5.6	-	-			
	61.6	85	1.4	22.74	3.0	5.6	-	-			
	74.4	71	1.2	18.81	3.1	5.6	-	-			
	89.6	59	2.0	15.62	3.2	5.6	-	-			
	103.9	51	2.4	13.48	3.3	5.6	-	-			
	118.7	44	2.6	11.79	3.3	5.6	-	-			
	135.3	39	2.8	10.35	3.3	5.6	-	-			
	154.6	34	3.1	9.06	3.3	5.6	-	-			
	174.9	30	3.4	8.00	3.4	5.6	-	-			
	198.6	26	3.6	7.05	3.4	5.6	-	-			
	231.9	23	3.4	6.04	3.4	5.5	-	-			
	262.3	20	3.5	5.34	3.4	5.3	-	-			
	293.8	18	3.7	4.77	3.4	5.1	-	-			
	340.5	15	4.0	4.11	3.4	4.7	-	-			
	53.1	99	0.9	26.36	2.7	5.1	-	-	PKD A 0290 - 80M/4A	15	114-115
	60.2	87	1.0	23.28	2.8	5.1	-	-			
	68.8	76	1.2	20.35	2.9	5.1	-	-			
	79.7	66	0.9	17.58	3.0	5.1	-	-			
	103.2	51	1.5	13.57	3.1	5.1	-	-			
	126.7	41	2.2	11.05	3.2	5.1	-	-			
	144.8	36	2.5	9.67	3.2	5.1	-	-			
	155.8	34	2.7	8.99	3.2	5.1	-	-			
	178.1	29	3.1	7.86	3.2	5.1	-	-			
	217.2	24	2.8	6.45	3.2	4.9	-	-			
	242.2	22	3.4	5.78	3.1	4.7	-	-			
	267.1	20	3.1	5.24	3.0	4.5	-	-			
	363.2	14	3.5	3.85	2.8	4.0	-	-			
0.75	1.0	7414	1.1	1448.34	56.0	50.0	66.0	50.0	PKD 7390/32 - 80M/4B	369	206
	1.2	5767	1.5	1166.22	60.0	50.0	66.0	50.0			
	1.4	4670	1.8	972.42	62.0	50.0	66.0	50.0			
	1.8	3723	2.3	765.14	63.0	50.0	66.0	50.0			
	2.3	2889	2.9	596.10	64.0	50.0	66.0	50.0			
	1.0	7105	1.2	1388.82	57.0	50.0	66.0	50.0	PKD 6390/32 - 80M/4B	369	206
	1.3	5721	1.4	1118.29	60.0	50.0	66.0	50.0			
	1.5	4771	1.7	932.46	62.0	50.0	66.0	50.0			
	1.9	3754	2.2	733.69	63.0	50.0	66.0	50.0			
	2.4	2924	2.8	571.60	64.0	50.0	66.0	50.0			
	1.3	5433	0.9	1061.93	23.0	45.0	38.0	45.0	PKD 5490 - 80M/4B	213	178-179
	1.5	4763	1.0	931.06	28.0	45.0	38.0	45.0			
	2.0	3600	1.1	703.71	33.0	45.0	38.0	45.0			
	2.4	2970	1.6	580.56	35.0	45.0	38.0	45.0			
	3.0	2349	2.0	459.05	36.0	45.0	38.0	45.0			
	4.0	1785	2.7	348.85	37.0	45.0	38.0	45.0			
	5.3	1354	3.2	264.64	38.0	45.0	38.0	45.0			
	6.1	1172	3.1	228.99	38.0	45.0	38.0	45.0			

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	mm
0.75	2.2	3298	0.8	644.73	18.0	40.0	28.0	37.0			
	2.5	2905	1.0	567.85	21.0	40.0	28.0	37.0			
	4.0	1793	1.6	350.42	26.0	40.0	28.0	35.0	**PKD 4490 - 80M/4B**	133	170-171
	5.0	1427	2.0	278.98	27.0	40.0	28.0	33.0			
	6.9	1044	2.7	204.13	27.0	40.0	28.0	31.0			
	8.1	880	2.8	172.07	28.0	40.0	28.0	30.0			
	4.0	1806	0.9	353.00	1.0	15.0	14.0	20.0	**PKD 3490 - 80M/4B**	79	162-163
	4.7	1515	1.0	296.10	8.0	15.0	15.0	19.0			
	5.6	1279	1.2	250.01	11.0	15.0	15.0	19.0			
	6.0	1198	1.3	234.13	11.0	15.0	15.0	19.0			
	7.1	1011	1.5	197.69	13.0	15.0	15.0	18.0	**PKD 3390 - 80M/4B**	73	158-159
	12.6	568	2.7	110.94	14.0	15.0	15.0	17.0			
	14.9	479	2.8	93.67	15.0	15.0	15.0	16.0			
	16.6	431	3.1	84.16	15.0	15.0	15.0	16.0			
	6.4	1122	0.8	219.34	0.2	12.0	4.0	18.0			
	7.6	944	0.9	184.51	0.4	12.0	8.0	18.0			
	8.2	869	1.0	169.88	0.4	12.0	9.0	18.0			
	10.2	704	1.2	137.63	5.0	12.0	10.0	17.0			
	12.1	592	1.5	115.77	7.0	12.0	11.0	17.0			
	14.2	506	1.7	98.92	8.0	12.0	12.0	16.0			
	16.4	436	2.0	85.23	8.0	12.0	12.0	16.0			
	17.8	403	2.1	78.85	8.0	12.0	12.0	16.0	**PKD 2390 - 80M/4B**	51	150-151
	21.1	340	2.5	66.47	9.0	12.0	12.0	15.0			
	24.0	298	2.9	58.24	9.0	12.0	12.0	15.0			
	26.9	267	3.2	52.11	9.0	12.0	12.0	14.0			
	28.6	251	3.1	48.99	9.0	12.0	12.0	14.0			
	31.2	229	3.3	44.80	9.0	12.0	12.0	14.0			
	35.3	203	3.4	39.70	9.0	12.0	12.0	13.0			
	9.3	767	0.8	149.85	5.0	20.0	9.0	20.0			
	9.8	729	0.8	142.45	6.0	20.0	9.0	20.0			
	12.0	596	1.0	116.55	7.0	20.0	9.0	20.0			
	15.2	470	1.1	91.88	8.0	20.0	9.0	20.0			
	17.2	416	1.4	81.40	9.0	20.0	9.0	20.0			
	19.5	368	1.6	71.94	9.0	20.0	9.0	20.0	**PKD G 1390 - 80M/4B**	44	142-143
	21.9	328	1.9	64.06	9.0	20.0	9.0	20.0			
	26.7	268	2.3	52.42	9.0	20.0	9.0	20.0			
	30.3	236	2.6	46.16	9.0	20.0	9.0	20.0			
	34.3	209	2.9	40.87	9.0	20.0	9.0	20.0			
	14.4	498	0.8	97.43	3.0	20.0	8.0	20.0			
	16.3	441	0.9	86.12	4.0	20.0	8.0	20.0			
	18.3	392	1.0	76.68	5.0	20.0	9.0	20.0			
	22.3	321	1.2	62.74	6.0	20.0	9.0	20.0			
	25.3	283	1.4	55.26	6.0	20.0	9.0	20.0			
	28.6	250	1.6	48.92	7.0	20.0	9.0	20.0			
	33.6	213	1.9	41.72	7.0	20.0	9.0	20.0			
	40.2	178	2.2	34.86	7.0	20.0	9.0	20.0			
	44.5	161	2.5	31.48	7.0	20.0	9.0	20.0			
	50.5	142	2.8	27.72	7.0	20.0	9.0	20.0	**PKD 1390 - 80M/4B**	43	134-135
	57.0	126	3.2	24.55	7.0	20.0	9.0	20.0			
	66.9	107	3.3	20.93	7.0	19.0	9.0	19.0			
	80.1	89	3.3	17.49	7.0	18.0	9.0	18.0			
	91.7	78	3.5	15.27	7.0	18.0	9.0	18.0			
	114.1	63	3.1	12.27	7.0	17.0	9.0	17.0			
	128.9	56	3.2	10.86	7.0	16.0	9.0	16.0			
	151.1	47	3.3	9.26	7.0	15.0	9.0	15.0			
	173.1	41	3.5	8.09	7.0	15.0	9.0	15.0			
	21.9	327	1.4	63.96	7.5	12.0	-	-			
	25.0	286	1.4	55.96	7.7	12.0	-	-			
	26.7	268	2.1	52.42	7.8	12.0	-	-	**PKD H 5290 - 80M/4B**	51	130-131
	30.5	235	2.2	45.86	7.9	12.0	-	-			
	34.3	209	2.2	40.77	8.0	12.0	-	-			
	23.6	303	1.2	59.20	4.9	12.0	-	-			
	27.0	265	1.3	51.80	5.3	12.0	-	-			
	29.2	246	1.5	48.01	5.4	12.0	-	-			
	33.3	215	1.6	42.01	5.6	12.0	-	-	**PKD F 4290 - 80M/4B**	44	126-127
	37.5	191	1.7	37.34	5.7	12.0	-	-			
	87.1	82	3.2	16.08	6.1	12.0	-	-			

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	mm
0.75	36.3	197	1.0	38.59	3.7	9.0	-	-	PKD C 1290 - 80M/4B	27	122-123
	41.5	173	1.1	33.76	4.0	9.0	-	-			
	44.8	160	1.2	31.27	4.1	9.0	-	-			
	51.2	140	1.6	27.36	4.2	9.0	-	-			
	57.6	124	1.7	24.32	4.4	9.0	-	-			
	95.6	75	2.5	14.66	4.6	9.0	-	-			
	107.6	67	2.7	12.99	4.6	9.0	-	-			
	122.9	58	2.7	11.37	4.7	9.0	-	-			
	129.2	55	2.9	10.81	4.7	9.0	-	-			
	49.6	144	0.8	28.21	2.0	5.6	-	-	PKD B 0290 - 80M/4B	21	118-119
	53.9	133	0.9	25.99	2.2	5.6	-	-			
	61.6	116	1.0	22.74	2.5	5.6	-	-			
	74.4	96	0.9	18.81	2.9	5.6	-	-			
	89.6	80	1.5	15.62	3.0	5.6	-	-			
	103.9	69	1.7	13.48	3.1	5.6	-	-			
	118.7	60	1.9	11.79	3.2	5.6	-	-			
	135.3	53	2.1	10.35	3.3	5.6	-	-			
	154.6	46	2.3	9.06	3.3	5.6	-	-			
	174.9	41	2.4	8.00	3.3	5.6	-	-			
	198.6	36	2.6	7.05	3.3	5.6	-	-			
	231.9	31	2.5	6.04	3.4	5.4	-	-			
	262.3	27	2.7	5.34	3.4	5.2	-	-			
	293.8	24	2.7	4.77	3.4	5.0	-	-			
	340.5	21	2.8	4.11	3.3	4.7	-	-			
	68.8	104	0.9	20.35	2.6	5.1	-	-	PKD A 0290 - 80M/4B	16	114-115
	103.2	69	1.1	13.57	3.0	5.1	-	-			
	126.7	57	1.6	11.05	3.1	5.1	-	-			
	144.8	49	1.8	9.67	3.1	5.1	-	-			
	155.8	46	2.0	8.99	3.2	5.1	-	-			
	178.1	40	2.2	7.86	3.2	5.1	-	-			
	217.2	33	2.0	6.45	3.1	4.8	-	-			
	242.2	30	2.5	5.78	3.0	4.6	-	-			
	267.1	27	2.3	5.24	3.0	4.4	-	-			
	363.2	20	2.5	3.85	2.7	3.9	-	-			
1.10	1.0	10614	3.0	1424.59	155.0	70.0	160.0	70.0	PKD 9390/52 - 90S/4A	1495	208
	1.0	10902	1.8	1463.24	116.0	65.0	120.0	65.0	PKD G 8390/52 -90S/4A	919	208
	1.2	8968	2.2	1203.73	118.0	65.0	120.0	65.0			
	1.5	6778	3.0	909.80	120.0	65.0	120.0	65.0			
	1.0	10933	1.2	1467.49	87.0	60.0	95.0	60.0	PKD 8390/42 -90S/4A	650	208
	1.4	7584	1.7	1017.96	93.0	60.0	95.0	60.0			
	1.7	6299	2.1	845.40	94.0	60.0	95.0	60.0			
	2.0	5253	2.5	705.03	95.0	60.0	95.0	60.0			
	2.3	4492	2.9	602.92	95.0	60.0	95.0	60.0			
	1.0	10791	0.8	1448.34	40.0	50.0	66.0	50.0	PKD 7390/32 - 90S/4A	371	206
	1.2	8689	1.0	1166.22	51.0	50.0	66.0	50.0			
	1.4	7245	1.2	972.42	56.0	50.0	66.0	50.0			
	1.8	5701	1.5	765.14	60.0	50.0	66.0	50.0			
	2.4	4441	1.9	596.10	62.0	50.0	66.0	50.0			
	3.0	3508	2.4	470.91	64.0	50.0	66.0	50.0			
	3.7	2866	3.0	384.74	64.0	50.0	66.0	50.0			
	4.5	2310	3.7	310.09	65.0	50.0	66.0	50.0			
	1.0	10347	0.8	1388.82	43.0	50.0	66.0	50.0	PKD 6390/32 - 90S/4A	371	206
	1.3	8332	1.0	1118.29	53.0	50.0	66.0	50.0			
	1.5	6947	1.2	932.46	57.0	50.0	66.0	50.0			
	1.9	5466	1.5	733.69	61.0	50.0	66.0	50.0			
	2.5	4259	1.9	571.60	62.0	50.0	66.0	50.0			
	3.1	3364	2.4	451.55	64.0	50.0	66.0	50.0			
	3.8	2749	3.0	368.93	64.0	50.0	66.0	50.0			
	4.7	2215	3.7	297.35	65.0	50.0	66.0	50.0			
	2.0	5243	0.8	703.71	25.0	45.0	38.0	45.0	PKD 5490 - 90S/4A	215	178-179
	2.4	4325	1.1	580.56	30.0	45.0	38.0	45.0			
	3.1	3420	1.4	459.05	33.0	45.0	38.0	45.0			
	4.0	2599	1.8	348.85	36.0	45.0	38.0	45.0			
	5.3	1972	2.4	264.64	37.0	45.0	38.0	45.0			
	6.2	1706	2.8	228.99	38.0	45.0	38.0	45.0			

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	mm
1.10	1.0	10347	0.8	1388.82	43.0	50.0	66.0	50.0	PKD 6390/32 - 90S/4A	371	206
	1.3	8332	1.0	1118.29	53.0	50.0	66.0	50.0			
	1.5	6947	1.2	932.46	57.0	50.0	66.0	50.0			
	1.9	5466	1.5	733.69	61.0	50.0	66.0	50.0			
	2.5	4259	1.9	571.60	62.0	50.0	66.0	50.0			
	3.1	3364	2.4	451.55	64.0	50.0	66.0	50.0			
	3.8	2749	3.0	368.93	64.0	50.0	66.0	50.0			
	4.7	2215	3.7	297.35	65.0	50.0	66.0	50.0			
	2.0	5243	0.8	703.71	25.0	45.0	38.0	45.0	PKD 5490 - 90S/4A	215	178-179
	2.4	4325	1.1	580.56	30.0	45.0	38.0	45.0			
	3.1	3420	1.4	459.05	33.0	45.0	38.0	45.0			
	4.0	2599	1.8	348.85	36.0	45.0	38.0	45.0			
	5.3	1972	2.4	264.64	37.0	45.0	38.0	45.0			
	6.2	1706	2.8	228.99	38.0	45.0	38.0	45.0			
	4.9	2158	2.2	289.62	37.0	45.0	38.0	45.0	PKD 5390 - 90S/4A	199	174-175
	5.7	1843	2.6	247.36	37.0	45.0	38.0	45.0			
	3.5	3014	0.9	404.53	20.0	40.0	28.0	31.0	PKD 4490 - 90S/4A	135	170-171
	4.0	2611	1.1	350.42	23.0	40.0	28.0	31.0			
	4.3	2455	1.1	329.57	23.0	40.0	28.0	31.0	PKD 4390 - 90S/4A	124	166-167
	5.1	2040	1.4	273.80	25.0	40.0	28.0	30.0			
	6.0	1750	1.6	234.83	26.0	40.0	28.0	30.0			
	7.2	1453	1.9	195.09	27.0	40.0	28.0	29.0			
	8.5	1232	1.2	165.34	27.0	40.0	28.0	28.0			
	12.0	878	2.7	117.81	28.0	40.0	28.0	26.0			
	5.3	1995	0.8	267.79	1.0	15.0	12.0	17.0	PKD 3490 - 90S/4A	81	162-163
	5.6	1863	0.8	250.01	1.0	15.0	14.0	16.0	PKD 3390 - 90S/4A	75	158-159
	6.0	1744	0.9	234.13	4.0	15.0	15.0	16.0			
	7.1	1473	1.1	197.69	9.0	15.0	15.0	16.0			
	7.5	1402	1.1	188.22	9.0	15.0	15.0	16.0			
	8.9	1184	1.3	158.92	11.0	15.0	15.0	16.0			
	10.1	1089	1.5	139.49	12.0	15.0	15.0	16.0			
	12.0	877	1.8	117.78	13.0	15.0	15.0	15.0			
	12.7	827	1.9	110.94	14.0	15.0	15.0	15.0			
	15.1	698	2.2	93.67	14.0	15.0	15.0	15.0			
	16.8	627	2.5	84.16	14.0	15.0	15.0	15.0			
	18.6	566	2.7	75.92	13.0	15.0	15.0	15.0			
	22.0	478	3.2	64.11	13.0	15.0	15.0	14.0			
	23.8	441	3.5	59.15	13.0	15.0	15.0	14.0			
	14.3	737	1.2	98.92	5.0	12.0	10.0	15.0	PKD 2390 - 90S/4A	53	150-151
	17.9	587	1.5	78.85	7.0	12.0	11.0	15.0			
	21.2	495	1.7	66.47	8.0	12.0	12.0	14.0			
	24.2	434	2.0	58.24	8.0	12.0	12.0	14.0			
	27.1	388	2.2	52.11	8.0	12.0	12.0	14.0			
	28.8	365	2.4	48.99	9.0	12.0	12.0	13.0			
	31.5	334	2.6	44.80	9.0	12.0	12.0	13.0			
	35.5	296	2.9	39.70	9.0	12.0	12.0	13.0			
	42.4	248	2.8	33.28	9.0	12.0	12.0	12.0			
	44.9	234	3.5	31.43	9.0	12.0	12.0	12.0			
	48.3	218	3.2	29.22	9.0	12.0	12.0	12.0			
	17.3	606	1.0	81.40	7.0	20.0	9.0	20.0	PKD G 1390 - 90S/4A	46	142-143
	19.6	536	1.1	71.94	8.0	20.0	9.0	20.0			
	22.0	477	1.3	64.06	8.0	20.0	9.0	20.0			
	26.9	391	1.6	52.42	9.0	20.0	9.0	20.0			
	30.5	344	1.8	46.16	9.0	20.0	9.0	20.0			
	34.5	305	2.0	40.87	9.0	20.0	9.0	20.0			
	40.4	260	2.3	34.86	9.0	20.0	9.0	20.0			
	46.3	227	2.6	30.44	9.0	20.0	9.0	20.0			

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	mm
1.10	22.5	467	0.9	62.74	4.0	20.0	8.0	20.0	PKD 1390 - 90S/4A	45	134-135
	25.5	412	1.0	55.26	5.0	20.0	9.0	20.0			
	28.8	365	1.1	48.92	5.0	20.0	9.0	20.0			
	33.8	311	1.3	41.72	6.0	20.0	9.0	20.0			
	40.4	260	1.5	34.86	6.0	20.0	9.0	20.0			
	44.8	235	1.7	31.48	7.0	20.0	9.0	20.0			
	50.9	207	1.9	27.72	7.0	20.0	9.0	20.0			
	57.4	183	2.2	24.55	7.0	19.0	9.0	19.0			
	67.4	156	2.6	20.93	7.0	19.0	9.0	19.0			
	80.6	130	2.9	17.49	7.0	18.0	9.0	18.0			
	92.3	114	3.3	15.27	7.0	17.0	9.0	17.0			
	114.9	91	2.4	12.27	7.0	16.0	9.0	16.0			
	129.8	81	2.5	10.86	7.0	16.0	9.0	16.0			
	152.2	69	2.8	9.26	7.0	15.0	9.0	15.0			
	174.3	60	3.0	8.09	7.0	15.0	9.0	15.0			
	26.9	391	1.5	52.42	7.2	12.0	-	-	PKD H 5290 - 90S/4A	54	130-131
	30.7	342	1.5	45.86	7.4	12.0	-	-			
	34.6	304	1.5	40.77	7.6	12.0	-	-			
	38.5	273	2.4	36.59	7.8	12.0	-	-			
	44.0	239	2.6	32.02	7.9	12.0	-	-			
	49.5	212	2.8	28.46	8.0	12.0	-	-			
	79.0	133	3.2	17.84	8.2	12.0	-	-			
	29.4	358	1.0	48.01	4.3	12.0	-	-	PKD F 4290 - 90S/4A	47	126-127
	33.6	313	1.1	42.01	4.8	12.0	-	-			
	37.8	278	1.2	37.34	5.1	12.0	-	-			
	41.3	254	1.5	34.15	5.3	12.0	-	-			
	47.2	223	1.5	29.88	5.5	12.0	-	-			
	53.1	198	1.7	26.56	5.7	12.0	-	-			
	87.7	120	3.1	16.08	6.0	12.0	-	-			
	100.2	105	3.2	14.07	6.1	12.0	-	-			
	45.1	233	0.8	31.27	3.2	9.0	-	-	PKD C 1290 - 90S/4	30	122-123
	51.5	204	1.1	27.36	3.6	9.0	-	-			
	58.0	181	1.2	24.32	3.9	9.0	-	-			
	64.3	163	1.2	21.94	4.1	9.0	-	-			
	73.5	143	1.6	19.19	4.2	9.0	-	-			
	82.6	127	1.8	17.06	4.3	9.0	-	-			
	96.2	109	1.7	14.66	4.4	9.0	-	-			
	108.5	97	2.0	12.99	4.5	9.0	-	-			
	124.0	85	2.3	11.37	4.6	9.0	-	-			
	130.4	81	2.2	10.81	4.6	9.0	-	-			
	148.9	71	2.5	9.47	4.6	9.0	-	-			
	170.2	62	2.8	8.29	4.7	9.0	-	-			
	193.3	54	3.0	7.29	4.7	8.6	-	-			
	217.5	48	3.1	6.48	4.7	8.3	-	-			
	136.2	77	1.4	10.35	3.1	5.6	-	-	PKD B 0290 - 90S/4	24	118 -119
	155.7	67	1.6	9.06	3.2	5.6	-	-			
	176.1	60	1.7	8.00	3.2	5.6	-	-			
	200.1	53	1.8	7.05	3.3	5.5	-	-			
	233.5	45	2.0	6.04	3.3	5.2	-	-			
	264.2	40	2.1	5.34	3.3	5.0	-	-			
	295.9	36	2.3	4.77	3.3	4.8	-	-			
	343.0	31	2.4	4.11	3.2	4.5	-	-			
	243.9	43	1.9	5.78	2.9	4.3	-	-	PKD A 0290 - 90S/4	19	114-115
	365.8	29	2.5	3.85	2.6	3.8	-	-			
1.50	1.0	14371	2.2	1424.59	152.0	70.0	160.0	70.0	PKD 9390/52 - 90L/4A	1497	208
	1.3	11292	2.8	1119.32	154.0	70.0	160.0	70.0			
	1.0	14761	1.4	1463.24	109.0	65.0	120.0	65.0	PKD G 8390/52 -90L/4A	921	208
	1.2	12143	1.6	1203.73	114.0	65.0	120.0	65.0			
	1.6	9178	2.2	909.80	117.0	65.0	120.0	65.0			
	2.0	7211	2.8	714.84	120.0	65.0	120.0	65.0			
	1.0	14804	0.9	1467.49	78.0	60.0	95.0	60.0	PKD 8390/42 - 90L/4A	652	208
	1.4	10269	1.3	1017.96	89.0	60.0	95.0	60.0			
	1.7	8528	1.5	845.40	91.0	60.0	95.0	60.0			
	2.0	7112	1.8	705.03	93.0	60.0	95.0	60.0			
	2.4	6082	2.1	602.92	94.0	60.0	95.0	60.0			
	3.2	4483	2.9	444.35	95.0	60.0	95.0	60.0			
	3.7	3833	3.1	379.99	95.0	60.0	95.0	60.0			

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	mm
1.50	1.5	9810	0.9	972.42	45.0	50.0	66.0	50.0	PKD 7390/32 - 90L/4A	373	206
	1.9	7719	1.1	765.14	54.0	50.0	66.0	50.0			
	2.4	6013	1.4	596.10	59.0	50.0	66.0	50.0			
	3.0	4751	1.8	470.91	62.0	50.0	66.0	50.0			
	3.7	3881	2.2	384.74	63.0	50.0	66.0	50.0			
	4.6	3128	2.7	310.09	64.0	50.0	66.0	50.0			
	5.3	2718	3.1	269.43	65.0	50.0	66.0	50.0	PKD 7390/42 - 90L/4A	392	206
	1.5	9407	0.9	932.46	48.0	50.0	66.0	50.0	PKD 6390/32 - 90L/4A	373	206
	1.9	7401	1.1	733.69	55.0	50.0	66.0	50.0			
	2.5	5766	1.4	571.60	60.0	50.0	66.0	50.0			
	3.1	4555	1.8	451.55	62.0	50.0	66.0	50.0			
	3.8	3722	2.2	368.93	63.0	50.0	66.0	50.0			
	4.8	3000	2.7	297.35	64.0	50.0	66.0	50.0			
	5.5	2606	3.1	258.36	64.0	50.0	66.0	50.0	PKD 6390/42 - 90L/4A	392	206
	6.0	2375	3.5	235.45	63.0	50.0	66.0	50.0	PKD 6390 - 100L/6A	352	182-183
	3.1	4631	1.0	459.05	28.0	45.0	38.0	45.0	PKD 5490 - 90L/4A	217	178-179
	4.1	3519	1.4	348.85	33.0	45.0	38.0	45.0			
	5.4	2670	1.8	264.64	36.0	45.0	38.0	45.0			
	6.2	2310	2.1	228.99	36.0	45.0	38.0	45.0			
	8.6	1665	2.4	165.02	38.0	45.0	38.0	44.0			
	4.9	2922	1.6	289.62	35.0	45.0	38.0	45.0	PKD 5390 - 90L/4A	201	174-175
	5.7	2495	1.9	247.36	36.0	45.0	38.0	45.0			
	9.8	1466	2.5	145.30	38.0	45.0	38.0	43.0			
	4.1	3535	0.8	350.42	16.0	40.0	28.0	28.0	PKD 4490 - 90L/4A	137	170-171
	4.3	3325	0.8	329.57	18.0	40.0	28.0	28.0	PKD 4390 - 90L/4A	126	166-167
	5.2	2762	1.0	273.80	22.0	40.0	28.0	28.0			
	6.0	2369	1.2	234.83	23.0	40.0	28.0	28.0			
	7.3	1968	1.4	195.09	25.0	40.0	28.0	27.0			
	8.6	1668	0.9	165.34	26.0	40.0	28.0	27.0			
	12.1	1188	2.0	117.81	27.0	40.0	28.0	25.0			
	14.9	964	2.6	95.57	28.0	40.0	28.0	24.0			
	16.4	873	2.7	86.50	28.0	40.0	28.0	24.0			
	7.2	1994	0.8	197.69	1.0	15.0	12.0	14.0	PKD 3390 - 90L/4A	77	158-159
	7.5	1899	0.8	188.22	1.0	15.0	13.0	14.0			
	8.9	1603	1.0	158.92	7.0	15.0	15.0	14.0			
	10.2	1407	1.1	139.49	9.0	15.0	15.0	14.0			
	12.1	1188	1.3	117.78	11.0	15.0	15.0	14.0			
	12.8	1119	1.4	110.94	12.0	15.0	15.0	14.0			
	15.2	945	1.6	93.67	13.0	15.0	15.0	14.0			
	16.9	849	1.8	84.16	12.0	15.0	15.0	14.0			
	18.7	766	2.0	75.92	12.0	15.0	15.0	14.0			
	22.2	647	2.4	64.11	12.0	15.0	15.0	13.0			
	24.0	597	2.6	59.15	12.0	15.0	15.0	13.0			
	28.4	504	2.7	49.94	11.0	15.0	15.0	13.0			
	29.8	481	3.0	47.67	11.0	15.0	15.0	13.0			
	35.2	407	3.0	40.37	11.0	15.0	15.0	12.0			
	14.4	998	0.9	98.92	0.3	12.0	7.0	13.0	PKD 2390 - 90L/4A	55	150-151
	18.0	795	1.1	78.85	4.0	12.0	10.0	13.0			
	21.4	671	1.3	66.47	6.0	12.0	11.0	13.0			
	24.4	588	1.5	58.24	7.0	12.0	11.0	13.0			
	27.3	526	1.6	52.11	8.0	12.0	12.0	13.0			
	29.0	494	1.7	48.99	8.0	12.0	12.0	13.0			
	31.7	452	1.9	44.80	8.0	12.0	12.0	13.0			
	35.8	400	2.1	39.70	8.0	12.0	12.0	12.0			
	42.7	336	2.1	33.28	9.0	12.0	12.0	12.0			
	45.2	317	2.6	31.43	9.0	12.0	12.0	12.0			
	48.6	295	2.4	29.22	9.0	12.0	12.0	12.0			
	54.3	264	2.5	26.14	9.0	12.0	12.0	11.0			
	57.8	248	2.4	24.58	9.0	12.0	12.0	11.0			
	63.2	227	2.6	22.48	9.0	12.0	12.0	11.0			
	71.3	201	2.7	19.92	9.0	12.0	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	mm
1.50	19.7	726	0.8	71.94	5.0	20.0	9.0	20.0	PKD G 1390 - 90L/4A	48	142-143
	22.2	646	0.9	64.06	7.0	20.0	9.0	20.0			
	27.1	529	1.2	52.42	8.0	20.0	9.0	20.0			
	30.8	466	1.3	46.16	8.0	20.0	9.0	20.0			
	34.7	412	1.5	40.87	9.0	20.0	9.0	20.0			
	40.7	352	1.7	34.86	9.0	20.0	9.0	20.0			
	46.7	307	2.0	30.44	9.0	19.0	9.0	19.0			
	54.0	265	2.3	26.30	9.0	19.0	9.0	19.0			
	61.3	234	2.2	23.16	9.0	19.0	9.0	19.0			
	69.2	207	2.5	20.51	9.0	18.0	9.0	18.0			
	29.0	494	0.8	48.92	3.0	20.0	8.0	20.0	PKD 1390 -90L/4A	47	134-135
	34.0	421	1.0	41.72	5.0	20.0	8.0	20.0			
	40.7	352	1.1	34.86	6.0	20.0	9.0	20.0			
	45.1	318	1.3	31.48	6.0	20.0	9.0	20.0			
	51.2	280	1.4	27.72	6.0	19.0	9.0	19.0			
	57.9	248	1.6	24.55	7.0	19.0	9.0	19.0			
	67.8	211	1.9	20.93	7.0	18.0	9.0	18.0			
	81.2	176	2.2	17.49	7.0	17.0	9.0	17.0			
	93.0	154	2.5	15.27	7.0	17.0	9.0	17.0			
	115.8	124	1.8	12.27	7.0	16.0	9.0	16.0			
	130.7	110	1.8	10.86	7.0	15.0	9.0	15.0			
	153.3	93	2.1	9.26	7.0	15.0	9.0	15.0			
	175.6	82	2.2	8.09	7.0	14.0	9.0	14.0			
	27.1	529	1.1	52.42	6.2	12.0	-	-	PKD H 5290 -90L/4A	56	130-131
	31.0	463	1.1	45.86	6.6	12.0	-	-			
	34.8	411	1.1	40.77	7.0	12.0	-	-			
	38.8	369	1.8	36.59	7.3	12.0	-	-			
	44.3	323	2.0	32.02	7.6	12.0	-	-			
	49.9	287	2.1	28.46	7.7	12.0	-	-			
	79.6	180	2.3	17.84	8.1	12.0	-	-			
	29.6	484	0.8	48.01	0.9	12.0	-	-	PKD F 4290 - 90L/4A	49	126-127
	33.8	424	0.8	42.01	3.1	12.0	-	-			
	38.0	377	0.9	37.34	3.9	12.0	-	-			
	41.6	345	1.1	34.15	4.4	12.0	-	-			
	47.5	301	1.1	29.88	4.9	12.0	-	-			
	53.5	268	1.2	26.56	5.2	12.0	-	-			
	88.3	162	2.3	16.08	5.9	12.0	-	-			
	100.9	142	2.4	14.07	5.9	12.0	-	-			
	112.4	127	2.4	12.63	6.0	12.0	-	-			
	129.3	111	2.6	10.98	6.0	12.0	-	-			
	145.4	98	2.6	9.76	6.1	12.0	-	-			
	163.7	87	2.6	8.67	6.1	12.0	-	-			
	51.9	276	0.8	27.36	2.2	9.0	-	-	PKD C 1290 - 90L/4A	32	122-123
	58.4	245	0.9	24.32	2.9	9.0	-	-			
	64.7	221	0.9	21.94	3.4	9.0	-	-			
	74.0	194	1.2	19.19	3.7	9.0	-	-			
	83.2	172	1.3	17.06	4.0	9.0	-	-			
	96.9	148	1.3	14.66	4.2	9.0	-	-			
	109.3	131	1.5	12.99	4.3	9.0	-	-			
	124.9	115	1.7	11.37	4.4	9.0	-	-			
	131.3	109	1.7	10.81	4.4	9.0	-	-			
	149.9	96	1.8	9.47	4.5	9.0	-	-			
	171.4	84	2.1	8.29	4.6	8.8	-	-			
	194.7	74	2.2	7.29	4.6	8.4	-	-			
	219.0	65	2.3	6.48	4.6	8.1	-	-			
	237.7	60	2.4	5.97	4.7	7.8	-	-			
	267.4	54	2.4	5.31	4.7	7.5	-	-			
	137.2	104	1.1	10.35	2.7	5.6	-	-	PKD B 0290 - 90L/4A	26	118 -119
	156.8	91	1.1	9.06	2.9	5.6	-	-			
	177.4	81	1.2	8.00	3.0	5.4	-	-			
	201.5	71	1.3	7.05	3.1	5.2	-	-			
	235.2	61	1.5	6.04	3.2	5.0	-	-			
	266.1	54	1.6	5.34	3.2	4.7	-	-			
	298.0	48	1.7	4.77	3.2	4.6	-	-			
	345.4	41	1.8	4.11	3.1	4.3	-	-			

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	mm
2.20	1.1	19753	2.5	1353.86	220.0	100.0	-	-	**PKD G 9390/62 - 100L/4A**	1898	210
	1.2	17001	2.9	1165.22	220.0	100.0	-	-			
	1.0	21227	1.5	1424.59	144.0	70.0	160.0	70.0	**PKD 9390/52 - 100L/4A**	1505	208
	1.3	16679	1.9	1119.32	150.0	70.0	160.0	70.0			
	1.7	12606	2.5	846.00	154.0	70.0	160.0	70.0			
	2.0	10528	3.0	706.54	155.0	70.0	160.0	70.0			
	1.0	21803	0.9	1463.24	92.0	65.0	120.0	65.0	**PKD G 8390/52 -100L/4A**	928	208
	1.2	17936	1.1	1203.73	103.0	65.0	120.0	65.0			
	1.5	13557	1.5	909.80	112.0	65.0	120.0	65.0			
	2.0	10652	1.9	714.84	116.0	65.0	120.0	65.0			
	2.3	9293	2.2	623.65	118.0	65.0	120.0	65.0			
	1.4	15168	0.9	1017.96	78.0	60.0	95.0	60.0	**PKD 8390/42 - 100L/4A**	660	208
	1.7	12597	1.0	845.40	85.0	60.0	95.0	60.0			
	2.0	10505	1.2	705.03	88.0	60.0	95.0	60.0			
	2.3	8984	1.4	602.92	91.0	60.0	95.0	60.0			
	3.2	6621	2.0	444.35	94.0	60.0	95.0	60.0			
	3.7	5662	2.3	379.99	95.0	60.0	95.0	60.0			
	4.9	4262	3.1	286.02	95.0	60.0	95.0	60.0			
	1.8	11401	0.7	765.14	38.0	50.0	66.0	50.0	**PKD 7390/32 - 100L/4A**	382	206
	2.4	8882	1.0	596.10	51.0	50.0	66.0	50.0			
	3.0	7017	1.2	470.91	57.0	50.0	66.0	50.0			
	3.7	5733	1.0	384.74	60.0	50.0	66.0	50.0			
	4.5	4621	1.8	310.09	62.0	50.0	66.0	50.0			
	5.2	4015	2.1	269.43	64.0	50.0	66.0	50.0	**PKD 7390/42 - 100L/4A**	400	206
	7.2	2925	2.0	196.30	64.0	50.0	66.0	50.0			
	9.0	2340	2.7	157.05	65.0	50.0	66.0	49.0			
	5.7	3659	2.3	245.55	64.0	50.0	66.0	50.0	**PKD 7390 - 100L/4A**	352	186-187
	6.8	3084	2.8	206.98	64.0	50.0	66.0	50.0			
	10.3	2036	3.3	136.65	65.0	50.0	66.0	50.0			
	1.9	10933	0.8	733.69	43.0	50.0	66.0	50.0	**PKD 6390/32 - 100L/4A**	382	206
	2.5	8517	1.0	571.60	52.0	50.0	66.0	50.0			
	3.1	6728	1.2	451.55	58.0	50.0	66.0	50.0			
	3.8	5497	1.5	368.93	60.0	50.0	66.0	50.0			
	4.7	4431	1.9	297.35	62.0	50.0	66.0	50.0			
	5.5	3850	2.1	258.36	63.0	50.0	66.0	50.0	**PKD 6390/42 - 100L/4A**	400	206
	7.5	2805	2.6	188.23	64.0	50.0	66.0	50.0			
	9.4	2244	2.8	150.60	65.0	50.0	66.0	50.0			
	7.1	2954	2.8	198.23	64.0	50.0	66.0	50.0	**PKD 6390 - 100L/4A**	352	182-183
	10.9	1928	3.4	129.36	65.0	50.0	66.0	50.0			
	4.0	5198	0.9	348.85	26.0	45.0	38.0	45.0	**PKD 5490 - 100L/4A**	226	178-179
	4.9	4316	1.1	289.62	31.0	45.0	38.0	45.0	**PKD 5390 - 100L/4A**	209	174-175
	5.7	3686	1.3	247.36	33.0	45.0	38.0	45.0			
	7.1	2956	1.6	198.37	35.0	45.0	38.0	44.0			
	8.3	2525	1.9	169.43	36.0	45.0	38.0	42.0			
	9.7	2165	1.7	145.30	37.0	45.0	38.0	41.0			
	11.7	1788	2.7	120.01	37.0	45.0	38.0	39.0			
	13.8	1527	2.6	102.50	38.0	45.0	38.0	38.0			
	6.0	3499	0.8	234.83	17.0	40.0	28.0	23.0	**PKD 4390 - 100L/4A**	134	166-167
	7.2	2907	1.0	195.09	21.0	40.0	28.0	23.0			
	8.8	2383	1.2	159.93	24.0	40.0	28.0	24.0			
	10.6	1980	1.4	132.86	25.0	40.0	28.0	23.0			
	12.0	1755	1.4	117.81	26.0	40.0	28.0	23.0			
	14.8	1424	2.0	95.57	27.0	40.0	28.0	23.0			
	16.3	1289	2.2	86.50	27.0	40.0	28.0	22.0			
	18.5	1134	2.5	76.08	27.0	40.0	28.0	22.0			
	20.6	1021	2.7	68.52	28.0	40.0	28.0	21.0			
	22.3	942	2.7	63.21	28.0	40.0	28.0	21.0			
	25.3	830	3.1	55.67	28.0	40.0	28.0	21.0			

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	mm
2.20	12.7	1653	0.9	110.94	7.0	15.0	15.0	12.0	PKD 3390 - 100L/4A	86	158-159
	15.1	1396	1.1	93.67	10.0	15.0	15.0	12.0			
	16.8	1254	1.2	84.16	11.0	15.0	15.0	12.0			
	18.6	1131	1.4	75.92	11.0	15.0	15.0	12.0			
	22.0	955	1.6	64.11	11.0	15.0	15.0	12.0			
	23.8	881	1.8	59.15	11.0	15.0	15.0	12.0			
	28.2	744	2.1	49.94	10.0	15.0	15.0	12.0			
	29.6	710	2.2	47.67	10.0	15.0	15.0	12.0			
	34.9	601	2.6	40.37	10.0	15.0	15.0	11.0			
	37.0	568	2.2	38.09	10.0	15.0	15.0	11.0			
	39.5	531	2.2	35.65	10.0	15.0	15.0	11.0			
	47.5	442	2.6	29.67	10.0	15.0	15.0	11.0			
	21.2	990	0.9	66.47	0.4	12.0	8.0	11.0	PKD 2390 - 100L/4A	64	150-151
	24.2	868	1.0	58.24	2.0	12.0	9.0	11.0			
	27.1	776	1.1	52.11	5.0	12.0	10.0	11.0			
	28.8	730	1.2	48.99	5.0	12.0	10.0	11.0			
	31.5	668	1.3	44.80	6.0	12.0	11.0	11.0			
	35.5	592	1.5	39.70	7.0	12.0	11.0	11.0			
	42.4	496	1.5	33.28	8.0	12.0	12.0	11.0			
	44.9	468	1.8	31.43	8.0	12.0	12.0	11.0			
	48.3	435	2.0	29.22	8.0	12.0	12.0	11.0			
	53.9	390	2.2	26.14	9.0	12.0	12.0	11.0			
	57.4	366	2.0	24.58	8.0	12.0	12.0	10.0			
	62.7	335	2.3	22.48	8.0	12.0	12.0	10.0			
	70.8	297	2.5	19.92	8.0	12.0	12.0	10.0			
	80.5	261	2.8	17.52	8.0	12.0	12.0	10.0			
	86.5	243	2.1	16.29	8.0	12.0	12.0	10.0			
	96.7	217	2.1	14.58	8.0	12.0	12.0	9.0			
	112.5	187	2.3	12.53	7.0	12.0	12.0	9.0			
	127.0	165	2.5	11.11	7.0	12.0	12.0	9.0			
	160.4	131	2.7	8.79	7.0	11.0	12.0	8.0			
	26.9	781	0.8	52.42	5.0	19.0	9.0	19.0	PKD G 1390 - 100L/4A	57	142-143
	30.5	688	0.9	46.16	7.0	18.0	9.0	18.0			
	34.5	609	1.0	40.87	7.0	18.0	9.0	18.0			
	40.4	519	1.2	34.86	8.0	18.0	9.0	18.0			
	46.3	454	1.3	30.44	9.0	18.0	9.0	18.0			
	53.6	392	1.5	26.30	9.0	18.0	9.0	18.0			
	60.9	345	1.5	23.16	9.0	17.0	9.0	17.0			
	68.8	306	1.9	20.51	9.0	17.0	9.0	17.0			
	80.6	261	2.1	17.49	9.0	16.0	9.0	16.0			
	92.3	228	2.3	15.27	9.0	16.0	9.0	16.0			
	112.9	186	2.5	12.49	9.0	15.0	9.0	15.0			
	40.4	519	0.8	34.86	3.0	18.0	8.0	18.0	PKD 1390 - 100L/4A	56	134-135
	44.8	469	0.9	31.48	4.0	18.0	8.0	18.0			
	50.9	413	1.0	27.72	5.0	18.0	9.0	18.0			
	57.4	366	1.1	24.55	6.0	17.0	9.0	17.0			
	67.4	312	1.3	20.93	6.0	17.0	9.0	17.0			
	80.6	261	1.5	17.49	7.0	16.0	9.0	16.0			
	92.3	228	1.7	15.27	7.0	16.0	9.0	16.0			
	114.9	183	1.2	12.27	7.0	15.0	9.0	15.0			
	129.8	162	1.2	10.86	7.0	15.0	9.0	15.0			
	152.2	138	1.4	9.26	7.0	14.0	9.0	14.0			
	174.3	121	1.5	8.09	7.0	14.0	9.0	14.0			
	38.5	545	1.2	36.59	6.1	12.0	-	-	PKD H 5290 - 100L/4A	64	130-131
	44.0	477	1.3	32.02	6.7	12.0	-	-			
	49.5	424	1.4	28.46	7.1	12.0	-	-			
	55.6	378	1.7	25.37	7.3	12.0	-	-			
	63.5	331	1.9	22.20	7.6	12.0	-	-			
	71.5	294	2.0	19.73	7.7	12.0	-	-			
	79.0	266	2.1	17.84	7.8	12.0	-	-			
	90.3	233	2.1	15.61	7.9	12.0	-	-			
	101.6	207	2.4	13.88	7.8	12.0	-	-			
	113.7	185	2.5	12.40	7.6	12.0	-	-			

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	mm
2.20	41.3	509	0.7	34.15	1.8	12.0	-	-	PKD F 4290 - 100L/4A	57	126-127
	47.2	445	0.8	29.88	3.0	12.0	-	-			
	53.1	396	0.8	26.56	3.9	12.0	-	-			
	60.6	347	1.1	23.26	4.6	12.0	-	-			
	69.3	303	1.1	20.35	5.0	12.0	-	-			
	77.9	270	1.2	18.09	5.3	12.0	-	-			
	87.7	240	1.5	16.08	5.5	12.0	-	-			
	100.2	210	1.6	14.07	5.7	12.0	-	-			
	111.6	188	1.8	12.63	5.8	12.0	-	-			
	128.4	164	2.0	10.98	5.9	11.8	-	-			
	144.4	145	2.2	9.76	5.9	11.3	-	-			
	162.6	129	2.5	8.67	6.0	10.9	-	-			
	182.9	115	2.6	7.71	6.0	10.4	-	-			
	207.4	101	2.8	6.80	6.1	10.0	-	-			
	238.2	88	2.9	5.92	6.1	9.5	-	-			
	73.5	286	0.8	19.19	2.3	9.0	-	-	PKD C 1290 - 100L/4A	40	122-123
	82.6	254	0.9	17.06	2.9	9.0	-	-			
	108.5	194	1.0	12.99	3.8	9.0	-	-			
	124.0	169	1.2	11.37	4.0	9.0	-	-			
	130.4	161	1.1	10.81	4.1	8.8	-	-			
	148.9	141	1.2	9.47	4.3	8.5	-	-			
	170.2	123	1.4	8.29	4.4	8.2	-	-			
	193.3	109	1.5	7.29	4.5	7.9	-	-			
	217.5	97	1.7	6.48	4.5	7.6	-	-			
	236.0	89	1.7	5.97	4.6	7.4	-	-			
	265.5	79	1.8	5.31	4.5	7.1	-	-			
3.00	1.0	27412	1.8	1353.86	220.0	100.0	-	-	PKD G 9390/62 - 100L/4B	1901	210
	1.2	23593	2.1	1165.22	220.0	100.0	-	-			
	1.4	19828	2.5	979.31	220.0	100.0	-	-			
	1.7	16533	3.0	816.57	220.0	100.0	-	-			
	1.0	28947	1.1	1424.59	129.0	70.0	160.0	70.0	PKD 9390/52 - 100L/4B	1508	208
	1.3	22744	1.4	1119.32	142.0	70.0	160.0	70.0			
	1.7	17190	1.9	846.00	149.0	70.0	160.0	70.0			
	2.0	14356	2.2	706.54	152.0	70.0	160.0	70.0			
	2.3	12390	2.6	609.75	154.0	70.0	160.0	70.0			
	3.2	9027	2.6	444.25	156.0	70.0	160.0	70.0			
	1.2	24459	0.8	1203.73	83.0	65.0	120.0	65.0	PKD G 8390/52 -100L/4B	931	208
	1.5	18486	1.1	909.80	102.0	65.0	120.0	65.0			
	2.0	14525	1.4	714.84	110.0	65.0	120.0	65.0			
	2.3	12672	1.6	623.65	113.0	65.0	120.0	65.0			
	3.2	8838	2.3	434.96	118.0	65.0	120.0	65.0			
	3.7	7711	2.6	379.47	119.0	65.0	120.0	65.0			
	1.7	17178	0.8	845.40	73.0	60.0	95.0	60.0	PKD 8390/42 - 100L/4B	663	208
	2.0	14326	0.9	705.03	80.0	60.0	95.0	60.0			
	2.3	12251	1.1	602.92	85.0	60.0	95.0	60.0			
	3.2	9029	1.4	444.35	91.0	60.0	95.0	60.0			
	3.7	7721	1.7	379.99	92.0	60.0	95.0	60.0			
	4.9	5812	2.2	286.02	94.0	60.0	95.0	60.0			
	5.7	5008	2.6	246.45	95.0	60.0	95.0	60.0	PKD 8390/52 - 100L/4B	688	208
	3.0	9568	0.9	470.91	47.0	50.0	66.0	50.0	PKD 7390/32 - 100L/4B	385	206
	3.7	7818	1.1	384.74	54.0	50.0	66.0	50.0			
	4.5	6301	1.3	310.09	59.0	50.0	66.0	50.0			
	5.2	5475	1.6	269.43	60.0	50.0	66.0	50.0	PKD 7390/42 - 100L/4B	403	206
	7.2	3989	1.9	196.30	63.0	50.0	66.0	50.0			
	9.0	3191	2.0	157.05	64.0	50.0	66.0	48.0			
	10.5	2729	2.3	134.31	65.0	50.0	66.0	46.0			
	5.7	4989	1.7	245.55	61.0	50.0	66.0	50.0	PKD 7390 - 100L/4B	355	186-187
	6.8	4206	2.0	206.98	63.0	50.0	66.0	50.0			
	10.3	2777	2.4	136.65	65.0	50.0	66.0	49.0			
	12.8	2237	2.4	110.10	65.0	50.0	66.0	47.0			
	15.4	1858	2.6	91.45	65.0	50.0	66.0	45.0			
	3.1	9175	0.9	451.55	49.0	50.0	66.0	50.0	PKD 6390/32 - 100L/4B	385	206
	3.8	7496	1.1	368.93	55.0	50.0	66.0	50.0			
	4.7	6042	1.4	297.35	59.0	50.0	66.0	50.0			

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	mm
3.00	5.5	5250	1.6	258.36	61.0	50.0	66.0	50.0			
	7.5	3825	1.9	188.23	63.0	50.0	66.0	50.0	**PKD 6390/42 - 100L/4B**	403	206
	9.4	3060	2.0	150.60	64.0	50.0	66.0	50.0			
	6.0	4784	1.7	235.45	61.0	50.0	66.0	50.0			
	7.1	4028	2.0	198.23	63.0	50.0	66.0	50.0			
	10.9	2628	2.5	129.36	64.0	50.0	66.0	50.0	**PKD 6390 - 100L/4B**	355	182-183
	13.4	2145	2.4	105.58	65.0	50.0	66.0	50.0			
	4.9	5885	0.8	289.62	20.0	45.0	38.0	43.0			
	5.7	5026	1.0	247.36	26.0	45.0	38.0	43.0			
	7.1	4031	1.2	198.37	31.0	45.0	38.0	42.0			
	8.3	3443	1.4	169.43	34.0	45.0	38.0	41.0			
	9.7	2952	1.2	145.30	35.0	45.0	38.0	40.0	**PKD 5390 - 100L/4B**	212	174-175
	11.7	2439	1.9	120.01	36.0	45.0	38.0	38.0			
	13.8	2083	1.9	102.50	37.0	45.0	38.0	37.0			
	16.0	1791	2.2	88.12	37.0	45.0	38.0	36.0			
	19.5	1467	2.4	72.18	38.0	45.0	38.0	34.0			
	8.2	3496	0.8	172.07	17.0	40.0	28.0	20.0	**PKD 4490 - 100L/4B**	149	170-171
	8.8	3250	0.9	159.93	19.0	40.0	28.0	20.0			
	10.6	2700	1.0	132.86	23.0	40.0	28.0	20.0			
	12.0	2394	1.0	117.81	24.0	40.0	28.0	21.0			
	14.8	1942	1.4	95.57	25.0	40.0	28.0	21.0			
	16.3	1758	1.6	86.50	26.0	40.0	28.0	21.0			
	18.5	1546	1.8	76.08	27.0	40.0	28.0	20.0			
	20.6	1392	2.0	68.52	27.0	40.0	28.0	20.0	**PKD 4390 - 100L/4B**	137	166-167
	22.3	1284	2.0	63.21	27.0	40.0	28.0	20.0			
	25.3	1131	2.3	55.67	27.0	40.0	28.0	20.0			
	29.6	967	2.5	47.61	28.0	40.0	28.0	19.0			
	34.8	824	2.6	40.56	28.0	40.0	28.0	19.0			
	41.0	698	2.1	34.38	28.0	40.0	28.0	18.0			
	50.5	568	2.3	27.93	28.0	40.0	28.0	17.0			
	15.1	1903	0.8	93.67	1.0	14.0	13.0	10.0			
	16.8	1710	0.9	84.16	5.0	15.0	15.0	10.0			
	18.6	1543	1.0	75.92	8.0	15.0	15.0	10.0			
	22.0	1303	1.2	64.11	9.0	15.0	15.0	10.0			
	23.8	1202	1.3	59.15	9.0	15.0	15.0	10.0			
	28.2	1015	1.5	49.94	9.0	15.0	15.0	10.0			
	29.6	969	1.6	47.67	9.0	15.0	15.0	11.0			
	34.9	820	1.9	40.37	9.0	15.0	15.0	10.0			
	37.0	774	1.7	38.09	9.0	15.0	15.0	10.0			
	39.5	724	1.6	35.65	9.0	15.0	15.0	10.0	**PKD 3390 - 100L/4B**	89	158-159
	47.5	603	1.9	29.67	9.0	14.0	15.0	10.0			
	56.3	509	1.9	25.06	9.0	14.0	15.0	10.0			
	59.0	486	2.1	23.92	9.0	14.0	15.0	10.0			
	69.6	411	2.2	20.25	8.0	13.0	15.0	10.0			
	82.5	347	2.3	17.10	8.0	13.0	15.0	9.0			
	89.6	320	2.4	15.73	8.0	12.0	15.0	9.0			
	104.1	275	2.3	13.54	8.0	12.0	15.0	9.0			
	111.2	258	2.1	12.68	7.0	11.0	15.0	9.0			
	131.3	218	2.2	10.74	7.0	11.0	15.0	8.0			
	27.1	1059	0.8	52.11	0.3	12.0	6.0	10.0			
	28.8	995	0.9	48.99	0.3	12.0	7.0	10.0			
	31.5	910	0.9	44.80	0.4	12.0	9.0	10.0			
	35.5	807	1.1	39.70	4.0	12.0	10.0	10.0			
	42.4	676	1.1	33.28	6.0	12.0	11.0	10.0			
	44.9	639	1.3	31.43	6.0	12.0	11.0	10.0			
	48.3	594	1.4	29.22	7.0	12.0	11.0	10.0			
	53.9	531	1.6	26.14	8.0	12.0	12.0	10.0			
	57.4	499	1.5	24.58	8.0	12.0	12.0	10.0	**PKD 2390 - 100L/4B**	67	150-151
	62.7	457	1.7	22.48	8.0	12.0	12.0	10.0			
	70.8	405	1.8	19.92	8.0	12.0	12.0	10.0			
	80.5	356	2.0	17.52	7.0	12.0	12.0	9.0			
	86.5	331	1.5	16.29	7.0	12.0	12.0	9.0			
	96.7	296	1.6	14.58	7.0	12.0	12.0	9.0			
	112.5	255	1.7	12.53	7.0	11.0	12.0	9.0			
	127.0	226	1.8	11.11	7.0	11.0	12.0	9.0			
	160.4	179	2.0	8.79	6.0	10.0	12.0	8.0			

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	mm
3.00	40.4	708	0.8	34.86	6.0	16.0	9.0	16.0	PKD G 1390 - 100L/4B	60	142-143
	46.3	618	1.0	30.44	7.0	16.0	9.0	16.0			
	53.6	534	1.1	26.30	8.0	16.0	9.0	16.0			
	60.9	471	1.1	23.16	8.0	16.0	9.0	16.0			
	68.8	417	1.4	20.51	9.0	16.0	9.0	16.0			
	80.6	355	1.5	17.49	9.0	15.0	9.0	15.0			
	92.3	310	1.7	15.27	9.0	15.0	9.0	15.0			
	112.9	254	1.8	12.49	9.0	15.0	9.0	15.0			
	57.4	499	0.8	24.55	3.0	16.0	8.0	16.0	PKD 1390 - 100L/4B	59	134-135
	67.4	425	0.9	20.93	5.0	16.0	8.0	16.0			
	80.6	355	1.1	17.49	6.0	15.0	9.0	15.0			
	92.3	310	1.2	15.27	6.0	15.0	9.0	15.0			
	114.9	249	0.9	12.27	7.0	14.0	9.0	14.0			
	129.8	221	0.9	10.86	7.0	14.0	9.0	14.0			
	152.2	188	1.0	9.26	7.0	14.0	9.0	14.0			
	174.3	164	1.1	8.09	7.0	13.0	9.0	13.0			
	38.5	744	0.9	36.59	3.2	12.0	-	-	PKD H 5290 - 100L/4B	67	130-131
	44.0	651	1.0	32.02	4.8	12.0	-	-			
	49.5	578	1.0	28.46	5.8	12.0	-	-			
	55.6	516	1.3	25.37	6.3	12.0	-	-			
	63.5	451	1.4	22.20	6.9	12.0	-	-			
	71.5	401	1.5	19.73	7.2	12.0	-	-			
	79.0	362	1.6	17.84	7.4	12.0	-	-			
	90.3	317	1.5	15.61	7.5	12.0	-	-			
	101.6	282	1.7	13.88	7.4	12.0	-	-			
	113.7	252	1.8	12.40	7.2	12.0	-	-			
	129.9	220	1.8	10.85	7.0	11.6	-	-			
	146.3	196	1.9	9.64	6.8	11.2	-	-			
	164.6	174	1.9	8.56	6.6	10.7	-	-			
	185.8	154	2.0	7.59	6.5	10.3	-	-			
	60.6	473	0.8	23.26	2.1	12.0	-	-	PKD F 4290 - 100L/4B	60	126-127
	69.3	413	0.8	20.35	3.5	12.0	-	-			
	77.9	368	0.9	18.09	4.2	12.0	-	-			
	87.7	327	1.1	16.08	4.7	12.0	-	-			
	100.2	286	1.2	14.07	5.1	12.0	-	-			
	111.6	257	1.3	12.63	5.3	11.7	-	-			
	128.4	223	1.5	10.98	5.5	11.2	-	-			
	144.4	198	1.6	9.76	5.7	10.8	-	-			
	162.6	176	1.8	8.67	5.8	10.4	-	-			
	182.9	157	2.0	7.71	5.9	10.0	-	-			
	207.4	138	2.0	6.80	6.0	9.6	-	-			
	238.2	120	2.1	5.92	6.0	9.2	-	-			
	124.0	231	0.8	11.37	3.3	8.2	-	-	PKD C 1290 - 100L/4B	43	122-123
	130.4	220	0.8	10.81	3.4	8.1	-	-			
	148.9	192	0.9	9.47	3.8	7.9	-	-			
	170.2	168	1.0	8.29	4.0	7.7	-	-			
	193.3	148	1.1	7.29	4.2	7.4	-	-			
	217.5	132	1.2	6.48	4.3	7.2	-	-			
	236.0	121	1.3	5.97	4.4	7.0	-	-			
	265.5	108	1.3	5.31	4.3	6.8	-	-			
4.00	1.1	35791	1.4	1353.86	220.0	100.0	-	-	PKD G 9390/62 - 112M/4B	1909	210
	1.2	30804	1.6	1165.22	220.0	100.0	-	-			
	1.5	25889	1.9	979.31	220.0	100.0	-	-			
	1.8	21587	2.3	816.57	220.0	100.0	-	-			
	2.1	18579	2.7	702.80	220.0	100.0	-	-			
	1.0	38056	0.8	1424.59	102.0	70.0	160.0	70.0	PKD 9390/52 - 112M/4B	1514	208
	1.3	29901	1.1	1119.32	128.0	70.0	160.0	70.0			
	1.7	22599	1.4	846.00	142.0	70.0	160.0	70.0			
	2.0	18874	1.7	706.54	147.0	70.0	160.0	70.0			
	2.3	16289	2.0	609.75	150.0	70.0	160.0	70.0			
	3.2	11867	2.7	444.25	154.0	70.0	160.0	70.0			
	3.7	10318	3.0	386.23	155.0	70.0	160.0	70.0			
	1.6	24304	0.8	909.80	83.0	65.0	120.0	65.0	PKD G 8390/52 -112M/4B	938	208
	2.0	19096	1.0	714.84	99.0	65.0	120.0	65.0			
	2.3	16660	1.2	623.65	106.0	65.0	120.0	65.0			
	3.3	11619	1.7	434.96	115.0	65.0	120.0	65.0			
	3.8	10137	2.0	379.47	117.0	65.0	120.0	65.0			
	5.3	7262	2.8	271.85	120.0	65.0	120.0	65.0			

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	mm
4.00	2.4	16106	0.8	602.92	76.0	60.0	95.0	60.0	PKD 8390/42 - 112M/4B	669	208
	3.2	11870	1.1	444.35	86.0	60.0	95.0	60.0			
	3.8	10151	1.3	379.99	89.0	60.0	95.0	60.0			
	5.0	7640	1.7	286.02	93.0	60.0	95.0	60.0			
	5.8	6584	2.0	246.45	94.0	60.0	95.0	60.0	PKD 8390/52 - 112M/4B	694	208
	7.8	4870	2.7	182.32	95.0	60.0	95.0	60.0			
	9.8	3910	3.3	146.35	95.0	60.0	95.0	60.0			
	11.6	3303	3.3	123.64	95.0	60.0	95.0	60.0			
	3.7	10278	0.8	384.74	44.0	50.0	66.0	50.0	PKD 7390/32 - 112M/4B	392	206
	4.6	8284	1.0	310.09	53.0	50.0	66.0	50.0			
	5.3	7197	1.2	269.43	56.0	50.0	66.0	50.0	PKD 7390/42 - 112M/4B	409	206
	7.3	5244	1.4	196.30	61.0	50.0	66.0	48.0			
	9.1	4195	1.5	157.05	63.0	50.0	66.0	46.0			
	5.8	6559	1.3	245.55	58.0	50.0	66.0	50.0	PKD 7390 - 112M/4B	363	186-187
	6.9	5529	1.5	206.98	60.0	50.0	66.0	50.0			
	10.5	3650	1.8	136.65	64.0	50.0	66.0	47.0			
	13.0	2941	2.7	110.10	64.0	50.0	66.0	46.0			
	15.6	2443	2.9	91.45	65.0	50.0	66.0	44.0			
	3.9	9855	0.8	368.93	47.0	50.0	66.0	50.0	PKD 6390/32 - 112M/4B	392	206
	4.8	7943	1.0	297.35	54.0	50.0	66.0	50.0			
	5.5	6902	1.2	258.36	57.0	50.0	66.0	50.0	PKD 6390/42 - 112M/4B	409	206
	7.6	5028	1.4	188.23	61.0	50.0	66.0	50.0			
	9.5	4023	1.5	150.60	63.0	50.0	66.0	50.0			
	6.1	6290	1.3	235.45	58.0	50.0	66.0	50.0	PKD 6390 - 112M/4B	363	182-183
	7.2	5295	1.5	198.23	61.0	50.0	66.0	50.0			
	11.1	3456	1.9	129.36	63.0	50.0	66.0	50.0			
	13.5	2820	2.7	105.58	64.0	50.0	66.0	50.0			
	6.2	6117	0.8	228.99	18.0	45.0	38.0	39.0	PKD 5490 - 112M/4B	236	178-179
	7.2	5299	0.9	198.37	25.0	45.0	38.0	39.0	PKD 5390 - 112M/4B	218	174-175
	8.4	4526	1.1	169.43	29.0	45.0	38.0	38.0			
	9.8	3881	0.9	145.30	32.0	45.0	38.0	37.0			
	11.9	3206	1.5	120.01	34.0	45.0	38.0	36.0			
	14.0	2738	1.8	102.50	36.0	45.0	38.0	35.0			
	16.2	2354	2.0	88.12	36.0	45.0	38.0	34.0			
	19.8	1928	2.5	72.18	37.0	45.0	38.0	33.0			
	22.9	1668	2.9	62.45	38.0	45.0	38.0	32.0			
	26.2	1457	3.0	54.55	38.0	45.0	38.0	31.0			
	10.8	3549	0.8	132.86	17.0	40.0	28.0	17.0	PKD 4390 - 112M/4B	143	166-167
	12.1	3147	0.8	117.81	19.0	40.0	28.0	18.0			
	15.0	2553	1.1	95.57	23.0	40.0	28.0	18.0			
	16.5	2311	1.2	86.50	24.0	40.0	28.0	18.0			
	18.8	2032	1.4	76.08	25.0	40.0	28.0	18.0			
	20.9	1830	1.5	68.52	26.0	40.0	28.0	18.0			
	22.6	1689	1.7	63.21	26.0	40.0	28.0	18.0			
	25.7	1487	1.9	55.67	27.0	40.0	28.0	18.0			
	30.0	1272	2.2	47.61	27.0	40.0	28.0	17.0			
	35.3	1084	2.6	40.56	27.0	40.0	28.0	17.0			
	41.6	918	2.4	34.38	28.0	40.0	28.0	17.0			
	51.2	746	2.6	27.93	28.0	40.0	28.0	16.0			
	18.8	2028	0.8	75.92	1.0	10.0	12.0	8.0	PKD 3390 - 112M/4B	96	158-159
	22.3	1712	0.9	64.11	6.0	11.0	15.0	9.0			
	24.2	1580	1.0	59.15	7.0	12.0	15.0	9.0			
	28.6	1334	1.2	49.94	7.0	12.0	15.0	9.0			
	30.0	1274	1.2	47.67	7.0	12.0	15.0	9.0			
	35.4	1078	1.4	40.37	8.0	13.0	15.0	9.0			
	37.5	1018	1.5	38.09	8.0	13.0	15.0	9.0			
	40.1	952	1.6	35.65	8.0	13.0	15.0	9.0			
	48.2	793	1.9	29.67	8.0	13.0	15.0	9.0			
	57.1	669	2.1	25.06	8.0	12.0	15.0	9.0			
	59.8	639	2.3	23.92	8.0	12.0	15.0	9.0			
	70.6	541	2.5	20.25	8.0	12.0	15.0	9.0			
	83.6	457	2.5	17.10	7.0	12.0	15.0	9.0			
	90.9	420	2.6	15.73	7.0	11.0	15.0	9.0			
	105.6	362	2.6	13.54	7.0	11.0	15.0	8.0			
	112.8	339	2.4	12.68	7.0	10.0	15.0	8.0			
	133.2	287	2.5	10.74	7.0	10.0	15.0	8.0			

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	mm
4.00	36.0	1061	0.8	39.70	0.3	11.0	6.0	9.0			
	43.0	889	0.8	33.28	0.4	11.0	8.0	9.0			
	45.5	840	1.0	31.43	3.0	11.0	9.0	9.0			
	48.9	781	1.1	29.22	4.0	12.0	10.0	9.0			
	54.7	698	1.2	26.14	6.0	12.0	11.0	9.0			
	58.2	657	1.3	24.58	6.0	11.0	11.0	9.0			
	63.6	600	1.3	22.48	7.0	12.0	11.0	9.0			
	71.8	532	1.4	19.92	7.0	11.0	12.0	9.0	**PKD 2390 - 112M/4B**	74	150-151
	81.6	468	1.5	17.52	7.0	11.0	12.0	8.0			
	87.8	435	1.4	16.29	7.0	11.0	12.0	8.0			
	98.1	389	1.5	14.58	6.0	11.0	12.0	8.0			
	114.1	335	1.6	12.53	6.0	10.0	12.0	8.0			
	128.8	297	1.8	11.11	6.0	10.0	12.0	8.0			
	162.6	235	2.0	8.79	6.0	9.0	12.0	8.0			
	54.4	702	0.9	26.30	6.0	14.0	9.0	14.0			
	61.7	619	0.8	23.16	7.0	14.0	9.0	14.0			
	69.7	548	1.1	20.51	8.0	14.0	9.0	14.0	**PKD G 1390 - 112M/4B**	67	142-143
	81.8	467	1.2	17.49	9.0	14.0	9.0	14.0			
	93.6	408	1.3	15.27	9.0	14.0	9.0	14.0			
	114.5	334	1.6	12.49	9.0	14.0	9.0	14.0			
	81.8	467	0.8	17.49	4.0	14.0	8.0	14.0			
	93.6	408	0.9	15.27	5.0	14.0	9.0	14.0	**PKD 1390 - 112M/4B**	66	134-135
	154.4	247	0.8	9.26	7.0	13.0	9.0	13.0			
	176.8	216	0.8	8.09	7.0	13.0	9.0	13.0			
	50.2	760	0.8	28.46	2.8	12.0	-	-			
	56.4	678	1.0	25.37	4.5	12.0	-	-			
	64.4	593	1.0	22.20	5.6	12.0	-	-			
	72.5	527	1.1	19.73	6.2	12.0	-	-			
	80.2	477	1.2	17.84	6.7	12.0	-	-			
	91.6	417	1.4	15.61	6.9	11.9	-	-			
	103.1	371	1.4	13.88	6.9	11.6	-	-	**PKD H 5290 - 112M/4B**	75	130-131
	115.3	331	1.6	12.40	6.8	11.3	-	-			
	131.8	290	1.8	10.85	6.6	10.9	-	-			
	148.4	257	1.9	9.64	6.4	10.5	-	-			
	167.0	229	2.0	8.56	6.3	10.2	-	-			
	188.4	203	2.1	7.59	6.1	9.8	-	-			
	222.6	172	2.3	6.42	5.9	9.3	-	-			
	88.9	429	0.9	16.08	3.3	11.4	-	-			
	101.7	376	0.9	14.07	4.2	11.0	-	-			
	113.2	337	1.0	12.63	4.6	10.7	-	-			
	130.2	293	1.1	10.98	5.0	10.4	-	-			
	146.5	261	1.2	9.76	5.3	10.0	-	-	**PKD F 4290 - 112M/4B**	68	126-127
	164.9	232	1.4	8.67	5.5	9.8	-	-			
	185.5	206	1.5	7.71	5.7	9.4	-	-			
	210.3	182	1.6	6.80	5.8	9.1	-	-			
	241.6	158	1.8	5.92	5.7	8.7	-	-			
5.50	1.1	49212	1.0	1353.86	220.0	100.0	-	-			
	1.2	42355	1.2	1165.22	220.0	100.0	-	-			
	1.5	35597	1.4	979.31	220.0	100.0	-	-			
	1.8	29682	1.7	816.57	220.0	100.0	-	-			
	2.1	25546	2.0	702.80	220.0	100.0	-	-	**PKD G 9390/62 - 132S/4C**	1925	210
	2.4	22087	2.3	607.63	220.0	100.0	-	-			
	2.7	19568	2.6	538.33	220.0	100.0	-	-			
	3.0	17238	2.9	474.22	220.0	100.0	-	-			
	1.3	40687	0.8	1119.32	93.0	70.0	160.0	70.0			
	1.7	30752	1.0	846.00	124.0	70.0	160.0	70.0			
	2.0	25682	1.2	706.54	135.0	70.0	160.0	70.0			
	2.4	22164	1.4	609.75	143.0	70.0	160.0	70.0	**PKD 9390/52 - 132S/4C**	1531	208
	3.3	16148	2.0	444.25	150.0	70.0	160.0	70.0			
	3.7	14039	2.3	386.23	152.0	70.0	160.0	70.0			
	5.1	10229	3.1	281.40	155.0	70.0	160.0	70.0			

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	mm
5.50	2.0	25984	0.8	714.84	72.0	65.0	120.0	65.0	PKD G 8390/52 -132S/4C	953	208
	2.3	22669	0.9	623.65	87.0	65.0	120.0	65.0			
	3.3	15810	1.3	434.96	107.0	65.0	120.0	65.0			
	3.8	13794	1.4	379.47	111.0	65.0	120.0	65.0			
	5.3	9882	2.0	271.85	117.0	65.0	120.0	65.0			
	6.1	8591	2.3	236.35	118.0	65.0	120.0	65.0			
	6.3	8385	2.4	230.68	119.0	65.0	120.0	65.0	PKD G 8390 - 132S/4C	888	194-195
	7.4	7053	2.8	194.04	120.0	65.0	120.0	65.0			
	3.3	16152	0.8	444.35	76.0	60.0	95.0	60.0	PKD 8390/42 - 132S/4C	686	208
	3.8	13813	0.9	379.99	81.0	60.0	95.0	60.0			
	4.9	10784	1.2	296.68	88.0	60.0	95.0	60.0	PKD 8390 - 132S/4C	638	190-191
	5.9	8878	1.5	244.25	91.0	60.0	95.0	60.0			
	9.7	5410	2.4	148.84	95.0	60.0	95.0	60.0			
	12.4	4237	3.1	116.55	95.0	60.0	95.0	60.0			
	4.7	11272	0.8	310.09	37.0	50.0	66.0	48.0	PKD 7390/32 - 132S/4C	408	206
	5.4	9794	0.9	269.43	46.0	50.0	66.0	45.0	PKD 7390/42 - 132S/4C	426	206
	7.4	7135	1.0	196.30	56.0	50.0	66.0	44.0			
	9.2	5709	1.1	157.05	60.0	50.0	66.0	43.0			
	5.9	8925	1.0	245.55	50.0	50.0	66.0	48.0	PKD 7390 - 132S/4C	378	186-187
	7.0	7523	1.1	206.98	55.0	50.0	66.0	47.0			
	7.7	6789	1.3	186.78	57.0	50.0	66.0	47.0			
	9.2	5723	1.5	157.44	60.0	50.0	66.0	46.0			
	10.6	4967	1.3	136.65	61.0	50.0	66.0	44.0			
	13.1	4002	2.1	110.10	63.0	50.0	66.0	43.0			
	15.8	3324	2.6	91.45	64.0	50.0	66.0	42.0			
	18.2	2894	2.9	79.61	64.0	50.0	66.0	41.0			
	20.6	2547	3.3	70.08	65.0	50.0	66.0	40.0			
	4.9	10808	0.8	297.35	42.0	50.0	66.0	50.0	PKD 6390/32 - 132S/4C	408	206
	5.6	9391	0.9	258.36	48.0	50.0	66.0	50.0	PKD 6390/42 - 132S/4C	426	206
	6.1	8559	1.0	235.45	52.0	50.0	66.0	50.0	PKD 6390 - 132S/4C	378	182-183
	7.3	7206	1.1	198.23	56.0	50.0	66.0	50.0			
	8.1	6510	1.3	179.11	58.0	50.0	66.0	50.0			
	9.6	5481	1.5	150.79	60.0	50.0	66.0	50.0			
	11.2	4702	1.4	129.36	61.0	50.0	66.0	50.0			
	13.7	3838	2.1	105.58	63.0	50.0	66.0	48.0			
	16.5	3188	2.6	87.70	64.0	50.0	66.0	46.0			
	18.9	2775	3.0	76.33	64.0	50.0	66.0	45.0			
	21.5	2443	3.4	67.20	64.0	50.0	66.0	44.0			
	8.5	6159	0.8	169.43	16.0	45.0	38.0	34.0	PKD 5390 - 132S/4C	235	174-175
	12.0	4362	1.1	120.01	30.0	45.0	38.0	33.0			
	14.1	3726	1.3	102.50	32.0	45.0	38.0	33.0			
	16.4	3203	1.5	88.12	34.0	45.0	38.0	32.0			
	20.0	2624	1.8	72.18	36.0	45.0	38.0	31.0			
	23.1	2270	2.1	62.45	37.0	45.0	38.0	31.0			
	26.5	1983	2.4	54.55	37.0	45.0	38.0	30.0			
	32.1	1636	2.9	45.00	38.0	45.0	38.0	29.0			
	36.4	1445	3.3	39.74	38.0	45.0	38.0	28.0			
	39.9	1316	2.9	36.21	38.0	45.0	38.0	27.0			
	15.1	3474	0.8	95.57	17.0	40.0	28.0	15.0	PKD 4390 - 132S/4C	160	166-167
	16.7	3144	0.9	86.50	20.0	40.0	28.0	15.0			
	19.0	2766	1.0	76.08	22.0	40.0	28.0	15.0			
	21.1	2491	1.1	68.52	23.0	40.0	28.0	16.0			
	22.9	2298	1.1	63.21	24.0	40.0	28.0	16.0			
	26.0	2024	1.4	55.67	25.0	40.0	28.0	16.0			
	30.4	1731	1.6	47.61	26.0	40.0	28.0	16.0			
	35.6	1474	1.9	40.56	27.0	40.0	28.0	16.0			
	42.0	1250	2.2	34.38	27.0	40.0	28.0	16.0			
	51.7	1015	2.8	27.93	28.0	39.0	28.0	15.0			
	60.5	868	2.9	23.88	28.0	38.0	28.0	15.0			
	71.0	740	3.1	20.35	27.0	37.0	28.0	15.0			

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	mm
5.50	28.9	1815	0.9	49.94	1.0	7.0	14.0	7.0	PKD 3390 - 132S/4C	112	158-159
	30.3	1733	0.9	47.67	4.0	8.0	15.0	7.0			
	35.8	1467	1.1	40.37	6.0	9.0	15.0	8.0			
	37.9	1385	0.9	38.09	6.0	9.0	15.0	8.0			
	40.5	1296	0.9	35.65	6.0	9.0	15.0	8.0			
	48.7	1079	1.4	29.67	6.0	10.0	15.0	8.0			
	57.7	911	1.6	25.06	7.0	10.0	15.0	8.0			
	60.4	869	1.8	23.92	7.0	10.0	15.0	8.0			
	71.4	736	2.0	20.25	7.0	10.0	15.0	8.0			
	84.5	622	2.3	17.10	7.0	10.0	15.0	8.0			
	91.9	572	2.4	15.73	7.0	10.0	15.0	8.0			
	106.7	492	2.7	13.54	7.0	10.0	15.0	8.0			
	114.0	461	2.2	12.68	6.0	9.0	15.0	8.0			
	134.6	390	2.3	10.74	6.0	9.0	15.0	7.0			
	169.9	309	2.8	8.50	6.0	9.0	15.0	7.0			
	65.1	807	0.8	22.20	-	10.7	-	-	PKD H 5290 - 132S/4C	91	130-131
	73.2	717	0.8	19.73	3.6	10.8	-	-			
	81.0	648	0.8	17.84	4.8	10.6	-	-			
	92.6	567	0.8	15.61	5.8	10.5	-	-			
	104.1	504	1.1	13.88	6.1	10.3	-	-			
	116.5	451	1.1	12.40	6.1	10.2	-	-			
	133.2	394	1.3	10.85	6.0	9.9	-	-			
	150.0	350	1.4	9.64	5.9	9.7	-	-			
	168.7	311	1.6	8.56	5.8	9.4	-	-			
	190.4	276	1.7	7.59	5.7	9.2	-	-			
	225.0	233	1.9	6.42	5.6	8.8	-	-			
	236.4	222	1.9	6.11	5.5	8.6	-	-			
	266.0	197	2.2	5.43	5.4	8.3	-	-			
	301.3	174	2.4	4.80	5.3	8.0	-	-			
	131.6	399	0.8	10.98	3.7	9.2	-	-	PKD F 4290 - 132S/4C	84	126-127
	148.0	355	0.9	9.76	4.4	9.0	-	-			
	166.6	315	1.0	8.67	4.8	8.8	-	-			
	187.5	280	1.1	7.71	5.1	8.6	-	-			
	212.5	247	1.2	6.80	5.4	8.4	-	-			
	244.1	215	1.3	5.92	5.3	8.1	-	-			
	265.1	198	1.3	5.45	5.3	8.0	-	-			
	298.2	176	1.5	4.85	5.2	7.7	-	-			
7.50	1.2	57757	0.9	1165.22	220.0	100.0	-	-	PKD G 9390/62 - 132M/4B	1936	210
	1.5	48542	1.0	979.31	220.0	100.0	-	-			
	1.8	40475	1.2	816.57	220.0	100.0	-	-			
	2.1	34836	1.4	702.80	220.0	100.0	-	-			
	2.4	30119	1.7	607.63	220.0	100.0	-	-			
	2.7	26684	1.9	538.33	220.0	100.0	-	-			
	3.0	23506	2.1	474.22	220.0	100.0	-	-			
	3.4	21364	2.3	431.00	220.0	100.0	-	-			
	3.9	18387	2.7	370.95	220.0	100.0	-	-			
	4.5	15897	2.8	320.72	220.0	100.0	-	-			
	1.7	41789	0.8	846.00	85.0	70.0	160.0	70.0	PKD 9390/52 - 132M/4B	1542	208
	2.1	34901	0.9	706.54	110.0	70.0	160.0	70.0			
	2.4	30120	1.1	609.75	127.0	70.0	160.0	70.0			
	3.3	21944	1.5	444.25	143.0	70.0	160.0	70.0			
	3.8	19079	1.7	386.23	146.0	70.0	160.0	70.0			
	5.2	13900	2.3	281.40	152.0	70.0	160.0	70.0			
	3.3	21485	0.9	434.96	91.0	65.0	120.0	65.0	PKD G 8390/52 -132M/4B	964	208
	3.8	18745	1.1	379.47	100.0	65.0	120.0	65.0			
	5.3	13428	1.5	271.85	112.0	65.0	120.0	65.0			
	6.1	11675	1.7	236.35	115.0	65.0	120.0	65.0			
	8.4	8506	2.4	172.19	119.0	65.0	120.0	65.0			
	10.0	7155	2.5	144.85	120.0	65.0	120.0	65.0			
	6.3	11395	1.8	230.68	115.0	65.0	120.0	65.0	PKD G 8390 - 132M/4B	899	194-195
	7.5	9585	2.1	194.04	117.0	65.0	120.0	65.0			
	4.9	14655	0.9	296.68	79.0	60.0	95.0	60.0	PKD 8390 - 132M/4B	649	190-191
	5.9	12065	1.1	244.25	85.0	60.0	95.0	60.0			
	9.7	7352	1.8	148.84	93.0	60.0	95.0	60.0			
	12.4	5757	2.3	116.55	94.0	60.0	95.0	60.0			
	15.1	4740	2.7	95.96	95.0	60.0	95.0	60.0			
	17.5	4097	2.9	82.95	95.0	60.0	95.0	60.0			

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	mm
7.50	7.4	9696	0.8	196.30	47.0	50.0	66.0	39.0	PKD 7390/42 - 132M/4B	437	206
	9.2	7758	0.8	157.05	54.0	50.0	66.0	39.0			
	10.8	6634	0.9	134.31	58.0	50.0	66.0	39.0			
	7.8	9226	0.9	186.78	49.0	50.0	66.0	42.0	PKD 7390 - 132M/4B	389	186-187
	9.2	7777	1.1	157.44	54.0	50.0	66.0	42.0			
	13.2	5439	1.6	110.10	60.0	50.0	66.0	41.0			
	15.9	4518	1.9	91.45	62.0	50.0	66.0	40.0			
	18.2	3932	2.2	79.61	63.0	50.0	66.0	39.0			
	20.7	3462	2.5	70.08	64.0	50.0	66.0	38.0			
	24.8	2886	2.7	58.44	64.0	50.0	66.0	37.0			
	28.8	2484	2.8	50.29	65.0	50.0	66.0	36.0			
	7.7	9298	0.8	188.23	49.0	50.0	66.0	45.0	PKD 6390/42 - 132M/4B	437	206
	11.3	6362	0.9	128.79	58.0	50.0	66.0	44.0			
	8.1	8847	0.9	179.11	51.0	50.0	66.0	48.0	PKD 6390 - 132M/4B	389	182-183
	9.6	7449	1.1	150.79	55.0	50.0	66.0	47.0			
	13.7	5215	1.6	105.58	61.0	50.0	66.0	45.0			
	16.5	4332	1.9	87.70	62.0	50.0	66.0	44.0			
	19.0	3771	2.2	76.33	63.0	50.0	66.0	43.0			
	21.6	3319	2.5	67.20	63.0	50.0	66.0	42.0			
	25.9	2768	2.7	56.03	64.0	50.0	66.0	41.0			
	30.1	2382	2.8	48.23	64.0	50.0	66.0	39.0			
	12.1	5928	0.8	120.01	19.0	45.0	38.0	30.0	PKD 5390 - 132M/4B	246	174-175
	14.1	5063	0.8	102.50	26.0	45.0	38.0	30.0			
	16.5	4353	1.1	88.12	29.0	45.0	38.0	30.0			
	20.1	3565	1.3	72.18	33.0	45.0	38.0	29.0			
	23.2	3085	1.6	62.45	34.0	45.0	38.0	29.0			
	26.6	2695	1.8	54.55	35.0	45.0	38.0	28.0			
	32.2	2223	2.2	45.00	37.0	45.0	38.0	27.0			
	36.5	1963	2.4	39.74	37.0	45.0	38.0	27.0			
	40.0	1789	2.1	36.21	37.0	45.0	38.0	26.0			
	46.3	1548	2.2	31.33	38.0	45.0	38.0	25.0			
	21.2	3385	0.8	68.52	18.0	38.0	28.0	12.0	PKD 4390 - 132M/4B	171	166-167
	22.9	3122	0.8	63.21	20.0	38.0	28.0	12.0			
	26.0	2750	1.0	55.67	22.0	39.0	28.0	13.0			
	30.5	2352	1.2	47.61	24.0	39.0	28.0	14.0			
	35.7	2004	1.4	40.56	25.0	38.0	28.0	14.0			
	42.2	1698	1.6	34.38	26.0	38.0	28.0	14.0			
	51.9	1380	2.0	27.93	27.0	37.0	28.0	14.0			
	60.7	1180	2.1	23.88	27.0	36.0	28.0	14.0			
	71.3	1005	2.3	20.35	26.0	35.0	28.0	14.0			
	79.5	901	2.4	18.25	26.0	35.0	28.0	13.0			
	92.4	775	2.0	15.69	25.0	33.0	28.0	13.0			
	108.0	663	2.2	13.42	24.0	32.0	28.0	13.0			
	126.8	565	2.3	11.43	23.0	31.0	28.0	12.0			
	141.4	506	2.4	10.25	22.0	30.0	28.0	12.0			
	154.0	465	2.5	9.42	22.0	30.0	28.0	12.0			
	164.1	436	2.5	8.83	22.0	29.0	28.0	12.0			
	35.9	1994	0.8	40.37	1.0	4.0	13.0	5.0	PKD 3390 - 132M/4B	123	158-159
	48.9	1466	1.0	29.67	4.0	6.0	15.0	6.0			
	57.9	1238	1.2	25.06	5.0	7.0	15.0	7.0			
	60.6	1181	1.3	23.92	5.0	7.0	15.0	7.0			
	71.6	1000	1.5	20.25	5.0	8.0	15.0	7.0			
	84.8	845	1.7	17.10	6.0	8.0	15.0	7.0			
	92.2	777	1.8	15.73	6.0	8.0	15.0	7.0			
	107.1	669	2.0	13.54	6.0	8.0	15.0	7.0			
	114.4	626	1.6	12.68	5.0	8.0	15.0	7.0			
	135.1	530	1.7	10.74	5.0	8.0	15.0	7.0			
	170.5	420	2.1	8.50	5.0	8.0	15.0	7.0			
	104.5	685	0.8	13.88	4.2	8.8	-	-	PKD H 5290 - 132M/4B	102	130-131
	116.9	613	0.8	12.40	5.1	8.8	-	-			
	133.6	536	1.0	10.85	5.2	8.7	-	-			
	150.5	476	1.0	9.64	5.2	8.6	-	-			
	169.3	423	1.2	8.56	5.2	8.5	-	-			
	191.0	375	1.3	7.59	5.1	8.3	-	-			
	225.7	317	1.4	6.42	5.1	8.1	-	-			
	237.3	302	1.4	6.11	5.1	7.9	-	-			
	266.9	268	1.6	5.43	5.0	7.8	-	-			
	302.3	237	1.7	4.80	4.9	7.5	-	-			

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	mm
7.50	188.1	381	0.8	7.71	4.0	7.6	-	-	**PKD F 4290 - 132M/4B**	95	126-127
	213.3	336	0.9	6.80	4.6	7.5	-	-			
	244.9	292	1.0	5.92	4.8	7.3	-	-			
	266.0	269	1.0	5.45	4.8	7.3	-	-			
	299.3	239	1.1	4.85	4.7	7.1	-	-			
9.20	1.5	59339	0.8	979.31	220.0	100.0	-	-	**PKD G 9390/62 - 132M/4**	1928	210
	1.8	49479	1.0	816.57	220.0	100.0	-	-			
	2.1	42585	1.2	702.80	220.0	100.0	-	-			
	2.4	36818	1.4	607.63	220.0	100.0	-	-			
	2.7	32619	1.5	538.33	220.0	100.0	-	-			
	3.1	28734	1.7	474.22	220.0	100.0	-	-			
	3.4	26116	1.9	431.00	220.0	100.0	-	-			
	3.9	22477	2.2	370.95	220.0	100.0	-	-			
	4.5	19433	2.6	320.72	220.0	100.0	-	-			
	4.9	18006	2.8	297.17	220.0	100.0	-	-			
	5.4	16366	3.1	270.09	220.0	100.0	-	-			
	6.2	14149	3.5	233.51	220.0	100.0	-	-			
	2.1	42811	0.7	706.54	86.0	70.0	160.0	70.0	**PKD 9390/52 - 132M/4**	1936	208
	2.4	36947	0.9	609.75	108.0	70.0	160.0	70.0			
	3.3	26918	1.2	444.25	134.0	70.0	160.0	70.0			
	3.8	23403	1.4	386.23	141.0	70.0	160.0	70.0			
	5.2	17051	1.9	281.40	149.0	70.0	160.0	70.0			
	6.5	13522	2.4	223.16	153.0	70.0	160.0	70.0			
	7.6	11621	2.8	191.78	154.0	70.0	160.0	70.0			
	3.3	26355	0.8	434.96	70.0	65.0	120.0	65.0	**PKD G 8390/52 -132M/4**	964	208
	3.8	22993	0.9	379.47	86.0	65.0	120.0	65.0			
	5.3	16472	1.2	271.85	106.0	65.0	120.0	65.0			
	6.1	14321	1.4	236.35	110.0	65.0	120.0	65.0			
	8.4	10434	1.9	172.19	116.0	65.0	120.0	65.0			
	10.0	8777	2.1	144.85	118.0	65.0	120.0	65.0			
	6.3	13978	1.4	230.68	111.0	65.0	120.0	65.0	**PKD G 8390 - 132M/4**	899	194-195
	7.5	11758	1.7	194.04	115.0	65.0	120.0	65.0			
	12.4	7066	2.8	116.62	120.0	65.0	120.0	65.0			
	5.1	17331	0.8	286.02	71.0	60.0	95.0	60.0	**PKD 8390/42 - 132M/4**	697	208
	5.9	14800	0.9	244.25	79.0	60.0	95.0	60.0	**PKD 8390 - 132M/4**	649	190-191
	9.7	9019	1.4	148.84	91.0	60.0	95.0	60.0			
	12.4	7062	1.8	116.55	93.0	60.0	95.0	60.0			
	15.1	5814	2.2	95.96	94.0	60.0	95.0	60.0			
	17.5	5026	2.6	82.95	95.0	60.0	95.0	60.0			
	20.3	4336	3.0	71.56	95.0	60.0	95.0	60.0			
	7.8	11318	0.8	186.78	37.0	50.0	66.0	38.0	**PKD 7390 - 132M/4**	389	186-187
	9.2	9540	0.9	157.44	48.0	50.0	66.0	38.0			
	13.2	6671	1.3	110.10	58.0	50.0	66.0	38.0			
	15.9	5541	1.5	91.45	60.0	50.0	66.0	38.0			
	18.2	4824	1.8	79.61	62.0	50.0	66.0	37.0			
	20.7	4246	2.0	70.08	63.0	50.0	66.0	37.0			
	24.8	3541	2.4	58.44	64.0	50.0	66.0	35.0			
	28.8	3047	1.7	50.29	64.0	50.0	66.0	35.0			
	35.3	2487	3.1	41.04	62.0	50.0	66.0	33.0			
	8.1	10853	0.8	179.11	41.0	50.0	66.0	44.0	**PKD 6390 - 132M/4**	389	182-183
	9.6	9137	0.9	150.79	49.0	50.0	66.0	44.0			
	13.7	6397	1.3	105.58	58.0	50.0	66.0	43.0			
	16.5	5314	1.5	87.70	61.0	50.0	66.0	42.0			
	19.0	4625	1.8	76.33	62.0	50.0	66.0	41.0			
	21.6	4072	2.0	67.20	63.0	50.0	66.0	41.0			
	25.9	3395	2.4	56.03	63.0	50.0	66.0	39.0			
	30.1	2922	2.7	48.23	64.0	50.0	66.0	38.0			
	16.5	5340	0.9	88.12	23.0	45.0	38.0	27.0	**PKD 5390 - 132M/4**	246	174-175
	20.1	4373	1.1	72.18	30.0	45.0	38.0	27.0			
	23.2	3784	1.3	62.45	32.0	45.0	38.0	27.0			
	26.6	3305	1.5	54.55	34.0	45.0	38.0	27.0			
	32.2	2727	1.8	45.00	35.0	45.0	38.0	26.0			
	36.5	2408	2.0	39.74	36.0	45.0	38.0	26.0			
	40.0	2194	2.2	36.21	37.0	45.0	38.0	25.0			
	46.3	1898	2.5	31.33	37.0	45.0	38.0	25.0			
	53.0	1658	2.8	27.37	38.0	45.0	38.0	24.0			
	62.0	1416	3.0	23.38	38.0	45.0	38.0	23.0			
	64.2	1368	3.1	22.58	38.0	45.0	38.0	23.0			

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	mm
9.20	26.0	3373	0.8	55.67	18.0	35.0	28.0	11.0	**PKD 4390 - 132M/4**	171	166-167
	30.5	2885	1.0	47.61	21.0	35.0	28.0	12.0			
	35.7	2458	1.1	40.56	23.0	36.0	28.0	12.0			
	42.2	2083	1.3	34.38	25.0	35.0	28.0	13.0			
	51.9	1692	1.7	27.93	26.0	35.0	28.0	13.0			
	60.7	1447	1.9	23.88	26.0	34.0	28.0	13.0			
	71.3	1233	2.1	20.35	26.0	34.0	28.0	13.0			
	79.5	1106	2.2	18.25	25.0	33.0	28.0	13.0			
	92.4	951	2.1	15.69	24.0	32.0	28.0	12.0			
	108.0	813	2.5	13.42	23.0	31.0	28.0	12.0			
	126.8	693	2.2	11.43	22.0	30.0	28.0	12.0			
	141.4	621	2.4	10.25	22.0	30.0	28.0	12.0			
	154.0	571	2.6	9.42	21.0	29.0	28.0	11.0			
	164.1	535	2.6	8.83	21.0	29.0	28.0	11.0			
	48.9	1798	0.8	29.67	2.0	4.0	15.0	5.0	**PKD 3390 - 132M/4**	123	158-159
	57.9	1518	1.0	25.06	3.0	5.0	15.0	5.0			
	60.6	1449	1.1	23.92	4.0	5.0	15.0	6.0			
	71.6	1227	1.2	20.25	4.0	6.0	15.0	6.0			
	84.8	1036	1.4	17.10	5.0	6.0	15.0	6.0			
	92.2	953	1.5	15.73	5.0	7.0	15.0	6.0			
	107.1	821	1.6	13.54	5.0	7.0	15.0	6.0			
	114.4	768	1.3	12.68	5.0	6.0	15.0	6.0			
	135.1	651	1.4	10.74	5.0	6.0	15.0	6.0			
	170.5	515	1.7	8.50	5.0	7.0	15.0	6.0			
	133.6	657	0.8	10.85	4.4	7.7	-	-	**PKD H 5290 - 132M/4**	102	130-131
	150.5	584	0.8	9.64	4.6	7.7	-	-			
	169.3	519	1.0	8.56	4.6	7.7	-	-			
	191.0	460	1.0	7.59	4.7	7.6	-	-			
	225.7	389	1.2	6.42	4.7	7.5	-	-			
	237.3	370	1.1	6.11	4.7	7.4	-	-			
	266.9	329	1.3	5.43	4.6	7.2	-	-			
	302.3	291	1.4	4.80	4.6	7.1	-	-			
	244.9	359	0.8	5.92	4.3	6.7	-	-	**PKD F 4290 - 132M/4**	95	126-127
	266.0	330	0.8	5.45	4.4	6.7	-	-			
	299.3	294	0.9	4.85	4.4	6.5	-	-			
11.0	1.8	58754	0.9	816.57	220.0	100.0	-	-	**PKD G 9390/62 - 160M/4B**	1963	210
	2.1	50568	1.0	702.80	220.0	100.0	-	-			
	2.4	43720	1.1	607.63	220.0	100.0	-	-			
	2.7	38734	1.3	538.33	220.0	100.0	-	-			
	3.1	34121	1.5	474.22	220.0	100.0	-	-			
	3.4	31011	1.6	431.00	220.0	100.0	-	-			
	3.9	26691	1.9	370.95	220.0	100.0	-	-			
	4.6	23076	2.2	320.72	220.0	100.0	-	-			
	4.9	21382	2.3	297.17	220.0	100.0	-	-			
	5.4	19434	2.6	270.09	220.0	100.0	-	-			
	6.3	16802	3.0	233.51	220.0	100.0	-	-			
	7.3	14431	3.3	200.57	220.0	100.0	-	-	**PKD G 9390 - 160M/4B**	1832	202-203
	3.3	32185	1.0	444.25	122.0	70.0	160.0	70.0	**PKD 9390/52 - 160M/4B**	1573	208
	3.8	27982	1.1	386.23	132.0	70.0	160.0	70.0			
	4.9	21575	1.5	297.79	143.0	70.0	160.0	70.0	**PKD 9390 - 160M/4B**	1497	198-199
	5.7	18348	1.7	253.26	148.0	70.0	160.0	70.0			
	7.3	14318	2.2	197.62	152.0	70.0	160.0	70.0			
	9.5	11093	2.9	153.11	155.0	70.0	160.0	70.0			
	5.3	19695	1.0	271.85	98.0	65.0	120.0	65.0	**PKD G 8390/52 -160M/4B**	991	208
	6.1	17123	1.2	236.35	105.0	65.0	120.0	65.0			
	8.4	12475	1.6	172.19	114.0	65.0	120.0	65.0			
	10.0	10494	1.7	144.85	116.0	65.0	120.0	65.0			
	6.3	16713	1.2	230.68	105.0	65.0	120.0	65.0	**PKD G 8390 - 160M/4B**	927	194-195
	7.5	14058	1.4	194.04	111.0	65.0	120.0	65.0			
	9.5	11003	1.8	151.87	116.0	65.0	120.0	65.0			
	11.4	9255	2.2	127.75	117.0	65.0	120.0	65.0			
	12.4	8449	2.4	116.62	119.0	65.0	120.0	65.0			
	16.0	6566	3.0	90.63	120.0	65.0	120.0	65.0			
	8.0	13209	1.0	182.32	83.0	60.0	95.0	60.0	**PKD 8390/52 - 160M/4B**	753	208

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	mm
11.0	9.7	10783	1.2	148.84	88.0	60.0	95.0	60.0			
	11.8	8878	1.5	122.54	91.0	60.0	95.0	60.0			
	12.4	8444	1.5	116.55	92.0	60.0	95.0	60.0			
	15.1	6952	1.9	95.96	93.0	60.0	95.0	60.0	**PKD 8390 - 160M/4B**	677	190-191
	17.5	6009	2.2	82.95	94.0	60.0	95.0	60.0			
	20.3	5184	2.5	71.56	95.0	60.0	95.0	60.0			
	23.2	4523	2.9	62.43	95.0	60.0	95.0	60.0			
	9.2	11406	0.7	157.44	37.0	50.0	66.0	35.0			
	13.2	7977	1.1	110.10	54.0	50.0	66.0	36.0			
	15.9	6626	1.3	91.45	58.0	50.0	66.0	36.0			
	18.2	5767	1.5	79.61	60.0	50.0	66.0	35.0			
	20.7	5077	1.7	70.08	61.0	50.0	66.0	35.0	**PKD 7390 - 160M/4B**	417	186-187
	24.8	4234	2.0	58.44	63.0	50.0	66.0	34.0			
	28.8	3644	3.6	50.29	63.0	50.0	66.0	33.0			
	35.3	2973	2.6	41.04	61.0	50.0	66.0	32.0			
	41.2	2547	2.8	35.16	59.0	50.0	66.0	31.0			
	9.6	10925	0.8	150.79	41.0	50.0	66.0	40.0			
	13.7	7649	1.1	105.58	55.0	50.0	66.0	41.0			
	16.5	6353	1.3	87.70	59.0	50.0	66.0	40.0			
	19.0	5530	1.5	76.33	60.0	50.0	66.0	40.0			
	21.6	4869	1.7	67.20	61.0	50.0	66.0	39.0	**PKD 6390 - 160M/4B**	417	182-183
	25.9	4060	2.0	56.03	63.0	50.0	66.0	38.0			
	30.1	3494	3.6	48.23	63.0	50.0	66.0	37.0			
	36.8	2851	2.6	39.35	61.0	50.0	66.0	36.0			
	43.0	2443	2.8	33.71	59.0	50.0	66.0	35.0			
	16.5	6384	0.8	88.12	16.0	45.0	38.0	25.0			
	20.1	5229	0.9	72.18	25.0	45.0	38.0	25.0			
	23.2	4525	1.1	62.45	29.0	45.0	38.0	25.0			
	26.6	3952	1.2	54.55	32.0	45.0	38.0	25.0			
	32.2	3261	1.5	45.00	34.0	45.0	38.0	25.0			
	36.5	2879	1.7	39.74	35.0	45.0	38.0	25.0			
	40.0	2623	1.8	36.21	36.0	45.0	38.0	24.0			
	46.3	2270	2.1	31.33	37.0	45.0	38.0	24.0			
	53.0	1983	2.3	27.37	37.0	45.0	38.0	23.0	**PKD 5390 - 160M/4B**	277	174-175
	62.0	1693	2.5	23.38	38.0	45.0	38.0	23.0			
	64.2	1636	2.6	22.58	38.0	45.0	38.0	22.0			
	72.7	1445	2.9	19.94	38.0	45.0	38.0	22.0			
	80.8	1301	3.1	17.95	38.0	45.0	38.0	22.0			
	88.6	1186	2.6	16.37	38.0	45.0	38.0	21.0			
	107.4	978	2.8	13.50	36.0	45.0	38.0	20.0			
	121.6	864	3.0	11.92	35.0	44.0	38.0	19.0			
	135.1	778	3.1	10.74	34.0	43.0	38.0	19.0			
	30.5	3449	0.8	47.61	18.0	32.0	28.0	10.0			
	35.7	2939	1.0	40.56	21.0	32.0	28.0	10.0			
	42.2	2490	1.1	34.38	23.0	33.0	28.0	11.0			
	51.9	2023	1.4	27.93	25.0	33.0	28.0	12.0			
	60.7	1730	1.6	23.88	25.0	33.0	28.0	12.0			
	71.3	1474	1.8	20.35	25.0	32.0	28.0	12.0			
	79.5	1322	1.9	18.25	24.0	32.0	28.0	12.0	**PKD 4390 - 160M/4B**	202	166-167
	92.4	1137	1.8	15.69	23.0	31.0	28.0	11.0			
	108.0	972	2.1	13.42	23.0	30.0	28.0	11.0			
	126.8	828	1.8	11.43	22.0	29.0	28.0	11.0			
	141.4	743	2.0	10.25	21.0	29.0	28.0	11.0			
	154.0	682	2.2	9.42	21.0	28.0	28.0	11.0			
	164.1	640	2.2	8.83	21.0	28.0	28.0	11.0			
15.0	2.4	59618	0.8	607.63	220.0	100.0	-	-			
	2.7	52819	0.9	538.33	220.0	100.0	-	-			
	3.1	46529	1.1	474.22	220.0	100.0	-	-			
	3.4	42288	1.2	431.00	220.0	100.0	-	-			
	3.9	36396	1.4	370.95	220.0	100.0	-	-	**PKD G 9390/62 - 160L/4A**	1972	210
	4.6	31468	1.6	320.72	220.0	100.0	-	-			
	4.9	29157	1.7	297.17	220.0	100.0	-	-			
	5.4	26500	1.9	270.09	220.0	100.0	-	-			
	6.3	22911	2.2	233.51	220.0	100.0	-	-			
	7.3	19679	2.4	200.57	220.0	100.0	-	-	**PKD G 9390 - 160L/4A**	1841	202-203
	8.4	17014	2.4	173.41	220.0	100.0	-	-			
	3.8	38157	0.8	386.23	104.0	70.0	160.0	70.0	**PKD 9390/52 - 160L/4A**	1582	208

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	mm
15.0	4.9	29420	1.1	297.79	128.0	70.0	160.0	70.0	PKD 9390 - 160L/4A	1506	198-199
	5.7	25021	1.3	253.26	138.0	70.0	160.0	70.0			
	7.3	19524	1.6	197.62	146.0	70.0	160.0	70.0			
	9.5	15126	2.1	153.11	151.0	70.0	160.0	70.0			
	12.1	11879	2.4	120.24	154.0	70.0	160.0	70.0			
	14.2	10113	2.5	102.37	155.0	70.0	160.0	70.0			
	5.3	26857	0.7	271.85	71.0	65.0	120.0	65.0	PKD G 8390/52 -160L/4A	1000	208
	6.3	22790	0.9	230.68	88.0	65.0	120.0	65.0	PKD G 8390 - 160L/4A	936	194-195
	7.5	19170	1.0	194.04	99.0	65.0	120.0	65.0			
	9.5	15004	1.3	151.87	109.0	65.0	120.0	65.0			
	11.4	12621	1.6	127.75	113.0	65.0	120.0	65.0			
	12.4	11521	1.7	116.62	116.0	65.0	120.0	65.0			
	16.0	8953	2.2	90.63	118.0	65.0	120.0	65.0			
	21.5	6677	2.4	67.58	120.0	65.0	120.0	65.0			
	9.7	14704	0.9	148.84	79.0	60.0	95.0	60.0	PKD 8390 - 160L/4A	686	190-191
	11.8	12106	1.1	122.54	86.0	60.0	95.0	60.0			
	12.4	11515	1.1	116.55	87.0	60.0	95.0	60.0			
	15.1	9480	1.4	95.96	90.0	60.0	95.0	60.0			
	17.5	8194	1.6	82.95	92.0	60.0	95.0	60.0			
	20.3	7070	1.8	71.56	93.0	60.0	95.0	60.0			
	23.2	6168	2.1	62.43	94.0	60.0	95.0	60.0			
	27.2	5275	2.5	53.39	94.0	60.0	95.0	60.0			
	32.4	4419	2.8	44.73	89.0	60.0	95.0	60.0			
	34.8	4111	2.3	41.61	88.0	60.0	95.0	60.0			
	40.4	3547	2.5	35.90	85.0	60.0	95.0	60.0			
	13.2	10877	0.8	110.10	41.0	50.0	66.0	30.0	PKD 7390 - 160L/4A	426	186-187
	15.9	9035	0.9	91.45	50.0	50.0	66.0	31.0			
	18.2	7864	1.1	79.61	54.0	50.0	66.0	31.0			
	20.7	6924	1.2	70.08	57.0	50.0	66.0	31.0			
	24.8	5773	1.5	58.44	60.0	50.0	66.0	31.0			
	28.8	4969	1.7	50.29	60.0	50.0	66.0	31.0			
	35.3	4055	1.9	41.04	58.0	50.0	66.0	30.0			
	41.2	3473	2.0	35.16	56.0	50.0	66.0	30.0			
	49.5	2896	2.2	29.32	54.0	50.0	66.0	29.0			
	57.5	2493	2.3	25.23	52.0	50.0	66.0	28.0			
	13.7	10430	0.8	105.58	44.0	50.0	66.0	36.0	PKD 6390 - 160L/4A	426	182-183
	16.5	8664	0.9	87.70	52.0	50.0	66.0	36.0			
	19.0	7541	1.1	76.33	55.0	50.0	66.0	36.0			
	21.6	6639	1.2	67.20	58.0	50.0	66.0	36.0			
	25.9	5536	1.5	56.03	60.0	50.0	66.0	35.0			
	30.1	4764	1.7	48.23	60.0	50.0	66.0	35.0			
	36.8	3888	1.9	39.35	59.0	50.0	66.0	34.0			
	43.0	3331	2.5	33.71	57.0	50.0	66.0	33.0			
	51.6	2777	3.0	28.11	55.0	50.0	66.0	32.0			
	59.9	2390	3.4	24.19	53.0	50.0	66.0	31.0			
	73.4	1951	4.2	19.74	51.0	50.0	66.0	30.0			
	82.3	1740	4.3	17.62	49.0	50.0	66.0	29.0			
	97.8	1465	4.9	14.83	47.0	50.0	66.0	28.0			
	23.2	6170	0.8	62.45	16.0	45.0	38.0	22.0	PKD 5390 - 160L/4A	286	174-175
	26.6	5389	0.9	54.55	24.0	45.0	38.0	22.0			
	32.2	4446	1.1	45.00	29.0	45.0	38.0	22.0			
	36.5	3926	1.2	39.74	32.0	45.0	38.0	22.0			
	40.0	3577	1.3	36.21	33.0	45.0	38.0	22.0			
	46.3	3095	1.6	31.33	35.0	45.0	38.0	22.0			
	53.0	2704	1.7	27.37	36.0	45.0	38.0	22.0			
	62.0	2309	1.9	23.38	37.0	45.0	38.0	21.0			
	64.2	2231	1.9	22.58	37.0	45.0	38.0	21.0			
	72.7	1970	2.2	19.94	37.0	45.0	38.0	21.0			
	80.8	1774	2.3	17.95	37.0	45.0	38.0	20.0			
	88.6	1617	1.9	16.37	37.0	45.0	38.0	20.0			
	107.4	1334	2.1	13.50	35.0	44.0	38.0	19.0			
	121.6	1178	2.2	11.92	34.0	43.0	38.0	19.0			
	135.1	1061	2.3	10.74	33.0	42.0	38.0	18.0			
	144.0	995	2.3	10.07	33.0	41.0	38.0	18.0			
	153.3	934	2.4	9.46	32.0	41.0	38.0	18.0			
	178.4	803	2.4	8.13	31.0	39.0	38.0	17.0			

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	mm
15.0	42.2	3396	0.8	34.38	18.0	27.0	23.0	8.0			
	51.9	2759	1.0	27.93	22.0	28.0	25.0	9.0			
	60.7	2360	1.1	23.88	23.0	29.0	26.0	9.0			
	71.3	2010	1.3	20.35	23.0	29.0	27.0	10.0			
	79.5	1803	1.4	18.25	23.0	29.0	27.0	10.0			
	92.4	1550	1.3	15.69	22.0	28.0	26.0	10.0	**PKD 4390 - 160L/4A**	211	166-167
	108.0	1326	1.5	13.42	21.0	27.0	26.0	10.0			
	126.8	1130	1.3	11.43	21.0	27.0	26.0	10.0			
	141.4	1013	1.5	10.25	20.0	27.0	26.0	10.0			
	154.0	930	1.6	9.42	20.0	26.0	26.0	10.0			
	164.1	873	1.6	8.83	20.0	26.0	26.0	10.0			
18.5	2.7	65143	0.8	538.33	220.0	100.0	-	-			
	3.1	57385	0.9	474.22	220.0	100.0	-	-			
	3.4	52155	1.0	431.00	220.0	100.0	-	-			
	3.9	44889	1.1	370.95	220.0	100.0	-	-			
	4.6	38810	1.3	320.72	220.0	100.0	-	-	**PKD G 9390/62 - 180M/4B**	2005	210
	4.9	35961	1.4	297.17	220.0	100.0	-	-			
	5.4	32684	1.5	270.09	220.0	100.0	-	-			
	6.3	28257	1.8	233.51	220.0	100.0	-	-			
	7.0	25285	2.0	208.95	220.0	100.0	-	-			
	7.3	24271	2.1	200.57	220.0	100.0	-	-			
	8.4	20984	2.4	173.41	220.0	100.0	-	-	**PKD G 9390 - 180M/4B**	1873	202-203
	9.5	18671	2.7	154.29	220.0	100.0	-	-			
	11.0	16159	3.1	133.53	220.0	100.0	-	-			
	5.2	34287	0.9	281.40	116.0	70.0	160.0	70.0	**PKD 9390/52 - 180M/4B**	1618	208
	6.5	27191	1.2	223.16	134.0	70.0	160.0	70.0			
	7.3	24080	1.3	197.62	139.0	70.0	160.0	70.0			
	9.5	18656	1.7	153.11	147.0	70.0	160.0	70.0			
	12.1	14651	2.2	120.24	152.0	70.0	160.0	70.0	**PKD 9390 - 180M/4B**	1538	198-199
	14.2	12473	2.6	102.37	153.0	70.0	160.0	70.0			
	15.8	11176	2.9	91.73	155.0	70.0	160.0	70.0			
	18.1	9746	3.3	79.99	156.0	70.0	160.0	70.0			
	8.4	20981	1.0	172.19	94.0	65.0	120.0	65.0	**PKD G 8390/52 -180M/4B**	1033	208
	10.0	17649	1.0	144.85	103.0	65.0	120.0	65.0			
	9.5	18505	1.1	151.87	101.0	65.0	120.0	65.0			
	11.4	15566	1.3	127.75	107.0	65.0	120.0	65.0			
	12.4	14209	1.4	116.62	112.0	65.0	120.0	65.0	**PKD G 8390 - 180M/4B**	968	194-195
	16.0	11042	1.8	90.63	116.0	65.0	120.0	65.0			
	21.5	8235	2.4	67.58	119.0	65.0	120.0	65.0			
	24.6	7184	2.8	58.96	120.0	65.0	120.0	65.0			
	11.7	15065	0.8	123.64	79.0	60.0	95.0	60.0	**PKD 8390/52 - 180M/4B**	798	208
	12.4	14201	0.9	116.55	82.0	60.0	95.0	60.0			
	15.1	11692	1.1	95.96	86.0	60.0	95.0	60.0			
	17.5	10106	1.3	82.95	89.0	60.0	95.0	60.0			
	20.3	8719	1.5	71.56	91.0	60.0	95.0	60.0			
	23.2	7607	1.7	62.43	92.0	60.0	95.0	60.0	**PKD 8390 - 180M/4B**	718	190-191
	27.2	6505	2.0	53.39	91.0	60.0	95.0	60.0			
	32.4	5450	2.4	44.73	87.0	60.0	95.0	60.0			
	34.8	5070	2.6	41.61	86.0	60.0	95.0	60.0			
	40.4	4374	3.0	35.90	83.0	60.0	95.0	60.0			
	15.9	11143	0.8	91.45	39.0	50.0	66.0	27.0			
	18.2	9699	0.9	79.61	47.0	50.0	66.0	28.0			
	20.7	8539	1.0	70.08	52.0	50.0	66.0	28.0			
	24.8	7120	1.2	58.44	57.0	50.0	66.0	28.0			
	28.8	6128	1.3	50.29	57.0	50.0	66.0	29.0			
	32.4	5460	1.4	44.81	56.0	50.0	66.0	29.0			
	35.3	5001	1.5	41.04	55.0	50.0	66.0	29.0	**PKD 7390 - 180M/4B**	458	186-187
	41.2	4284	2.0	35.16	54.0	50.0	66.0	28.0			
	49.5	3572	2.4	29.32	53.0	50.0	66.0	28.0			
	57.5	3074	2.8	25.23	51.0	50.0	66.0	27.0			
	64.5	2739	3.1	22.48	50.0	50.0	66.0	26.0			
	70.4	2509	3.4	20.59	49.0	50.0	66.0	26.0			
	78.9	2238	3.5	18.37	48.0	50.0	66.0	26.0			

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	mm
18.5	16.5	10685	0.8	87.70	44.0	50.0	66.0	33.0	PKD 6390 - 180M/4B	458	182-183
	19.0	9301	0.9	76.33	49.0	50.0	66.0	33.0			
	21.6	8188	1.0	67.20	53.0	50.0	66.0	33.0			
	25.9	6827	1.2	56.03	57.0	50.0	66.0	33.0			
	30.1	5876	1.3	48.23	57.0	50.0	66.0	33.0			
	33.7	5236	1.4	42.97	57.0	50.0	66.0	32.0			
	36.8	4795	1.5	39.35	56.0	50.0	66.0	32.0			
	43.0	4108	2.0	33.71	55.0	50.0	66.0	32.0			
	51.6	3425	2.4	28.11	53.0	50.0	66.0	31.0			
	59.9	2948	2.8	24.19	52.0	50.0	66.0	30.0			
	67.3	2627	3.1	21.56	50.0	50.0	66.0	29.0			
	73.4	2406	3.4	19.74	50.0	50.0	66.0	29.0			
	32.2	5484	0.9	45.00	23.0	45.0	38.0	20.0	PKD 5390 - 180M/4B	322	174-175
	36.5	4843	1.0	39.74	28.0	45.0	38.0	20.0			
	40.0	4412	1.1	36.21	30.0	45.0	38.0	20.0			
	46.3	3818	1.3	31.33	32.0	45.0	38.0	20.0			
	53.0	3335	1.4	27.37	34.0	45.0	38.0	20.0			
	62.0	2848	1.5	23.38	35.0	45.0	38.0	20.0			
	64.2	2751	1.6	22.58	36.0	45.0	38.0	20.0			
	72.7	2430	1.8	19.94	36.0	45.0	38.0	20.0			
	80.8	2188	2.0	17.95	37.0	45.0	38.0	20.0			
	88.6	1994	2.2	16.37	35.0	44.0	38.0	19.0			
	107.4	1645	2.6	13.50	34.0	42.0	38.0	18.0			
	121.6	1453	2.7	11.92	33.0	41.0	38.0	18.0			
	135.1	1308	2.2	10.74	33.0	41.0	38.0	18.0			
	144.0	1227	2.3	10.07	32.0	40.0	38.0	17.0			
	153.3	1152	2.3	9.46	32.0	40.0	38.0	17.0			
	178.4	990	2.6	8.13	31.0	38.0	38.0	17.0			
22.0	3.4	62023	0.8	431.00	220.0	100.0	-	-	PKD G 9390/62 - 180L/4B	2013	210
	3.9	53381	0.9	370.95	220.0	100.0	-	-			
	4.6	46153	1.1	320.72	220.0	100.0	-	-			
	4.9	42764	1.2	297.17	220.0	100.0	-	-			
	5.4	38867	1.3	270.09	220.0	100.0	-	-			
	6.3	33603	1.5	233.51	220.0	100.0	-	-			
	7.0	30069	1.7	208.95	220.0	100.0	-	-			
	7.3	28863	1.7	200.57	220.0	100.0	-	-	PKD G 9390 - 180L/4B	1881	202-203
	8.4	24954	2.0	173.41	220.0	100.0	-	-			
	9.5	22203	2.3	154.29	220.0	100.0	-	-			
	11.0	19216	2.6	133.53	220.0	100.0	-	-			
	12.0	17007	2.9	118.18	220.0	100.0	-	-			
	5.2	40634	0.8	281.40	93.0	70.0	160.0	70.0	PKD 9390/52 - 180L/4B	1626	208
	6.5	32224	1.0	223.16	121.0	70.0	160.0	70.0			
	7.4	28537	1.1	197.62	129.0	70.0	160.0	70.0	PKD 9390 - 180L/4B	1546	198-199
	9.5	22109	1.4	153.11	142.0	70.0	160.0	70.0			
	12.1	17363	1.8	120.24	149.0	70.0	160.0	70.0			
	14.2	14782	2.2	102.37	151.0	70.0	160.0	70.0			
	15.9	13245	2.4	91.73	153.0	70.0	160.0	70.0			
	18.2	11550	2.8	79.99	154.0	70.0	160.0	70.0			
	21.1	9968	3.2	69.03	155.0	70.0	160.0	70.0			
	8.4	24865	0.8	172.19	78.0	65.0	120.0	65.0	PKD G 8390/52 -180L/4B	1041	208
	9.6	21930	0.9	151.87	91.0	65.0	120.0	65.0	PKD G 8390 - 180L/4B	976	194-195
	11.4	18447	1.1	127.75	99.0	65.0	120.0	65.0			
	12.5	16840	1.2	116.62	103.0	65.0	120.0	65.0			
	16.1	13086	1.5	90.63	112.0	65.0	120.0	65.0			
	21.5	9759	2.0	67.58	117.0	65.0	120.0	65.0			
	24.7	8514	2.3	58.96	119.0	65.0	120.0	65.0			
	28.9	7281	2.7	50.42	116.0	65.0	120.0	65.0			
	15.2	13856	0.9	95.96	81.0	60.0	95.0	60.0	PKD 8390 - 180L/4B	726	190-191
	17.5	11977	1.1	82.95	85.0	60.0	95.0	60.0			
	20.3	10333	1.3	71.56	88.0	60.0	95.0	60.0			
	23.3	9015	1.4	62.43	90.0	60.0	95.0	60.0			
	27.3	7709	1.7	53.39	89.0	60.0	95.0	60.0			
	32.5	6458	2.0	44.73	86.0	60.0	95.0	60.0			
	35.0	6009	2.2	41.61	84.0	60.0	95.0	60.0			
	40.5	5184	2.5	35.90	82.0	60.0	95.0	60.0			
	46.5	4523	2.9	31.32	80.0	60.0	95.0	60.0			

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	mm
22.0	20.8	10120	0.8	70.08	45.0	50.0	66.0	25.0			
	24.9	8438	1.0	58.44	52.0	50.0	66.0	26.0			
	28.9	7262	1.1	50.29	54.0	50.0	66.0	27.0			
	32.5	6471	1.2	44.81	53.0	50.0	66.0	27.0			
	35.5	5926	1.3	41.04	53.0	50.0	66.0	27.0			
	41.4	5077	1.7	35.16	52.0	50.0	66.0	27.0			
	49.6	4233	2.0	29.32	51.0	50.0	66.0	26.0			
	57.7	3643	2.3	25.23	49.0	50.0	66.0	26.0	**PKD 7390 - 180L/4B**	466	186-187
	64.7	3246	2.6	22.48	48.0	50.0	66.0	26.0			
	70.7	2973	2.9	20.59	48.0	50.0	66.0	25.0			
	79.2	2653	2.9	18.37	47.0	50.0	66.0	25.0			
	88.5	2374	3.2	16.44	46.0	50.0	66.0	24.0			
	94.0	2236	3.1	15.49	45.0	50.0	66.0	24.0			
	103.6	2028	2.6	14.04	44.0	50.0	66.0	23.0			
	21.7	9704	0.8	67.20	48.0	50.0	66.0	30.0			
	26.0	8091	1.0	56.03	53.0	50.0	66.0	30.0			
	30.2	6964	1.1	48.23	54.0	50.0	66.0	31.0			
	33.9	6205	1.2	42.97	54.0	50.0	66.0	31.0			
	37.0	5683	1.3	39.35	53.0	50.0	66.0	30.0			
	43.2	4868	1.7	33.71	53.0	50.0	66.0	30.0			
	51.8	4059	2.0	28.11	51.0	50.0	66.0	29.0			
	60.1	3494	2.3	24.19	50.0	50.0	66.0	29.0			
	67.5	3113	2.6	21.56	49.0	50.0	66.0	28.0			
	73.7	2851	2.9	19.74	48.0	50.0	66.0	28.0	**PKD 6390 - 180L/4B**	466	182-183
	82.6	2544	2.9	17.62	47.0	50.0	66.0	27.0			
	92.3	2276	3.2	15.76	46.0	50.0	66.0	27.0			
	98.1	2142	3.4	14.83	45.0	50.0	66.0	26.0			
	109.5	1919	2.6	13.29	44.0	50.0	66.0	26.0			
	122.8	1710	2.8	11.84	43.0	50.0	66.0	25.0			
	127.5	1648	2.9	11.42	42.0	50.0	66.0	25.0			
	134.1	1566	3.1	10.85	42.0	50.0	66.0	25.0			
	150.3	1398	3.2	9.68	41.0	50.0	66.0	24.0			
	168.0	1251	3.6	8.66	40.0	50.0	66.0	23.0			
	36.6	5739	0.8	39.74	21.0	44.0	38.0	18.0			
	40.2	5229	0.9	36.21	25.0	45.0	38.0	18.0			
	46.4	4524	1.1	31.33	29.0	45.0	38.0	19.0			
	53.2	3952	1.2	27.37	32.0	45.0	38.0	19.0			
	62.2	3375	1.3	23.38	34.0	44.0	38.0	19.0			
	64.4	3260	1.3	22.58	34.0	44.0	38.0	19.0			
	73.0	2879	1.5	19.94	35.0	44.0	38.0	19.0			
	81.0	2592	1.7	17.95	35.0	43.0	38.0	19.0	**PKD 5390 - 180L/4B**	330	174-175
	88.9	2363	1.8	16.37	34.0	42.0	38.0	18.0			
	107.8	1950	2.2	13.50	33.0	41.0	38.0	18.0			
	122.0	1722	2.3	11.92	32.0	40.0	38.0	17.0			
	135.5	1550	1.9	10.74	32.0	39.0	38.0	17.0			
	144.5	1454	1.9	10.07	31.0	39.0	38.0	17.0			
	153.9	1365	1.9	9.46	31.0	39.0	38.0	17.0			
	179.0	1173	2.2	8.13	30.0	38.0	38.0	16.0			
30.0	4.6	62721	0.8	320.72	220.0	100.0	-	-			
	4.9	58116	0.9	297.17	220.0	100.0	-	-			
	5.4	52820	0.9	270.09	220.0	100.0	-	-	**PKD G 9390/62 - 200L/4C**	2079	210
	6.3	45666	1.1	233.51	220.0	100.0	-	-			
	7.0	40863	1.2	208.95	220.0	100.0	-	-			
	7.3	39224	1.3	200.57	220.0	100.0	-	-			
	8.4	33913	1.5	173.41	220.0	100.0	-	-			
	9.5	30173	1.7	154.29	220.0	100.0	-	-			
	11.0	26114	1.9	133.53	220.0	100.0	-	-	**PKD G 9390 - 200L/4C**	1948	202-203
	12.0	23112	2.2	116.18	220.0	100.0	-	-			
	14.0	19983	2.5	102.18	220.0	100.0	-	-			
	16.0	17522	2.9	89.60	220.0	100.0	-	-			
	12.1	23595	1.4	120.24	139.0	70.0	160.0	70.0			
	14.3	20088	1.6	102.37	145.0	70.0	160.0	70.0			
	15.9	18000	1.8	91.73	148.0	70.0	160.0	70.0	**PKD 9390 - 200L/4C**	1612	198-199
	18.3	15696	2.0	79.99	150.0	70.0	160.0	70.0			
	21.2	13546	2.4	69.03	153.0	70.0	160.0	70.0			
	24.9	11520	2.8	58.71	154.0	70.0	160.0	70.0			

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	mm
30.0	16.1	17784	1.1	90.63	102.0	65.0	120.0	65.0	PKD G 8390 - 200L/4C	1042	194-195
	21.6	13262	1.5	67.58	113.0	65.0	120.0	65.0			
	24.8	11571	1.7	58.96	114.0	65.0	120.0	65.0			
	29.0	9895	2.0	50.42	111.0	65.0	120.0	65.0			
	34.6	8289	2.4	42.24	108.0	65.0	120.0	65.0			
	41.1	6972	2.6	35.53	104.0	65.0	120.0	65.0			
	17.6	16277	0.8	82.95	76.0	60.0	95.0	60.0	PKD 8390 - 200L/4C	792	190-191
	20.4	14043	0.9	71.56	80.0	60.0	95.0	60.0			
	23.4	12251	1.1	62.43	84.0	60.0	95.0	60.0			
	27.3	10477	1.2	53.39	83.0	60.0	95.0	60.0			
	32.6	8777	1.5	44.73	81.0	60.0	95.0	60.0			
	35.1	8166	1.6	41.61	80.0	60.0	95.0	60.0			
	40.7	7045	1.8	35.90	78.0	60.0	95.0	60.0			
	46.6	6146	2.1	31.32	76.0	60.0	95.0	60.0			
	54.5	5256	2.5	26.79	74.0	60.0	95.0	60.0			
	65.1	4403	3.0	22.44	71.0	60.0	95.0	59.0			
	84.2	3401	3.2	17.33	67.0	60.0	95.0	56.0			
	99.8	2872	3.3	14.64	65.0	60.0	95.0	53.0			
	118.2	2423	3.0	12.35	61.0	60.0	95.0	51.0			
	29.0	9869	0.8	50.29	46.0	50.0	66.0	22.0	PKD 7390 - 200L/4C	532	186-187
	32.6	8794	0.9	44.81	47.0	50.0	66.0	22.0			
	35.6	8054	1.0	41.04	47.0	50.0	66.0	23.0			
	41.5	6899	1.2	35.16	47.0	50.0	66.0	23.0			
	49.8	5753	1.5	29.32	47.0	50.0	66.0	23.0			
	57.9	4951	1.7	25.23	46.0	50.0	66.0	23.0			
	64.9	4412	1.9	22.48	45.0	50.0	66.0	23.0			
	70.9	4040	2.1	20.59	45.0	50.0	66.0	23.0			
	79.5	3605	2.2	18.37	44.0	50.0	66.0	23.0			
	88.8	3226	2.3	16.44	43.0	50.0	66.0	23.0			
	94.3	3039	2.5	15.49	43.0	50.0	65.0	22.0			
	104.0	2755	1.9	14.04	41.0	50.0	63.0	22.0			
	116.7	2455	2.0	12.51	41.0	50.0	62.0	21.0			
	121.1	2366	2.1	12.06	40.0	50.0	62.0	21.0			
	127.4	2249	2.2	11.46	40.0	50.0	61.0	21.0			
	142.8	2006	2.4	10.22	39.0	50.0	60.0	21.0			
	159.6	1795	2.6	9.15	38.0	50.0	59.0	21.0			
	30.3	9464	0.8	48.23	47.0	50.0	66.0	26.0	PKD 6390 - 200L/4C	532	182-183
	34.0	8432	0.9	42.97	47.0	50.0	66.0	26.0			
	37.1	7723	1.0	39.35	48.0	50.0	66.0	26.0			
	43.3	6616	1.2	33.71	48.0	50.0	66.0	27.0			
	51.9	5516	1.5	28.11	47.0	50.0	66.0	27.0			
	60.3	4748	1.7	24.19	46.0	50.0	66.0	26.0			
	67.7	4230	1.9	21.56	46.0	50.0	66.0	26.0			
	73.9	3874	2.1	19.74	45.0	50.0	66.0	26.0			
	82.9	3457	2.2	17.62	45.0	50.0	66.0	26.0			
	92.6	3093	2.3	15.76	44.0	50.0	66.0	25.0			
	98.4	2910	2.5	14.83	43.0	50.0	66.0	25.0			
	109.8	2608	1.9	13.29	42.0	50.0	66.0	24.0			
	123.3	2324	2.1	11.84	41.0	50.0	66.0	24.0			
	127.9	2240	2.1	11.42	41.0	50.0	66.0	24.0			
	134.6	2129	2.3	10.85	40.0	50.0	66.0	23.0			
	150.9	1899	2.4	9.68	39.0	49.0	66.0	23.0			
	168.6	1699	2.6	8.66	38.0	48.0	66.0	23.0			
37.0	5.4	64923	0.8	270.09	220.0	100.0	-	-	PKD G 9390/62 - 225S/4A	2134	210
	6.3	56130	0.9	233.51	220.0	100.0	-	-			
	7.0	50226	1.0	208.95	220.0	100.0	-	-			
	7.3	48212	1.0	200.57	220.0	100.0	-	-	PKD G 9390 - 225S/4A	2003	202-203
	8.5	41683	1.2	173.41	220.0	100.0	-	-			
	9.5	37087	1.3	154.29	220.0	100.0	-	-			
	11.0	32097	1.6	133.53	220.0	100.0	-	-			
	12.0	28407	1.8	118.18	220.0	100.0	-	-			
	14.0	24561	2.0	102.18	220.0	100.0	-	-			
	16.0	21538	2.3	89.60	220.0	100.0	-	-			
	18.0	19574	2.6	81.43	220.0	100.0	-	-			
	21.0	16925	2.7	70.41	220.0	100.0	-	-			

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	mm
37.0	12.1	29101	1.1	120.24	128.0	70.0	160.0	70.0			
	14.3	24775	1.3	102.37	137.0	70.0	160.0	70.0			
	15.9	22200	1.4	91.73	142.0	70.0	160.0	70.0			
	18.3	19358	1.7	79.99	146.0	70.0	160.0	70.0	**PKD 9390 - 225S/4A**	1677	198-199
	21.2	16706	1.9	69.03	149.0	70.0	160.0	70.0			
	24.9	14208	2.3	58.71	152.0	70.0	160.0	70.0			
	29.3	12040	2.4	49.75	154.0	70.0	160.0	70.0			
	16.1	21933	0.9	90.63	90.0	65.0	120.0	65.0			
	21.6	16357	1.2	67.58	107.0	65.0	120.0	65.0			
	24.8	14270	1.4	58.96	109.0	65.0	120.0	65.0			
	29.0	12204	1.6	50.42	107.0	65.0	120.0	65.0	**PKD G 8390 - 225S/4A**	1097	194-195
	34.6	10223	2.0	42.24	104.0	65.0	120.0	65.0			
	41.1	8599	2.1	35.53	100.0	65.0	120.0	65.0			
	49.4	7159	2.1	29.58	97.0	65.0	120.0	65.0			
	20.4	17319	0.8	71.56	73.0	60.0	95.0	60.0			
	23.4	15110	0.9	62.43	78.0	60.0	95.0	60.0			
	27.3	12921	1.0	53.39	78.0	60.0	95.0	60.0			
	32.6	10824	1.2	44.73	77.0	60.0	95.0	60.0			
	35.1	10071	1.3	41.61	76.0	60.0	95.0	60.0			
	40.7	8689	1.5	35.90	75.0	60.0	95.0	60.0			
	46.6	7580	1.7	31.32	73.0	60.0	95.0	60.0	**PKD 8390 - 225S/4A**	847	190-191
	54.5	6483	2.0	26.79	71.0	60.0	95.0	59.0			
	65.1	5431	2.4	22.44	69.0	60.0	95.0	57.0			
	84.2	4195	2.6	17.33	66.0	60.0	95.0	54.0			
	99.8	3542	2.7	14.64	63.0	60.0	95.0	52.0			
	118.2	2988	2.4	12.35	60.0	60.0	95.0	50.0			
	181.3	1949	2.7	8.05	54.0	60.0	95.0	45.0			
	35.6	9933	0.8	41.04	42.0	50.0	58.0	19.0			
	41.5	8509	1.0	35.16	43.0	50.0	61.0	20.0			
	49.8	7095	1.2	29.32	43.0	50.0	62.0	21.0			
	57.9	6107	1.4	25.23	43.0	50.0	63.0	21.0			
	64.9	5441	1.6	22.48	43.0	50.0	63.0	21.0			
	70.9	4983	1.7	20.59	42.0	50.0	63.0	21.0			
	79.5	4446	1.8	18.37	42.0	50.0	63.0	21.0			
	88.8	3978	1.9	16.44	41.0	50.0	62.0	21.0	**PKD 7390 - 225S/4A**	587	186-187
	94.3	3748	2.0	15.49	41.0	50.0	61.0	21.0			
	104.0	3398	1.5	14.04	40.0	50.0	59.0	20.0			
	116.7	3028	1.7	12.51	39.0	50.0	59.0	20.0			
	121.1	2919	1.7	12.06	39.0	50.0	58.0	20.0			
	127.4	2773	1.8	11.46	38.0	50.0	58.0	20.0			
	142.8	2474	1.9	10.22	38.0	50.0	57.0	20.0			
	159.6	2214	2.1	9.15	37.0	50.0	57.0	19.0			
	37.1	9525	0.8	39.35	42.0	50.0	66.0	23.0			
	43.3	8159	1.0	33.71	43.0	50.0	66.0	24.0			
	51.9	6804	1.2	28.11	43.0	50.0	66.0	24.0			
	60.3	5856	1.4	24.19	43.0	50.0	66.0	24.0			
	67.7	5218	1.6	21.56	43.0	50.0	66.0	24.0			
	73.9	4778	1.7	19.74	43.0	50.0	66.0	24.0			
	82.9	4263	1.8	17.62	42.0	50.0	66.0	24.0			
	92.6	3815	1.9	15.76	42.0	50.0	66.0	24.0	**PKD 6390 - 225S/4A**	587	182-183
	98.4	3589	2.0	14.83	41.0	50.0	66.0	24.0			
	109.8	3217	1.6	13.29	40.0	49.0	66.0	23.0			
	123.3	2867	1.7	11.84	39.0	48.0	66.0	23.0			
	127.9	2763	1.7	11.42	39.0	48.0	66.0	22.0			
	134.6	2625	1.8	10.85	39.0	47.0	66.0	22.0			
	150.9	2342	1.9	9.68	38.0	47.0	66.0	22.0			
	168.6	2096	2.1	8.66	37.0	46.0	65.0	22.0			
45.0	7.0	61086	0.8	208.95	220.0	100.0	-	-	**PKD G 9390/62 - 225M/4A**	2179	210
	9.5	45106	1.1	154.29	220.0	100.0	-	-			
	11.0	39037	1.3	133.53	220.0	100.0	-	-			
	12.0	34550	1.4	118.18	220.0	100.0	-	-			
	14.0	29872	1.7	102.18	220.0	100.0	-	-			
	16.0	26197	1.9	89.60	220.0	100.0	-	-	**PKD G 9390 - 225M/4A**	2048	202-203
	18.0	23806	2.1	81.43	220.0	100.0	-	-			
	21.0	20584	2.4	70.41	220.0	100.0	-	-			
	23.0	19023	2.6	65.07	220.0	100.0	-	-			
	26.0	16447	3.0	56.26	220.0	100.0	-	-			

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	mm
45.0	14.3	30132	1.1	102.37	125.0	70.0	160.0	70.0			
	15.9	27000	1.2	91.73	134.0	70.0	160.0	70.0			
	18.3	23544	1.4	79.99	139.0	70.0	160.0	70.0			
	21.2	20319	1.6	69.03	145.0	70.0	160.0	70.0			
	24.9	17280	1.9	58.71	149.0	70.0	160.0	70.0	**PKD 9390 - 225M/4C**	1712	198-199
	29.3	14643	2.2	49.75	152.0	70.0	160.0	70.0			
	35.8	11999	2.7	40.77	154.0	70.0	160.0	70.0			
	37.3	11520	2.8	39.14	155.0	70.0	160.0	70.0			
	42.8	10045	3.1	34.13	155.0	70.0	160.0	70.0			
	21.6	19894	1.0	67.58	98.0	65.0	120.0	65.0			
	24.8	17356	1.2	58.96	103.0	65.0	120.0	65.0			
	29.0	14842	1.3	50.42	102.0	65.0	120.0	65.0			
	34.6	12433	1.6	42.24	100.0	65.0	120.0	65.0	**PKD G 8390 - 225M/4C**	1142	194-195
	41.1	10459	1.7	35.53	97.0	65.0	120.0	65.0			
	49.4	8707	2.3	29.58	94.0	65.0	120.0	65.0			
	57.7	7446	2.7	25.30	92.0	65.0	120.0	65.0			
	27.3	15715	0.8	53.39	72.0	60.0	95.0	60.0			
	32.6	13165	1.0	44.73	72.0	60.0	95.0	60.0			
	35.1	12249	1.1	41.61	72.0	60.0	95.0	60.0			
	40.7	10567	1.2	35.90	71.0	60.0	95.0	59.0			
	46.6	9219	1.4	31.32	70.0	60.0	95.0	58.0			
	54.5	7884	1.6	26.79	69.0	60.0	95.0	57.0			
	65.1	6605	2.0	22.44	67.0	60.0	95.0	55.0	**PKD 8390 - 225M/4C**	892	190-191
	72.3	5940	2.2	20.18	66.0	60.0	95.0	54.0			
	84.2	5102	2.5	17.33	64.0	60.0	95.0	53.0			
	99.8	4308	3.0	14.64	62.0	60.0	95.0	51.0			
	118.2	3634	2.3	12.35	59.0	60.0	95.0	49.0			
	181.3	2371	3.0	8.05	53.0	60.0	95.0	44.0			
	49.8	8629	1.0	29.32	39.0	50.0	55.0	18.0			
	57.9	7427	1.1	25.23	39.0	50.0	56.0	19.0			
	64.9	6618	1.3	22.48	40.0	50.0	57.0	19.0			
	70.9	6061	1.4	20.59	40.0	50.0	57.0	19.0			
	79.5	5407	1.5	18.37	39.0	50.0	58.0	20.0			
	88.8	4839	1.6	16.44	39.0	50.0	58.0	20.0			
	94.3	4558	1.7	15.49	39.0	50.0	57.0	19.0	**PKD 7390 - 225M/4C**	632	186-187
	104.0	4133	1.3	14.04	37.0	50.0	55.0	19.0			
	116.7	3683	1.4	12.51	37.0	50.0	55.0	19.0			
	121.1	3550	1.4	12.06	37.0	50.0	55.0	19.0			
	127.4	3373	1.5	11.46	37.0	49.0	55.0	19.0			
	142.8	3009	1.6	10.22	36.0	49.0	54.0	19.0			
	159.6	2693	1.8	9.15	36.0	48.0	54.0	18.0			
	51.9	8275	1.0	28.11	39.0	47.0	66.0	21.0			
	60.3	7122	1.2	24.19	40.0	48.0	66.0	22.0			
	67.7	6346	1.3	21.56	40.0	48.0	66.0	22.0			
	73.9	5812	1.4	19.74	40.0	48.0	66.0	22.0			
	82.9	5185	1.4	17.62	40.0	48.0	66.0	22.0			
	92.6	4640	1.6	15.76	40.0	48.0	66.0	22.0			
	98.4	4366	1.6	14.83	39.0	47.0	66.0	22.0	**PKD 6390 - 225M/4C**	632	182-183
	109.8	3913	1.3	13.29	38.0	46.0	66.0	21.0			
	123.3	3486	1.4	11.84	37.0	45.0	65.0	21.0			
	127.9	3360	1.4	11.42	37.0	45.0	65.0	21.0			
	134.6	3193	1.5	10.85	37.0	45.0	65.0	21.0			
	150.9	2849	1.6	9.68	36.0	44.0	64.0	21.0			
	168.6	2549	1.8	8.66	36.0	44.0	63.0	21.0			
55.0	9.6	54757	0.9	154.29	220.0	100.0	-	-			
	11.0	47390	1.1	133.53	220.0	100.0	-	-			
	13.0	41942	1.2	118.18	220.0	100.0	-	-			
	14.0	36264	1.4	102.18	220.0	100.0	-	-			
	17.0	31799	1.6	89.60	220.0	100.0	-	-			
	18.0	28899	1.7	81.43	220.0	100.0	-	-	**PKD G 9390 - 250M/4C**	2200	202-203
	21.0	24988	2.0	70.41	220.0	100.0	-	-			
	23.0	23093	2.2	65.07	220.0	100.0	-	-			
	26.0	19967	2.5	56.26	218.4	100.0	-	-			
	31.0	16961	2.7	47.79	210.9	100.0	-	-			

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	mm
55.0	14.3	36702	0.9	102.37	104.0	70.0	160.0	70.0	**PKD 9390 - 250M/4C**	1865	198-199
	16.0	32887	1.0	91.73	119.0	70.0	160.0	70.0			
	18.3	28677	1.1	79.99	132.0	70.0	160.0	70.0			
	21.2	24749	1.3	69.03	137.0	70.0	160.0	70.0			
	25.0	21048	1.5	58.71	144.0	70.0	160.0	70.0			
	29.4	17836	1.8	49.75	149.0	70.0	160.0	70.0			
	35.9	14616	2.2	40.77	152.0	70.0	160.0	70.0			
	37.4	14032	2.3	39.14	152.0	70.0	160.0	70.0			
	42.9	12236	2.5	34.13	154.0	70.0	160.0	70.0			
	49.9	10522	2.8	29.35	155.0	70.0	160.0	70.0			
	21.7	24231	0.8	67.58	83.0	65.0	120.0	65.0	**PKD G 8390 - 250M/4C**	1295	194-195
	24.8	21140	1.9	58.96	94.0	65.0	120.0	65.0			
	29.1	18079	1.1	50.42	95.0	65.0	120.0	65.0			
	34.7	15145	1.3	42.24	94.0	65.0	120.0	65.0			
	41.2	12739	1.4	35.53	92.0	65.0	120.0	65.0			
	49.5	10606	1.9	29.58	90.0	65.0	120.0	65.0			
	57.9	9070	2.2	25.30	88.0	65.0	120.0	65.0			
	69.1	7598	2.6	21.19	86.0	65.0	120.0	63.0			
	82.2	6391	2.8	17.83	82.0	65.0	120.0	61.0			
	89.5	5869	3.0	16.37	81.0	65.0	120.0	60.0			
	99.3	5289	2.6	14.75	78.0	65.0	120.0	58.0			
	118.6	4430	2.8	12.36	76.0	65.0	120.0	56.0			
	126.0	4169	3.1	11.63	75.0	65.0	120.0	56.0			
	153.5	3422	3.0	9.54	71.0	65.0	120.0	53.0			
	32.8	16035	0.8	44.73	66.0	60.0	95.0	55.0	**PKD 8390 - 250M/4C**	1045	190-191
	35.2	14919	0.9	41.61	66.0	60.0	95.0	55.0			
	40.8	12872	1.0	35.90	66.0	60.0	95.0	55.0			
	46.8	11230	1.2	31.32	66.0	60.0	95.0	55.0			
	54.7	9603	1.4	26.79	65.0	60.0	95.0	54.0			
	65.3	8045	1.6	22.44	64.0	60.0	95.0	53.0			
	72.6	7235	1.8	20.18	63.0	60.0	95.0	52.0			
	84.5	6214	2.1	17.33	61.0	60.0	95.0	51.0			
	100.1	5247	2.5	14.64	60.0	60.0	95.0	49.0			
	118.7	4427	1.9	12.35	57.0	60.0	95.0	47.0			
	181.9	2887	2.5	8.05	52.0	60.0	95.0	43.0			
75.0	11.0	64405	0.8	133.53	220.0	100.0	-	-	**PKD G 9390 - 280M/4A**	2380	202-203
	13.0	57001	0.9	118.18	220.0	100.0	-	-			
	15.0	49284	1.0	102.18	220.0	100.0	-	-			
	17.0	43216	1.2	89.60	220.0	100.0	-	-			
	18.0	39276	1.3	81.43	220.0	100.0	-	-			
	21.0	33960	1.5	70.41	216.8	100.0	-	-			
	23.0	31385	1.6	65.07	214.5	100.0	-	-			
	26.0	27136	1.8	56.26	208.7	100.0	-	-			
	31.0	23050	2.0	47.79	202.7	100.0	-	-			
	36.0	19930	2.0	41.32	196.5	100.0	-	-			
	41.0	17479	2.2	36.24	191.5	100.0	-	-			
	45.0	15883	2.3	32.93	187.5	100.0	-	-			
	18.4	38840	0.8	79.99	104.0	70.0	160.0	70.0	**PKD 9390 - 280M/4A**	2045	198-199
	21.4	33520	1.0	69.03	120.0	70.0	160.0	70.0			
	25.1	28507	1.1	58.71	130.0	70.0	160.0	70.0			
	29.6	24157	1.3	49.75	139.0	70.0	160.0	70.0			
	36.2	19796	1.6	40.77	146.0	70.0	160.0	70.0			
	37.7	19004	1.7	39.14	147.0	70.0	160.0	70.0			
	43.2	16572	1.8	34.13	150.0	70.0	160.0	70.0			
	50.3	14250	2.1	29.35	152.0	70.0	160.0	70.0			
	59.1	12119	2.1	24.96	154.0	70.0	160.0	70.0			
	72.3	9910	2.2	20.41	156.0	70.0	160.0	70.0			
	85.3	8398	2.1	17.29	156.0	70.0	160.0	70.0			
	104.1	6882	2.2	14.17	157.0	70.0	160.0	70.0			
	127.6	5613	2.3	11.56	158.0	70.0	160.0	70.0			

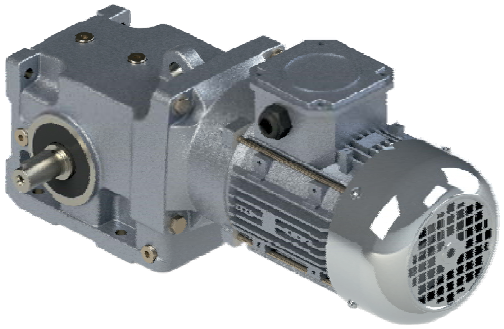
P_1 [kW]	n_2 [Min^{-1}]	M_2 [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	$F_{R\ GR}$ [kN]	$F_{A\ GR}$ [kN]	Tip / Type	Kg	mm
75.0	29.3	24485	0.8	50.42	82.0	65.0	120.0	61.0	**PKD G 8390 - 280M/4A**	1475	194-195
	34.9	20512	1.0	42.24	84.0	65.0	120.0	62.0			
	41.5	17254	1.0	35.53	82.0	65.0	120.0	61.0			
	49.9	14364	1.4	29.58	83.0	65.0	120.0	62.0			
	58.3	12284	1.6	25.30	82.0	65.0	120.0	61.0			
	69.6	10291	1.9	21.19	80.0	65.0	120.0	59.0			
	82.7	8656	2.0	17.83	78.0	65.0	120.0	58.0			
	90.1	7949	2.2	16.37	77.0	65.0	120.0	57.0			
	100.0	7163	1.9	14.75	75.0	65.0	120.0	55.0			
	119.4	6000	2.0	12.36	72.0	65.0	120.0	54.0			
	126.9	5646	2.2	11.63	72.0	65.0	120.0	54.0			
	154.5	4635	2.2	9.54	69.0	65.0	120.0	51.0			
	183.0	3914	2.2	8.06	66.0	65.0	120.0	49.0			
	47.1	15209	0.9	31.32	57.0	60.0	95.0	48.0	**PKD 8390 - 280M/4A**	1225	190-191
	55.1	13007	1.0	26.79	58.0	60.0	95.0	48.0			
	65.7	10896	1.2	22.44	58.0	60.0	95.0	48.0			
	73.1	9800	1.3	20.18	57.0	60.0	95.0	48.0			
	85.1	8416	1.5	17.33	57.0	60.0	95.0	47.0			
	100.8	7107	1.8	14.64	56.0	60.0	95.0	46.0			
	119.5	5996	1.4	12.35	53.0	60.0	95.0	44.0			
	183.1	3911	1.8	8.05	50.0	60.0	95.0	41.0			
90.0	15.0	59141	0.8	102.18	213.2	100.0	-	-	**PKD G 9390 - 280M/4B**	2430	202-203
	17.0	51859	1.0	89.60	212.6	100.0	-	-			
	18.0	47131	1.1	81.43	211.3	100.0	-	-			
	21.0	40752	1.2	70.41	207.5	100.0	-	-			
	23.0	37662	1.3	65.07	206.2	100.0	-	-			
	26.0	32563	1.5	56.26	201.3	100.0	-	-			
	31.0	27660	1.8	47.79	196.8	100.0	-	-			
	36.0	23916	2.1	41.32	191.4	100.0	-	-			
	41.0	20975	2.4	36.24	187.0	100.0	-	-			
	45.0	19059	2.6	32.93	183.3	100.0	-	-			
	52.0	16478	2.6	28.47	178.0	100.0	-	-			
	56.0	15228	2.7	26.31	174.8	100.0	-	-			
	21.4	40088	0.8	69.03	98.0	70.0	160.0	70.0	**PKD 9390 - 280M/4B**	2095	198-199
	25.2	34093	0.9	58.71	115.0	70.0	160.0	70.0			
	29.8	28891	1.1	49.75	130.0	70.0	160.0	70.0			
	36.3	23674	1.4	40.77	140.0	70.0	160.0	70.0			
	37.8	22728	1.4	39.14	141.0	70.0	160.0	70.0			
	43.4	19819	1.6	34.13	145.0	70.0	160.0	70.0			
	50.4	17043	1.9	29.35	149.0	70.0	160.0	70.0			
	59.3	14494	2.2	24.96	152.0	70.0	160.0	70.0			
	72.5	11852	2.5	20.41	154.0	70.0	160.0	70.0			
	85.6	10044	2.1	17.29	155.0	70.0	160.0	70.0			
	104.4	8230	2.4	14.17	157.0	70.0	160.0	70.0			
	35.0	24531	0.8	42.24	75.0	65.0	120.0	56.0	**PKD G 8390 - 280M/4B**	1525	194-195
	41.7	20635	0.9	35.53	76.0	65.0	120.0	56.0			
	50.0	17179	1.2	29.58	77.0	65.0	120.0	57.0			
	58.5	14691	1.4	25.30	77.0	65.0	120.0	57.0			
	69.8	12307	1.6	21.19	76.0	65.0	120.0	56.0			
	83.0	10352	1.8	17.83	74.0	65.0	120.0	55.0			
	90.4	9506	2.0	16.37	74.0	65.0	120.0	55.0			
	100.3	8566	1.8	14.75	71.0	65.0	120.0	53.0			
	119.8	7176	2.0	12.36	70.0	65.0	120.0	52.0			
	127.3	6753	2.5	11.63	70.0	65.0	120.0	52.0			
	155.1	5543	2.3	9.54	67.0	65.0	120.0	50.0			
	183.6	4681	2.6	8.06	65.0	65.0	120.0	48.0			
	55.3	15555	0.8	26.79	52.0	60.0	95.0	44.0	**PKD 8390 - 280M/4B**	1275	190-191
	66.0	13031	1.0	22.44	53.0	60.0	95.0	44.0			
	73.3	11720	1.1	20.18	53.0	60.0	95.0	45.0			
	85.4	10065	1.3	17.33	53.0	60.0	95.0	44.0			
	101.1	8500	1.5	14.64	53.0	60.0	95.0	44.0			
	119.9	7170	1.2	12.35	50.0	60.0	95.0	42.0			
	183.8	4677	1.5	8.05	48.0	60.0	94.0	40.0			

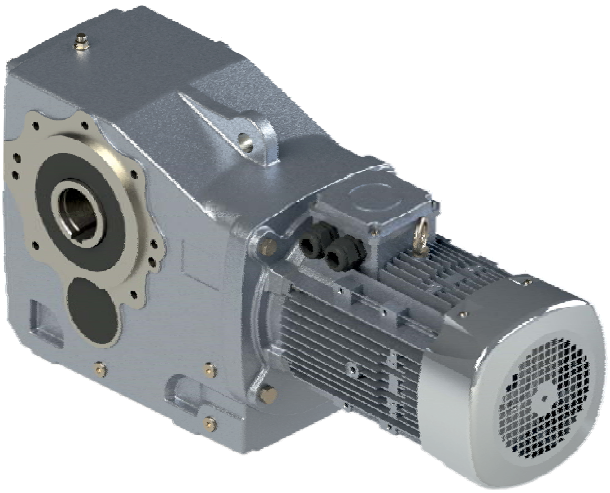
P_1 [kW]	n_2 [Min^{-1}]	M_2 [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	$F_{R\ GR}$ [kN]	$F_{A\ GR}$ [kN]	Tip / Type	Kg	mm
110	17.0	63256	0.8	89.60	196.8	100.0	-	-	PKD G 9390 - 315S/4	2610	202-203
	18.0	57488	0.9	81.43	197.2	100.0	-	-			
	21.0	49708	1.0	70.41	195.2	100.0	-	-			
	23.0	45938	1.1	65.07	194.8	100.0	-	-			
	26.0	39719	1.3	56.26	191.5	100.0	-	-			
	31.0	33719	1.5	47.79	188.4	100.0	-	-			
	36.0	29171	1.7	41.32	184.1	100.0	-	-			
	41.0	25585	2.0	36.24	180.8	100.0	-	-			
	45.0	23248	2.1	32.93	177.7	100.0	-	-			
	52.0	20099	2.1	28.47	172.5	100.0	-	-			
	57.0	18574	2.2	26.31	170.7	100.0	-	-			
	65.0	16061	2.2	22.75	165.2	100.0	-	-			
	25.2	41670	0.8	58.71	85.0	70.0	160.0	70.0	PKD 9390 - 315S/4	2275	198-199
	29.8	35311	0.9	49.75	113.0	70.0	160.0	70.0			
	36.3	28935	1.1	40.77	130.0	70.0	160.0	70.0			
	37.8	27779	1.2	39.14	132.0	70.0	160.0	70.0			
	43.4	24223	1.3	34.13	139.0	70.0	160.0	70.0			
	50.4	20830	1.5	29.35	144.0	70.0	160.0	70.0			
	59.3	17715	1.8	24.96	149.0	70.0	160.0	70.0			
	72.5	14486	2.0	20.41	152.0	70.0	160.0	70.0			
	85.6	12275	1.7	17.29	154.0	70.0	160.0	70.0			
	104.4	10059	2.0	14.17	155.0	70.0	160.0	70.0			
	128.0	8205	2.2	11.56	157.0	70.0	160.0	70.0			
	138.2	7602	2.2	10.71	157.0	70.0	160.0	70.0			
	50.0	20997	1.0	29.58	70.0	65.0	120.0	52.0	PKD G 8390 - 315S/4	1705	194-195
	58.5	17956	1.1	25.30	71.0	65.0	120.0	53.0			
	69.8	15042	1.3	21.19	71.0	65.0	120.0	53.0			
	83.0	12653	1.5	17.83	70.0	65.0	120.0	52.0			
	90.4	11618	1.6	16.37	70.0	65.0	120.0	52.0			
	100.3	10470	1.4	14.75	67.0	65.0	120.0	50.0			
	119.8	8771	1.6	12.36	66.0	65.0	120.0	49.0			
	127.3	8253	2.1	11.63	67.0	65.0	120.0	50.0			
	155.1	6775	1.9	9.54	64.0	65.0	120.0	48.0			
	183.6	5721	2.1	8.06	63.0	65.0	118.0	46.0			
132	21.0	59650	0.8	70.41	180.9	100.0	-	-	PKD G 9390 - 315M/4	2690	202-203
	23.0	55126	0.9	65.07	182.1	100.0	-	-			
	26.0	47662	1.0	56.26	181.2	100.0	-	-			
	31.0	40487	1.2	47.79	179.5	100.0	-	-			
	36.0	35005	1.4	41.32	176.5	100.0	-	-			
	41.0	30702	1.6	36.24	174.4	100.0	-	-			
	45.0	27898	1.8	32.93	171.9	100.0	-	-			
	52.0	24119	2.1	28.47	167.3	100.0	-	-			
	57.0	22289	2.2	26.31	165.3	100.0	-	-			
	65.0	19273	2.4	22.75	160.7	100.0	-	-			
	77.0	16444	2.8	19.41	156.1	100.0	-	-			
	89.0	14216	2.8	16.78	151.2	100.0	-	-			
	29.7	42375	0.8	49.75	85.0	70.0	160.0	70.0	PKD 9390 - 315M/4	2280	198-199
	36.3	34726	0.9	40.77	116.0	70.0	160.0	70.0			
	50.4	24999	1.3	29.35	138.0	70.0	160.0	70.0			
	59.3	21260	1.5	24.96	144.0	70.0	160.0	70.0			
	72.5	17384	1.8	20.41	149.0	70.0	160.0	70.0			
	85.6	14727	1.4	17.29	152.0	70.0	160.0	70.0			
	104.4	12069	1.6	14.17	154.0	70.0	160.0	70.0			
	128.0	9846	1.9	11.56	156.0	70.0	160.0	69.0			
	138.2	9122	2.0	10.71	156.0	69.0	160.0	68.0			
	58.5	21547	0.9	25.30	64.0	65.0	120.0	47.0	PKD G 8390 - 315M/4	1705	194-195
	69.8	18050	1.1	21.19	65.0	65.0	120.0	48.0			
	83.0	15183	1.3	17.83	65.0	65.0	120.0	48.0			
	90.4	13942	1.4	16.37	66.0	65.0	120.0	49.0			
	100.3	12564	1.2	14.75	63.0	65.0	120.0	47.0			
	119.8	10525	1.3	12.36	62.0	65.0	119.0	46.0			
	127.3	9904	1.7	11.63	64.0	65.0	120.0	47.0			
	155.1	8130	1.6	9.54	61.0	65.0	117.0	45.0			
	183.6	6865	1.7	8.06	60.0	65.0	114.0	45.0			

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	mm
160	26.0	57850	0.9	56.26	166.4	100.0	-	-	**PKD G 9390 - 315M/4**	2840	202-203
	31.0	49141	1.0	47.79	168.0	100.0	-	-			
	36.0	42488	1.2	41.32	166.4	100.0	-	-			
	41.0	37264	1.3	36.24	165.2	100.0	-	-			
	45.0	33861	1.5	32.93	163.5	100.0	-	-			
	52.0	29275	1.7	28.47	160.3	100.0	-	-			
	56.0	27054	1.8	26.31	159.2	100.0	-	-			
	65.0	23393	2.0	22.75	155.3	100.0	-	-			
	77.0	19959	2.3	19.41	151.6	100.0	-	-			
	89.0	17254	2.3	16.78	147.2	100.0	-	-			
	36.4	41946	0.8	40.77	89.0	70.0	160.0	70.0	**PKD 9390 - 315M/4**	2505	198-199
	50.6	30196	1.1	29.35	127.0	70.0	160.0	70.0			
	59.5	25681	1.2	24.96	136.0	70.0	160.0	70.0			
	72.8	21000	1.5	20.41	144.0	70.0	160.0	70.0			
	85.9	17795	1.2	17.29	148.0	70.0	160.0	70.0			
	104.8	14582	1.3	14.17	152.0	69.0	160.0	68.0			
	128.5	11894	1.6	11.56	154.0	67.0	160.0	67.0			
	138.7	11020	1.6	10.71	155.0	67.0	160.0	66.0			
	58.7	26030	0.8	25.30	54.0	57.0	107.0	41.0	**PKD G 8390 - 315M/4**	1935	194-195
	70.1	21805	0.9	21.19	57.0	62.0	112.0	43.0			
	83.3	18342	1.0	17.83	58.0	63.0	113.0	43.0			
	90.7	16843	1.1	16.37	60.0	65.0	116.0	44.0			
	100.7	15178	1.0	14.75	57.0	62.0	110.0	42.0			
	120.2	12714	1.1	12.36	58.0	64.0	110.0	43.0			
	127.7	11964	1.4	11.63	60.0	65.0	114.0	44.0			
	155.6	9821	1.3	9.54	58.0	65.0	110.0	43.0			
	184.2	8293	1.4	8.06	57.0	65.0	108.0	42.0			
200	41.0	46580	1.1	36.24	152.4	100.0	-	-	**PKD G 9390 - 315L/4**	2980	202-203
	45.0	42326	1.2	32.93	152.1	100.0	-	-			
	52.0	36593	1.4	28.47	150.3	100.0	-	-			
	56.0	33817	1.5	26.31	150.5	100.0	-	-			
	65.0	29241	1.6	22.75	147.3	100.0	-	-			
	77.0	24948	1.9	19.41	145.3	100.0	-	-			
	89.0	21568	1.9	16.78	141.6	100.0	-	-			

Ölçü Tabloları

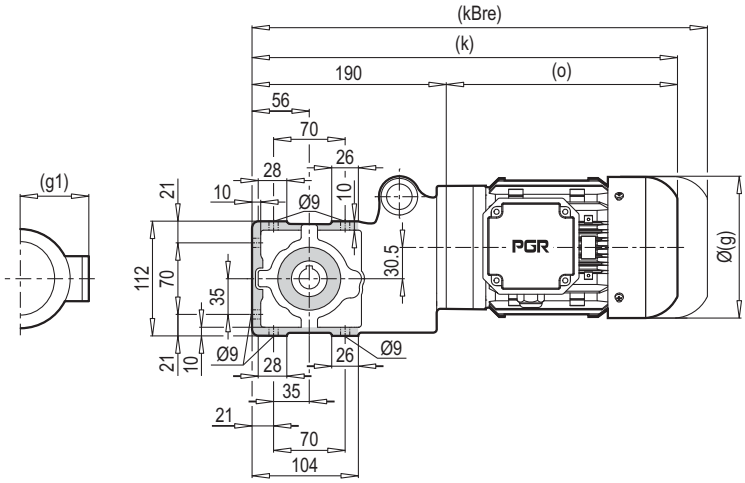
Dimension Tables



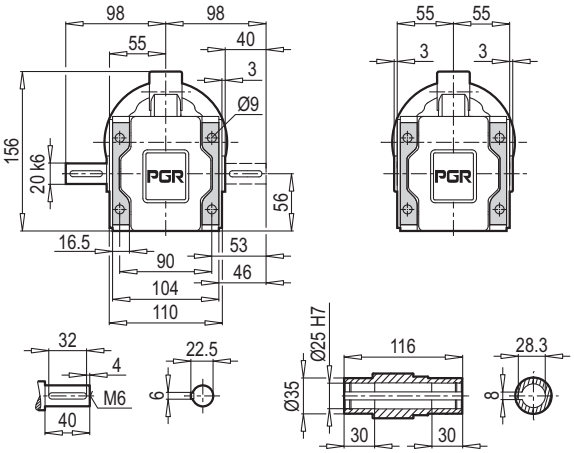


PKD...

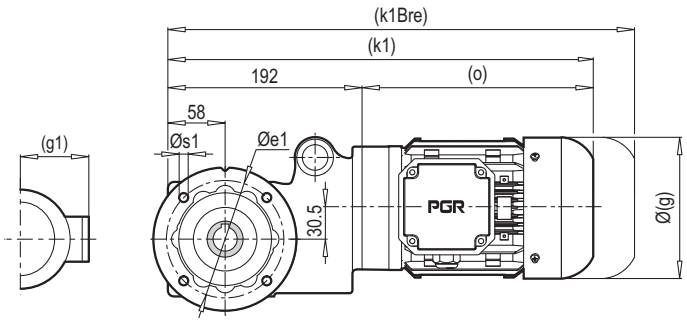
PKD A 0290 TMA



PKD A 0290 DA

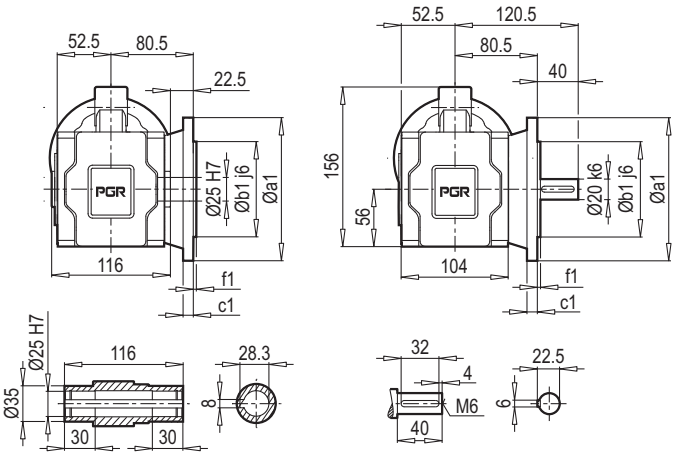


PKD A 0290 DG/B5



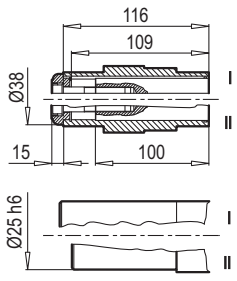
a1	b1	c1	e1	f1	s1
140	95	10	115	3	4x9

PKD A 0290 TMG/B5

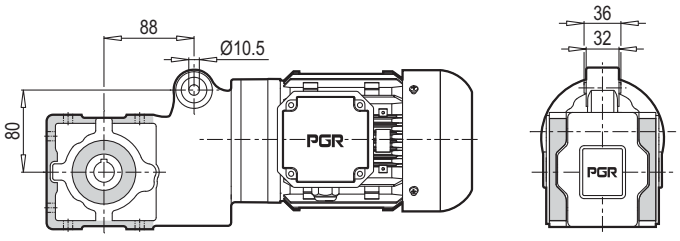


PKD A 0290 DA/Ç

66 - 67



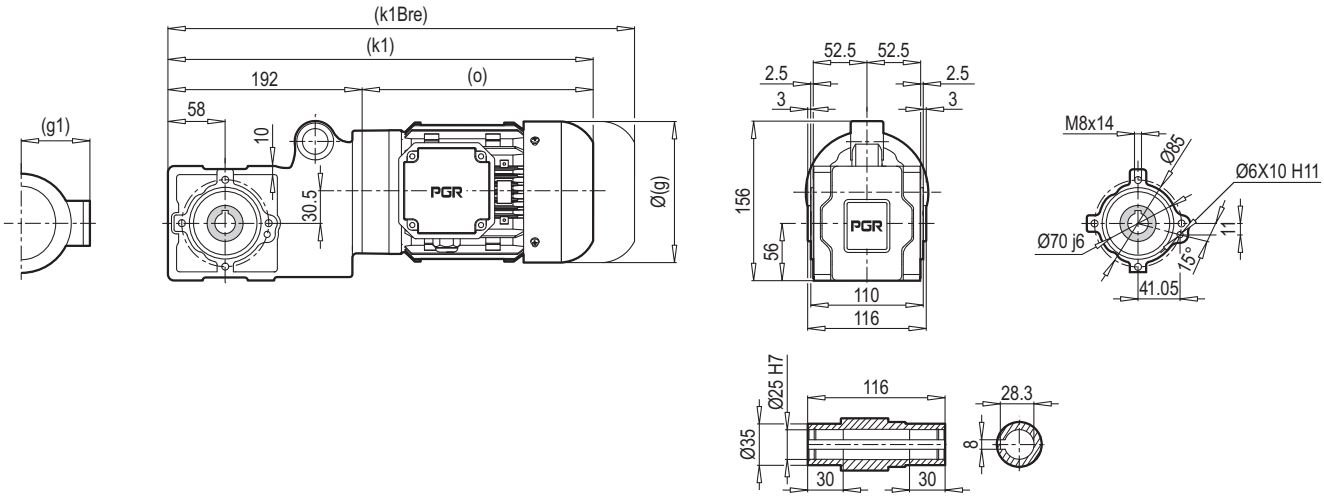
PKD A 0290 TK



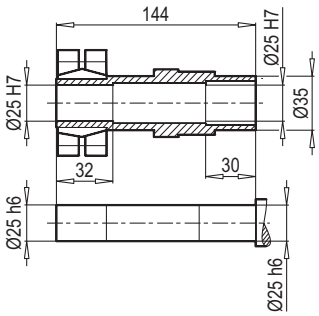
	63 M	71 M	80 M	90 S	90 L			
g	124	140	159	193	193			
g1	111	119	127	151	151			
k/ k1	388/390	417/419	444/446	470/472	490/492			
kBre/ k1Bre	440/442	477/479	506/508	543/545	563/565			
o	198	227	254	280	300			

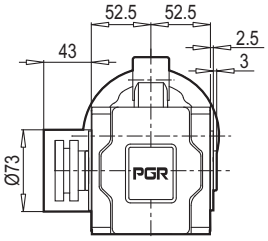
Not : (...) İşaretli olan ölçüler Motor markasına göre farklılık gösterir / Note : Dimension which is designated by (...) depends on marks of motor.

PKD A 0290 DG/B14

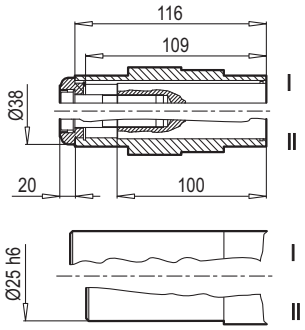


PKD A 0290 DG/KS





PKD A 0290 DG/Ç



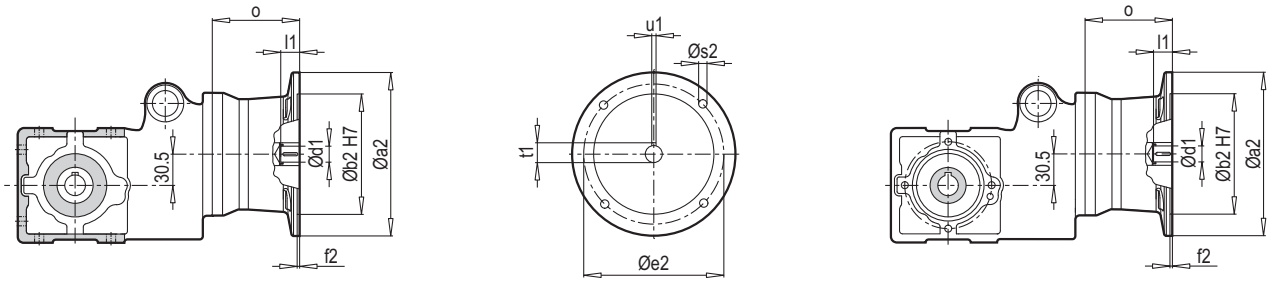
66-67

Tip/Type	Konik sıktırma / Shrink disc Mamax (Nm)	s h6	s f6	Altıköşe başlı civata / Hexagonal screw DIN 931 / DIN 933* 10.9Vz dxl	Zs	MA (Nm)
KS 25/34	90	4.19	3.28	M5x25	6	7

	63 M	71 M	80 M	90 S	90 L			
g	124	140	159	193	193			
g1	111	119	127	151	151			
k1	390	419	446	472	492			
k1Bre	442	479	508	545	565			
o	198	227	254	280	300			

Not : (...) İşaretli olan ölçüler Motor markasına göre farklılık gösterir / Note : Dimension which is designated by (...) depends on marks of motor.

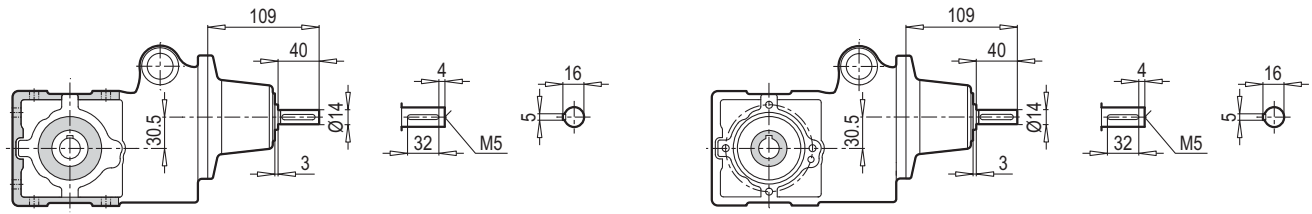
PKD A 0290 IEC



Tip / Type	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD A 0290	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	103

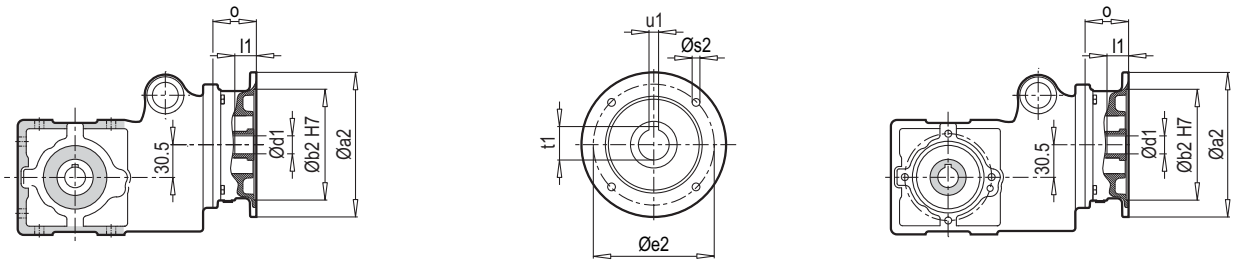
~ Kg	
IEC	PKD A 0290
63	8
71	9
80	11

PKD A 0290 TMA-W



W ~ Kg	
PKD A 0290	6

PKD A 0290 PAM B5/B14



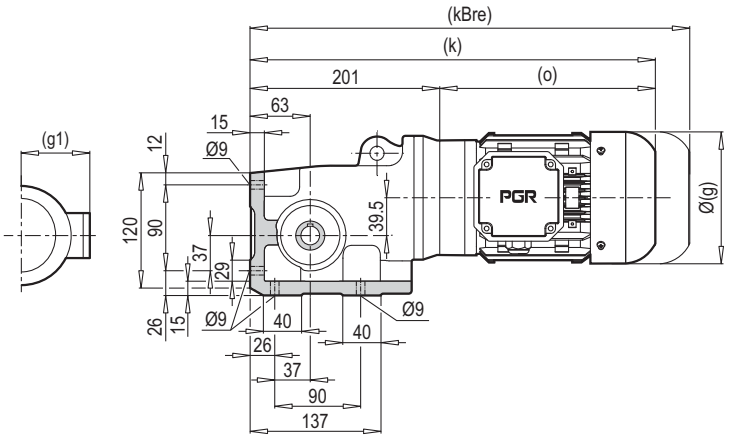
Tip / Type	PAM B5	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD A 0290	63	160	110	130	4.0	M8	14	30	16.3	5	85
	71	200	130	165	4.0	M10	19	40	21.8	6	89
	80	200	130	165	4.0	M10	24	50	27.3	8	103

~ Kg	
PAM B5	PKD A 0290
63	7
71	8
80	10

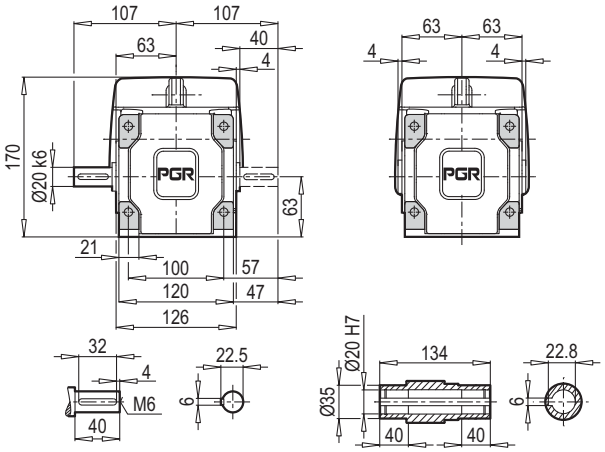
Tip / Type	PAM B14	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD A 0290	63	90	60	75	4.0	6	11	23	12.8	4	85
	71	105	70	85	4.0	7	14	30	16.3	5	89
	80	120	80	100	4.0	7	19	40	21.8	6	103

~ Kg	
PAM B14	PKD A 0290
63	7
71	8
80	10

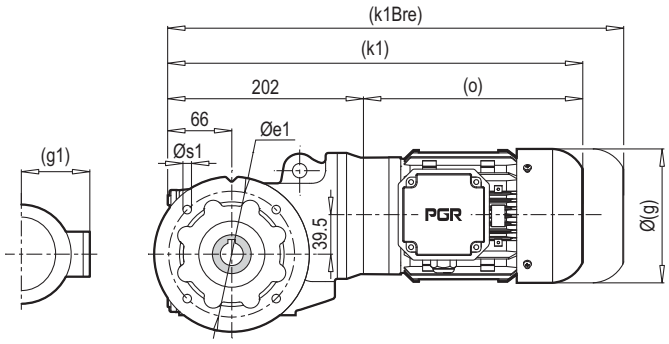
PKD B 0290 TMA



PKD B 0290 DA

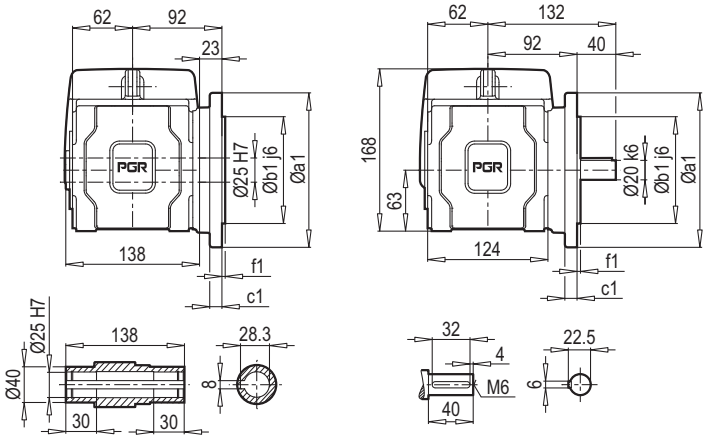


PKD B 0290 DG/B5



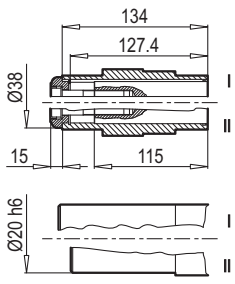
a1	b1	c1	e1	f1	s1
160	110	13	130	3.5	4x9

PKD B 0290 TMG/B5



PKD B 0290 DA/Ç

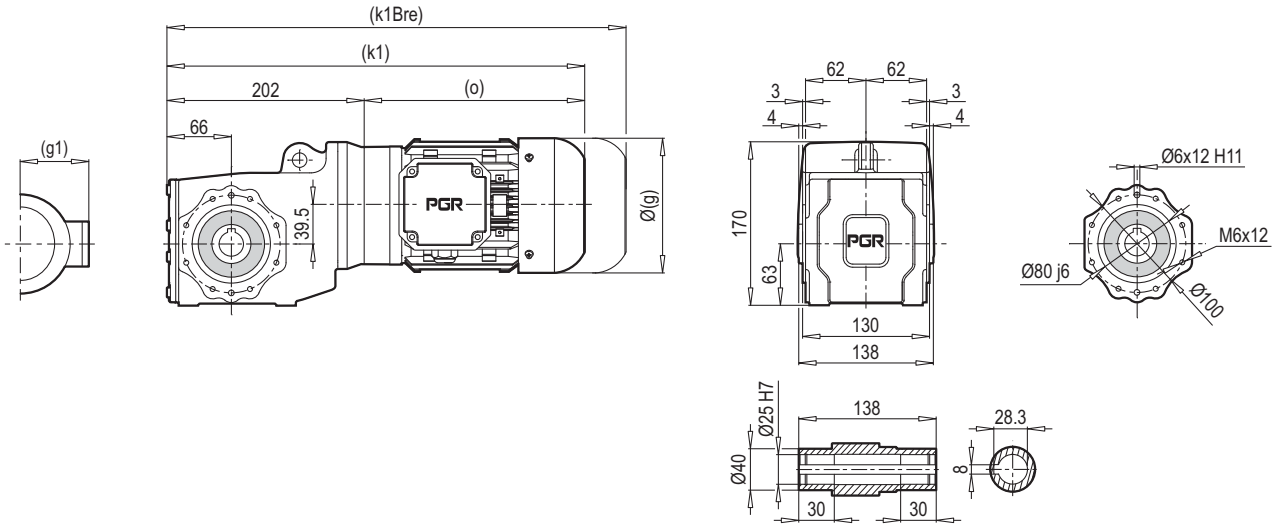
66-67



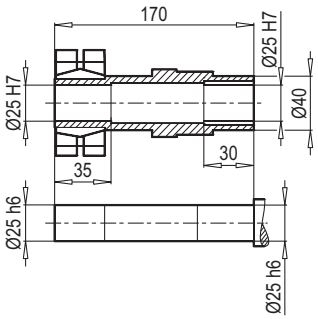
	63 M	71 M	80 M	90 S	90 L			
g	124	140	159	193	193			
g1	111	119	127	151	151			
k/ k1	399/400	428/429	455/456	481/482	501/502			
kBre/ k1Bre	451/452	488/489	517/518	554/555	574/575			
o	198	227	254	280	300			

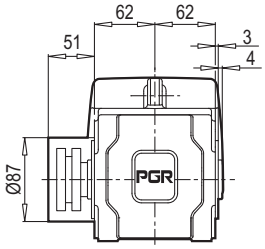
Not : (...) İşaretli olan ölçüler Motor markasına göre farklılık gösterir / Note : Dimension which is designated by (...) depends on marks of motor.

PKD B 0290 DG/B14

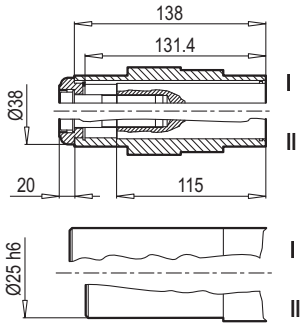


PKD B 0290 DG/KS





PKD B 0290 DG/Ç



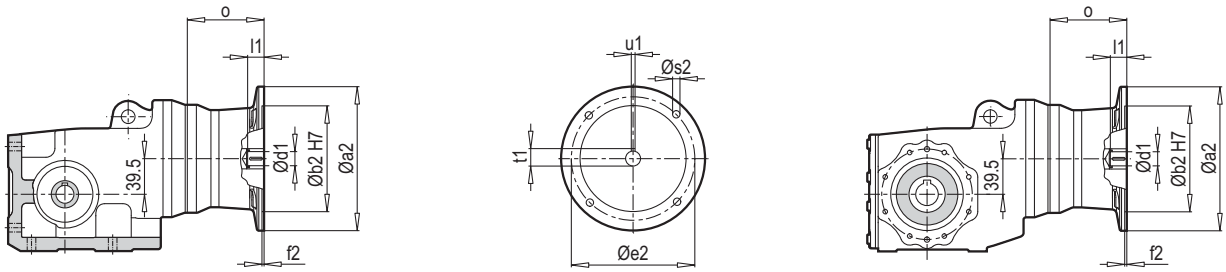
66-67

Konik sıktırma / Shrink disc				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	120	4.23	3.43	M5x25	8	7

	63 M	71 M	80 M	90 S	90 L			
g	124	140	159	193	193			
g1	111	119	127	151	151			
k1	400	429	456	482	502			
k1Bre	452	489	518	555	575			
o	198	227	254	280	300			

Not : (...) İşaretli olan ölçüler Motor markasına göre farklılık gösterir / Note : Dimension which is designated by (...) depends on marks of motor.

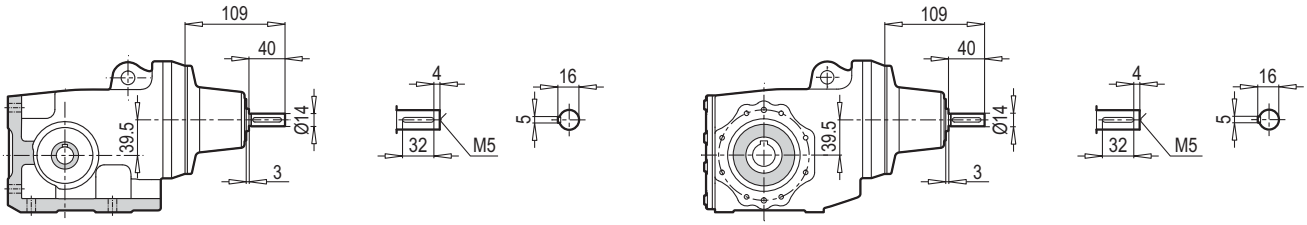
PKD B 0290 TMA-IEC



Tip / Type	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD B 0290	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

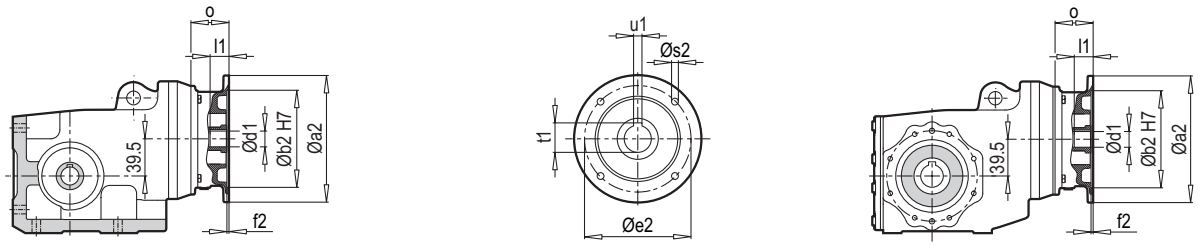
~ Kg	
IEC	PKD B 0290
63	13
71	14
80	16
90	16

PKD B 0290 TMA-W



W ~ Kg	
PKD B 0290	11

PKD B 0290 PAM B5/B14



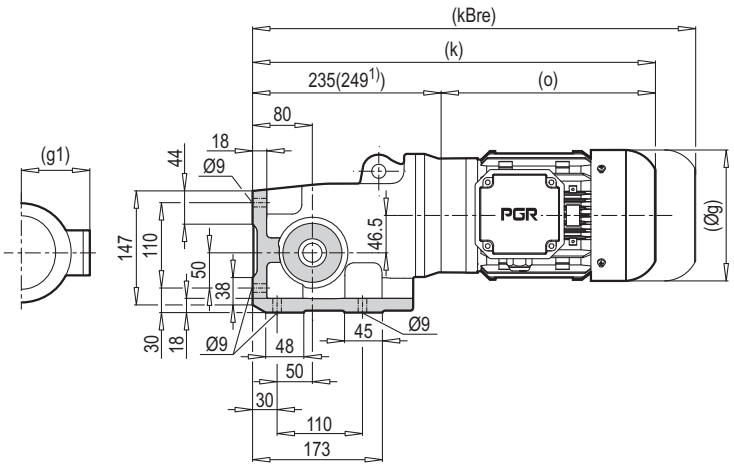
Tip / Type	PAM B5	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD B 0290	63	140	95	115	3.5	M8	11	23	12.8	4	85
	71	160	110	130	4.0	M8	14	30	16.3	5	85
	80	200	130	165	4.0	M10	19	40	21.8	6	103
	90	200	130	165	4.0	M10	24	50	27.3	8	103

~ Kg	
PAM B5	PKD B 0290
63	12
71	13
80	15
90	15

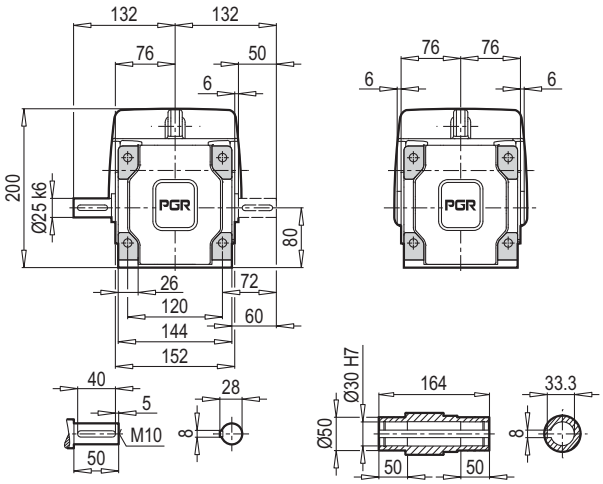
Tip / Type	PAM B14	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD B 0290	63	90	60	75	4.0	6	11	23	12.8	4	85
	71	105	70	85	4.0	7	14	30	16.3	5	85
	80	120	80	100	4.0	7	19	40	21.8	6	103
	90	140	95	115	4.0	9	24	50	27.3	8	103

~ Kg	
PAM B14	PKD B 0290
63	12
71	13
80	15
90	15

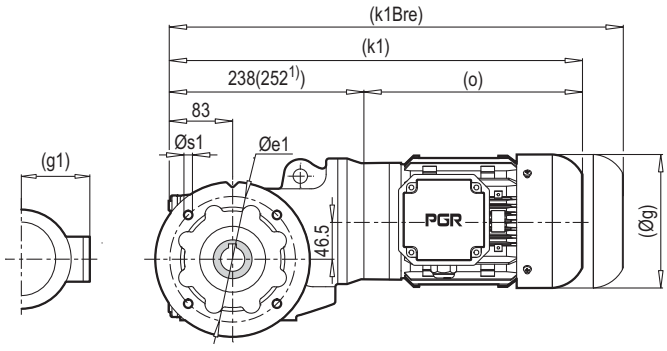
PKD C 1290 TMA



PKD C 1290 DA

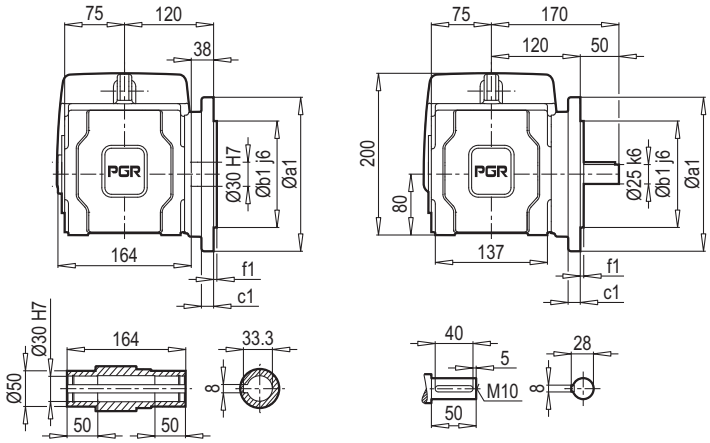


PKD C 1290 DG/B5



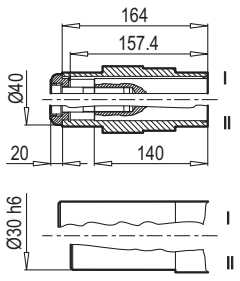
a1	b1	c1	e1	f1	s1
160	110	12	130	3.5	4x9
200	130	12	165	3.5	4x11

PKD C 1290 TMG/B5



PKD C 1290 DA/Ç

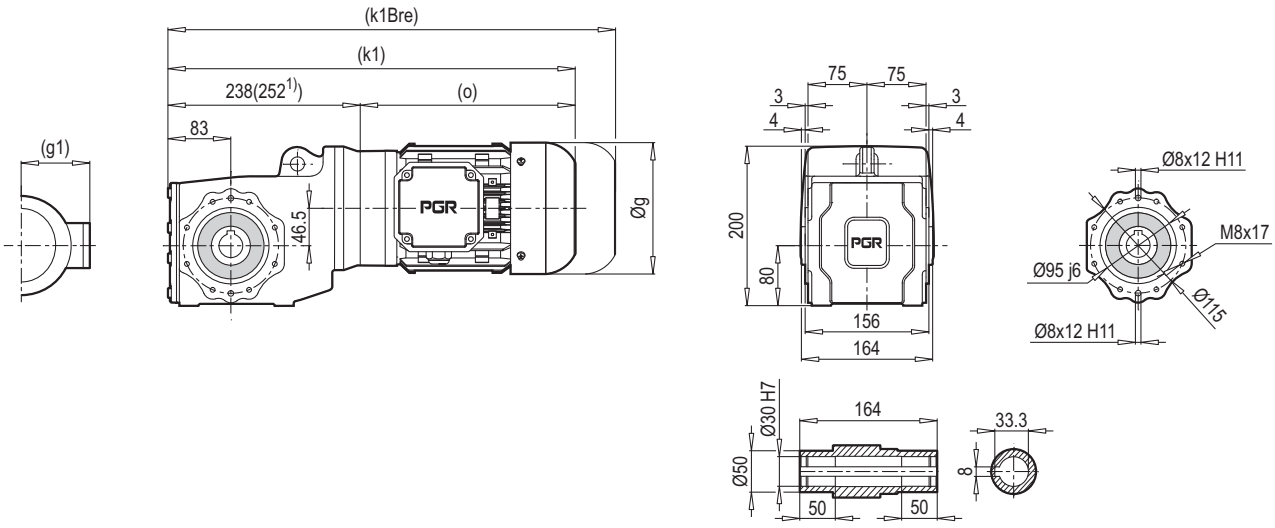
66-67



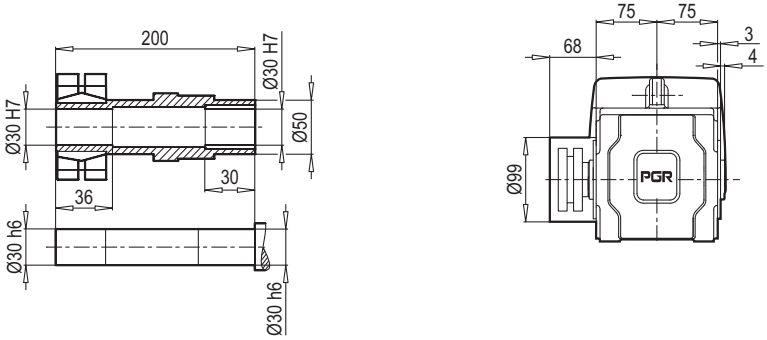
	63 M	71 M	80 M	90 S	90 L	100 L [(1)]		
g	124	140	159	193	193	217		
g1	111	119	127	151	151	160		
k/ k1	433/436	462/465	489/492	529/532	549/552	560/563		
kBre/ k1Bre	485/488	522/525	551/554	602/605	622/625	641/644		
o	198	227	254	280	300	311		

Not : (...) İşaretli olan ölçüler Motor markasına göre farklılık gösterir / Note : Dimension which is designated by (...) depends on marks of motor.

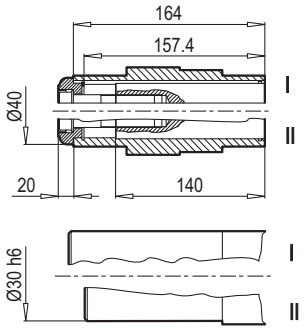
PKD C 1290 DG/B14



PKD C 1290 DG/KS



PKD C 1290 DG/Ç



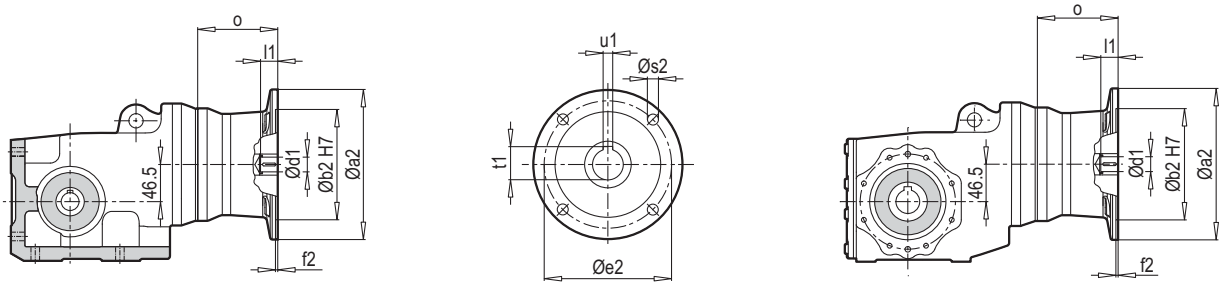
66-67

Tip/Type	**Konik sıktırma /** Shrink disc			**Altıköşe başlı civata /** Hexagonal screw **DIN 931 /** DIN 933* 10.9Vz		
	M_{amax} (Nm)	s^{h6}	s^{f6}	dxl	Zs	MA (Nm)
KS 30/40	230	4.26	3.73	M6x35*	8	12

	63 M	71 M	80 M	90 S	90 L	100 L (1)		
g	124	140	159	193	193	217		
g1	111	119	127	151	151	160		
k1	436	465	492	532	552	563		
k1Bre	488	525	554	605	625	644		
o	198	227	254	280	300	311		

Not : (...) İşaretli olan ölçüler Motor markasına göre farklılık gösterir / Note : Dimension which is designated by (...) depends on marks of motor.

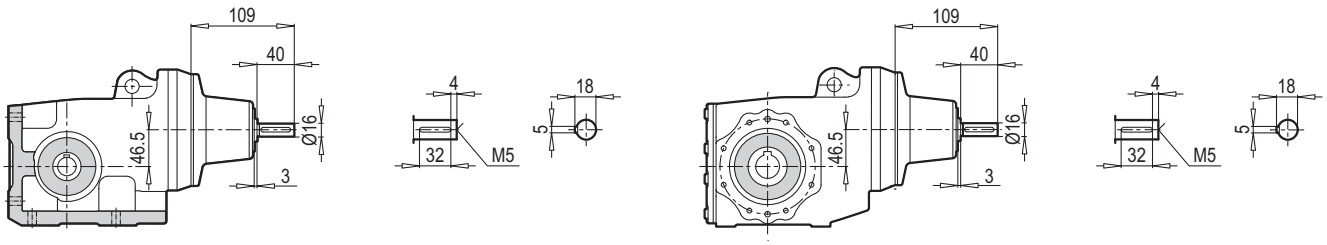
PKD C 1290 IEC



Tip / Type	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD C 1290	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
	100	250	180	215	5.0	M12	28	60	31.3	8	126

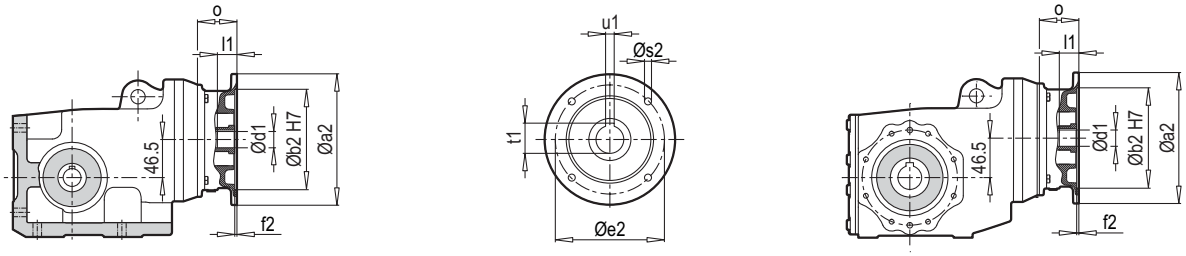
~ Kg	
IEC	PKD C 1290
63	19
71	20
80	22
90	22
100	27

PKD C 1290 TMA-W



W ~ Kg	
PKD C 1290	18

PKD C 1290 PAM B5/B14



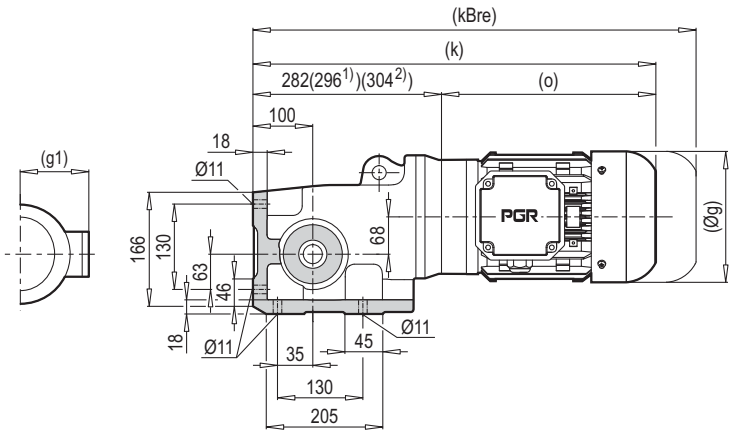
Tip / Type	PAM B5	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD C 1290	63	140	95	115	3.5	M8	11	23	12.8	4	85
	71	160	110	130	4.0	M8	14	30	16.3	5	85
	80	200	130	165	4.0	M10	19	40	21.8	6	103
	90	200	130	165	4.0	M10	24	50	27.3	8	103
	100	250	180	215	5.0	M12	28	60	31.3	8	126

~ Kg	
PAM B5	PKD C 1290
63	18
71	19
80	21
90	21
100	26

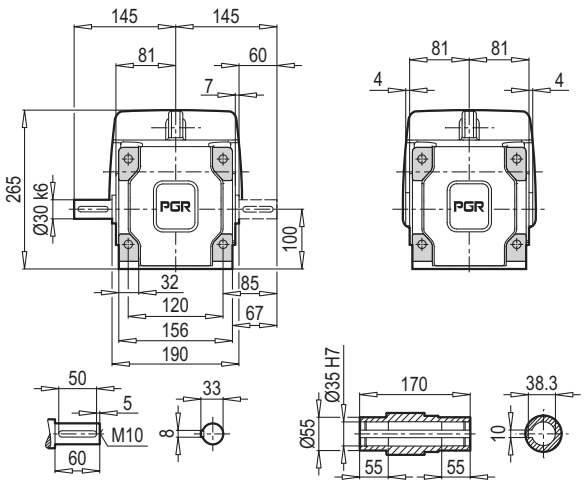
Tip / Type	PAM B14	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD C 1290	63	90	60	75	4.0	6	11	23	12.8	4	85
	71	105	70	85	4.0	7	14	30	16.3	5	85
	80	120	80	100	4.0	7	19	40	21.8	6	103
	90	140	95	115	4.0	9	24	50	27.3	8	103
	100	160	110	130	5.0	9	28	60	31.3	8	126

~ Kg	
PAM B14	PKD C 1290
63	18
71	19
80	21
90	21
100	26

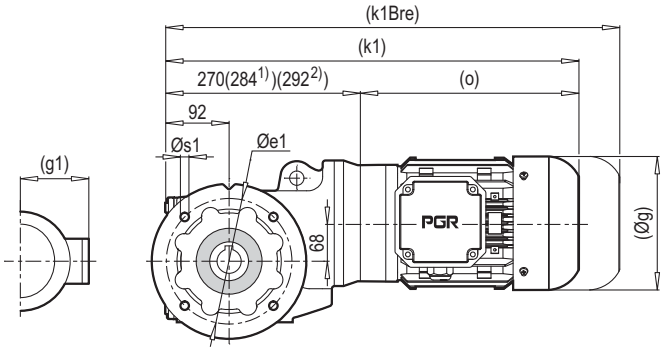
PKD F 4290 TMA



PKD F 4290 DA

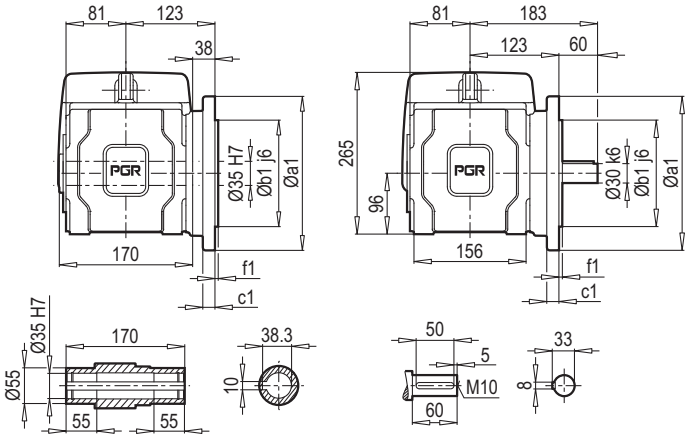


PKD F 4290 DG/B5



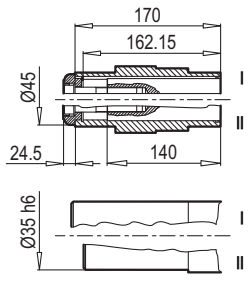
a1	b1	c1	e1	f1	s1
160	110	12	130	3.5	4x9
200	130	12	165	3.5	4x11

PKD F 4290 TMG/B5



PKD F 4290 DA/Ç

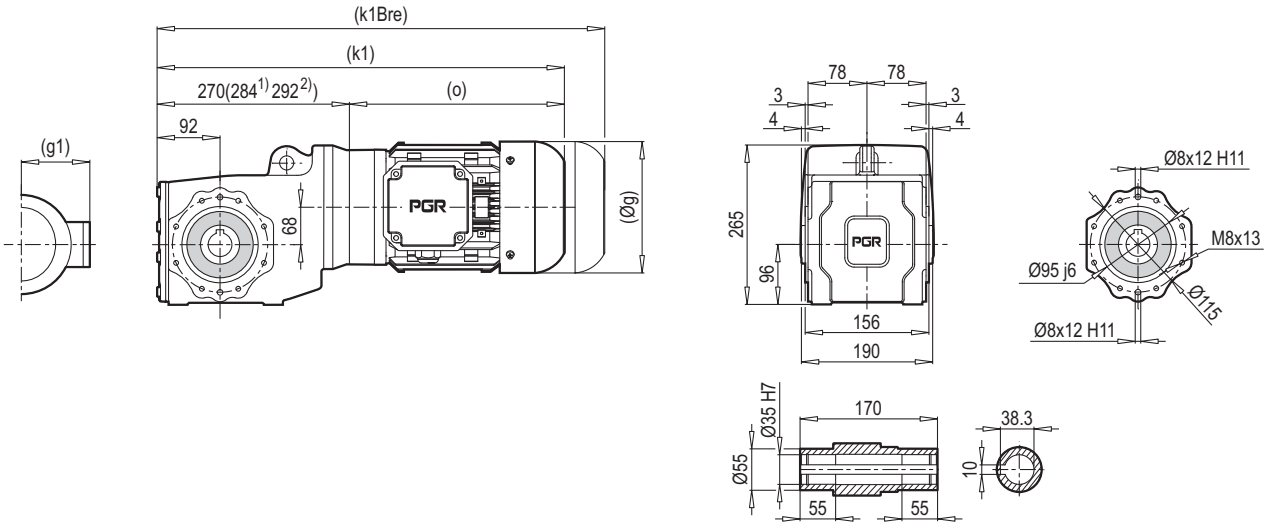
66-67



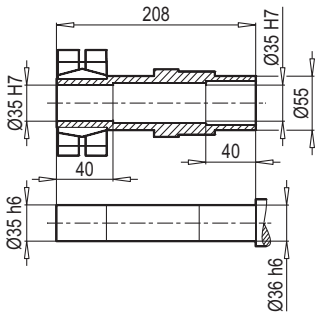
	63 M	71 M	80 M	90 S	90 L	100 L (1)	112 M (2)	132 S (2)	132 M (2)
g	124	140	159	193	193	217	232	279	279
g1	111	119	127	151	151	160	168	182	182
k/ k1	480/468	509/497	536/524	576/564	596/584	607/595	672/660	677/665	712/700
kBre/ k1Bre	532/520	569/557	598/586	649/637	669/657	688/676	752/740	785/773	853/841
o	198	227	254	280	300	311	368	373	408

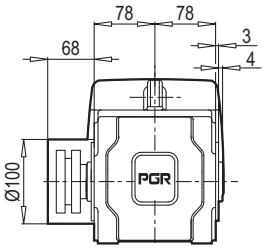
Not : (...) İşaretli olan ölçüler Motor markasına göre farklılık gösterir / Note : Dimension which is designated by (...) depends on marks of motor.

PKD F 4290 DG/B14

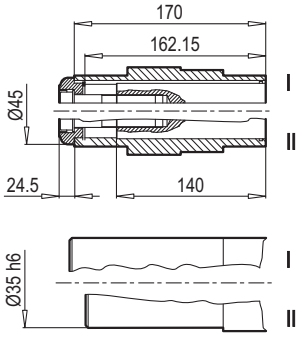


PKD F 4290 DG/KS





PKD F 4290 DG/Ç



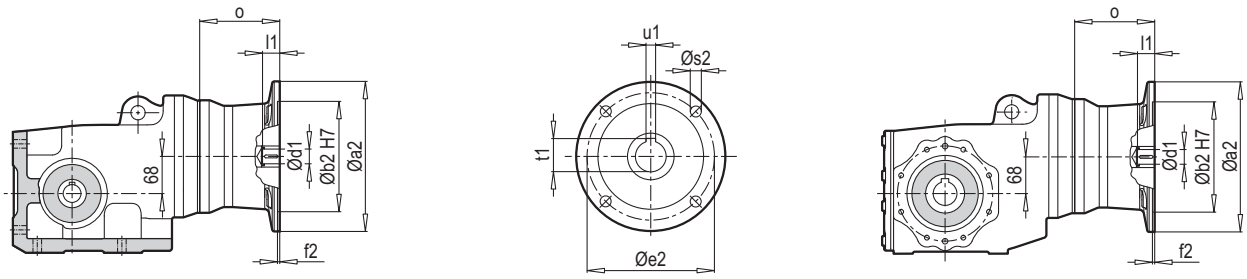
66-67

Tip/Type	Konik sıktırma / Shrink disc Mamax (Nm)	s h6	s f6	Altıköşe başlı civata / Hexagonal screw DIN 931 / DIN 933* 10.9Vz dxl	Zs	MA (Nm)
KS 35/46	380	3.77	3.27	M6x35*	10	12

	63 M	71 M	80 M	90 S	90 L	100 L (1)	112 M (2)	132 S (2)	132 M (2)
g	124	140	159	193	193	217	232	279	279
g1	111	119	127	151	151	160	168	182	182
k1	468	497	524	564	584	595	660	665	700
k1Bre	520	557	586	637	657	676	740	773	841
o	198	227	254	280	300	311	368	373	408

Not : (...) İşaretli olan ölçüler Motor markasına göre farklılık gösterir / Note : Dimension which is designated by (...) depends on marks of motor.

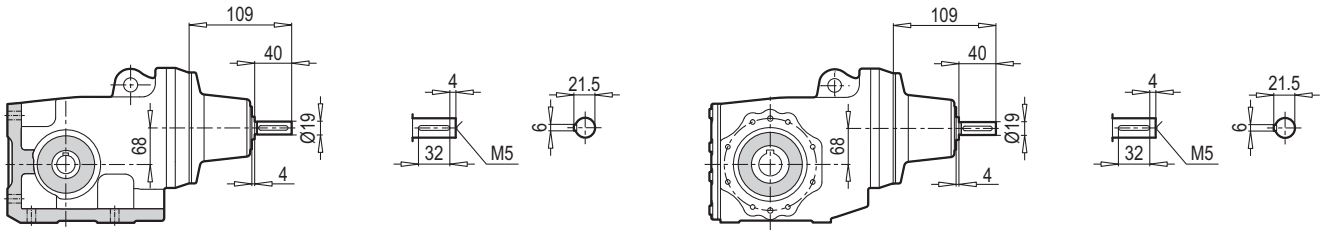
PKD F 4290 IEC



Tip / Type	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD F 4290	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
	100	250	180	215	5.0	M12	28	60	31.3	8	126
	112	250	180	215	5.0	M12	28	60	31.3	8	126
	132	300	230	265	5.0	M12	38	80	41.3	10	175

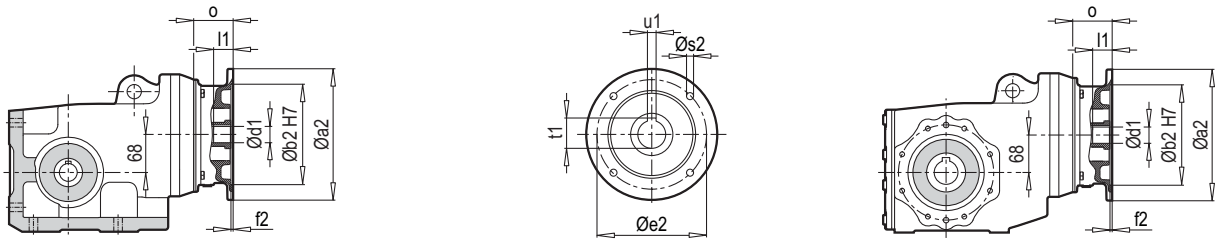
~ Kg	
IEC	PKD F 4290
63	36
71	37
80	39
90	39
100	44
112	44
132	51

PKD F 4290 W



W ~ Kg	
PKD F 4290	35.5

PKD F 4290 PAM B5/B14



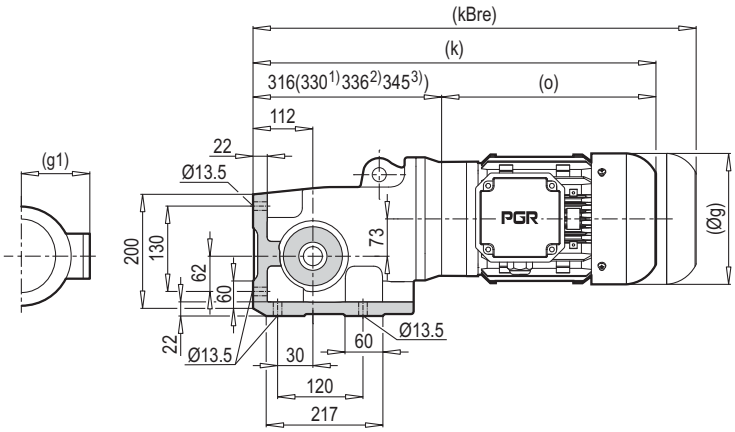
Tip / Type	PAM B5	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD F 4290	63	140	95	115	3.5	M8	11	23	12.8	4	85
	71	160	110	130	4.0	M8	14	30	16.3	5	85
	80	200	130	165	4.0	M10	19	40	21.8	6	103
	90	200	130	165	4.0	M10	24	50	27.3	8	103
	100	250	180	215	5.0	M12	28	60	31.3	8	126
	112	250	180	215	5.0	M12	28	60	31.3	8	126
	132	300	230	265	5.0	M12	38	80	41.3	10	175

~ Kg	
PAM B5	PKD F 4290
63	35
71	36
80	38
90	38
100	43
112	43
132	50

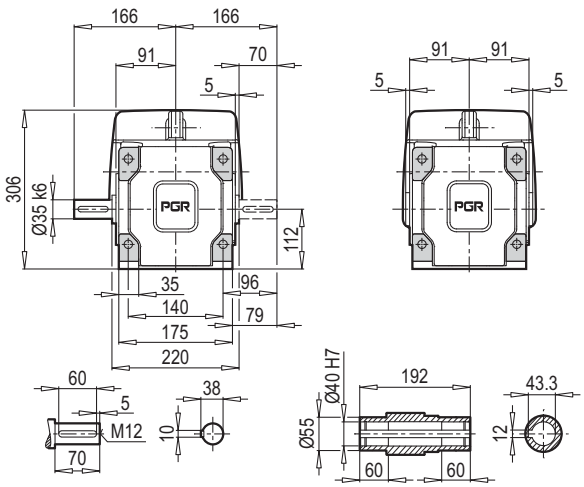
Tip / Type	PAM B14	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD F 4290	63	90	60	75	4.0	6	11	23	12.8	4	85
	71	105	70	85	4.0	7	14	30	16.3	5	85
	80	120	80	100	4.0	7	19	40	21.8	6	103
	90	140	95	115	4.0	9	24	50	27.3	8	103
	100	160	110	130	5.0	9	28	60	31.3	8	126
	112	160	110	130	5.0	9	28	60	31.3	8	126
	132	200	130	165	5.0	11	38	80	41.3	10	175

~ Kg	
PAM B14	PKD F 4290
63	34
71	35
80	37
90	37
100	42
112	42
132	49

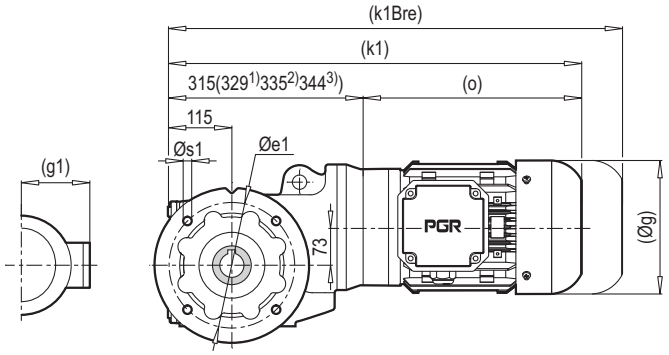
PKD H 5290 TMA



PKD H 5290 DA

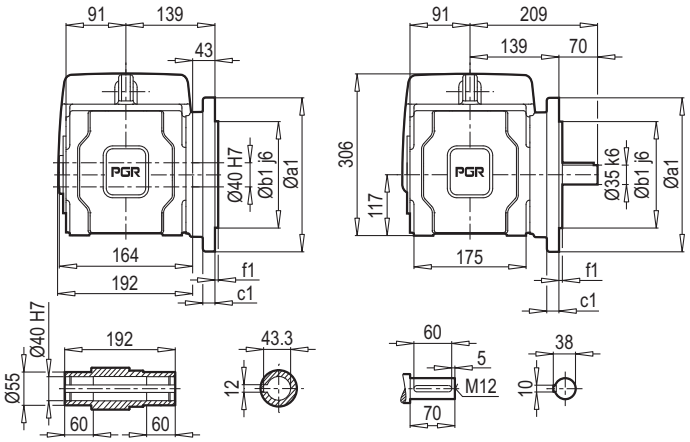


PKD H 5290 DG/B5



a1	b1	c1	e1	f1	s1
250	180	16	215	4	4x13.5

PKD H 5290 TMG/B5



PKD H 5290 DA/Ç

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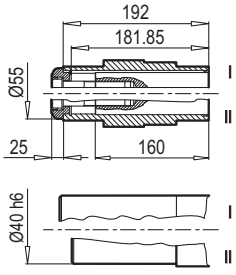
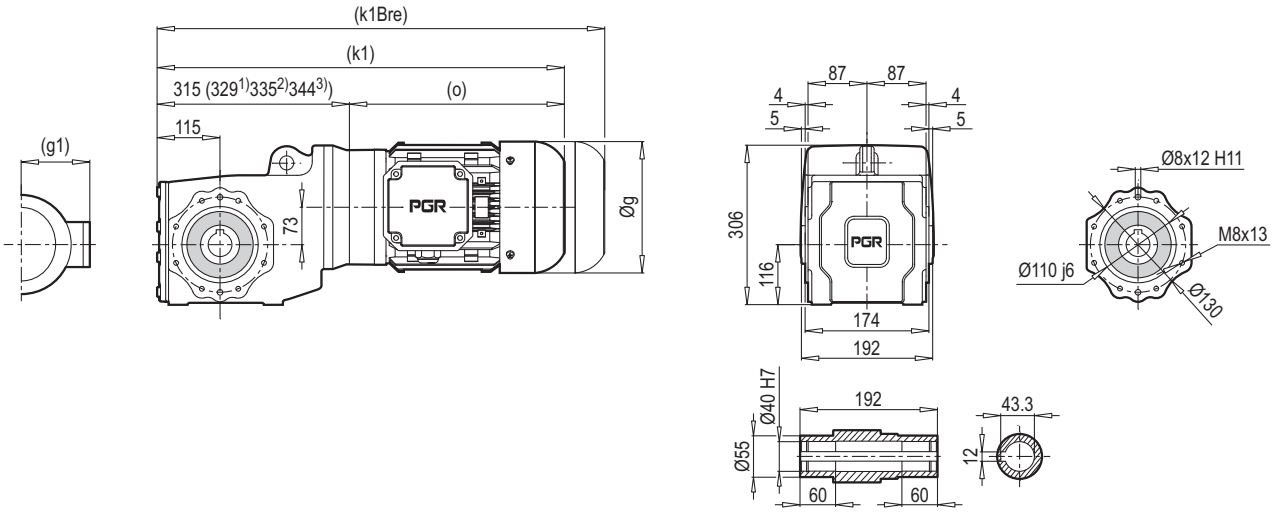


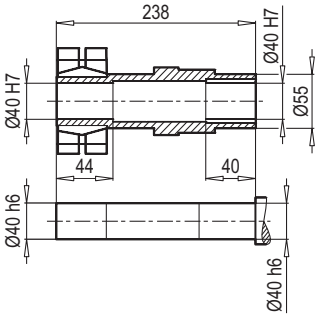
	80 M	90 S	90 L	100 L [1]	112 M [2]	132 S [3]	132 M [3]	
g	159	193	193	217	232	279	279	
g1	127	151	151	160	168	182	182	
k/ k1	570/569	610/609	630/629	641/640	706/705	718/717	753/752	
kBre/ k1Bre	632/631	683/682	703/702	722/721	786/785	826/825	894/893	
o	254	280	300	311	368	373	408	

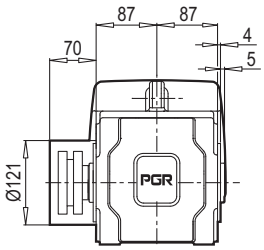
Not : (...) İşaretli olan ölçüler Motor markasına göre farklılık gösterir / Note : Dimension which is designated by (...) depends on marks of motor.

PKD H 5290 DG/B14

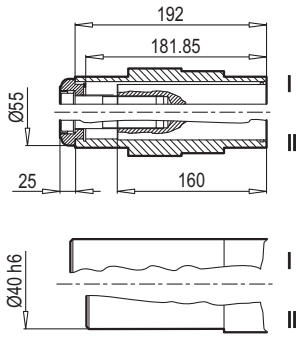


PKD H 5290 DG/KS





PKD H 5290 DG/Ç



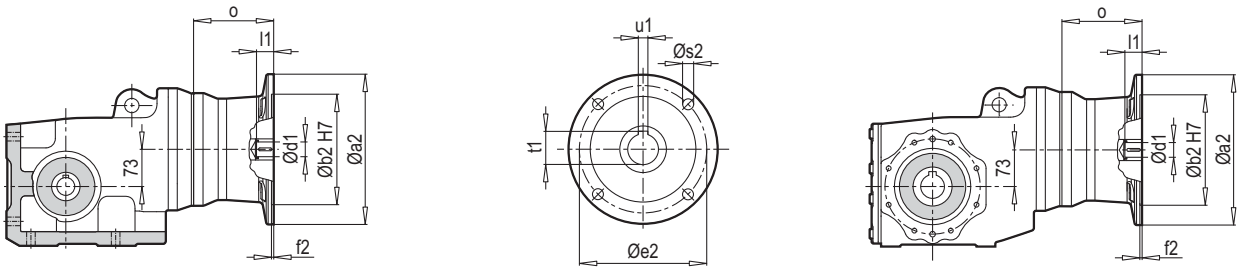
66-67

Konik sıktırma / Shrink disc				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 40/55	660	3.53	3.09	M8x40	8	30

	80 M	90 S	90 L	100 L (1)	112 M (2)	132 S (3)	132 M (3)	
g	159	193	193	217	232	279	279	
g1	127	151	151	160	168	182	182	
k1	569	609	629	640	705	717	752	
k1Bre	631	682	702	721	785	825	893	
o	254	280	300	311	368	373	408	

Not : (...) İşaretli olan ölçüler Motor markasına göre farklılık gösterir / Note : Dimension which is designated by (...) depends on marks of motor.

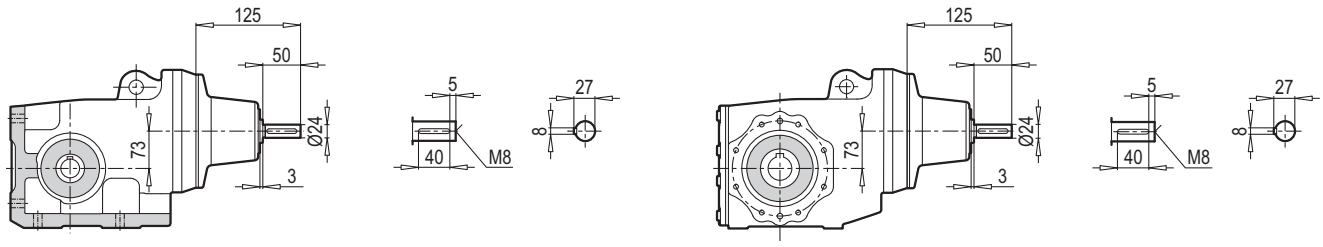
PKD H 5290 IEC



Tip / Type	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD H 5290	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	103
	90	200	130	165	4.0	M10	24	50	27.3	8	103
	100	250	180	215	5.0	M12	28	60	31.3	8	126
	112	250	180	215	5.0	M12	28	60	31.3	8	126
	132	300	230	265	5.0	M12	38	80	41.3	10	175

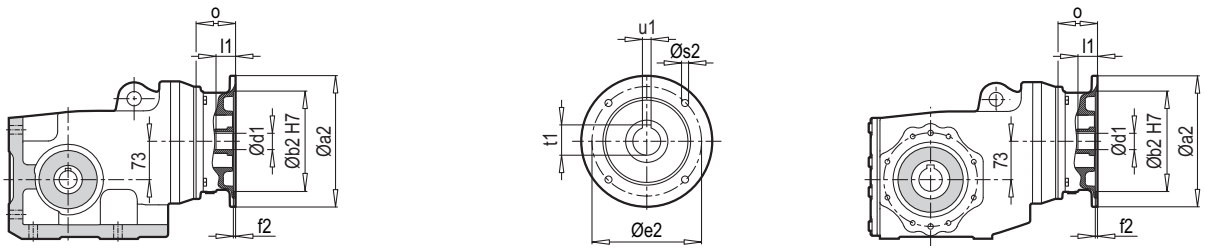
~ Kg	
IEC	PKD H 5290
63	45
71	46
80	48
90	48
100	53
112	53
132	60

PKD H 5290 W



W ~ Kg	
PKD H 5290	46

PKD H 5290 PAM B5/B14



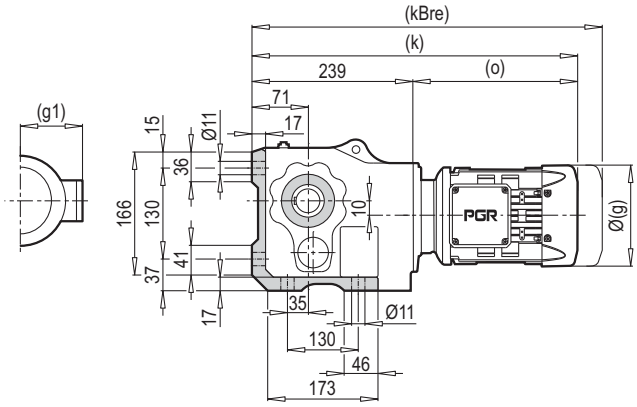
Tip / Type	PAM B5	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD H 5290	63	140	95	115	3.5	M8	11	23	12.8	4	85
	71	160	110	130	4.0	M8	14	30	16.3	5	89
	80	200	130	165	4.0	M10	19	40	21.8	6	103
	90	200	130	165	4.0	M10	24	50	27.3	8	103
	100	250	180	215	5.0	M12	28	60	31.3	8	126
	112	250	180	215	5.0	M12	28	60	31.3	8	126
	132	300	230	265	5.0	M12	38	80	41.3	10	175

~ Kg	
PAM B5	PKD H 5290
63	44
71	45
80	47
90	47
100	52
112	52
132	59

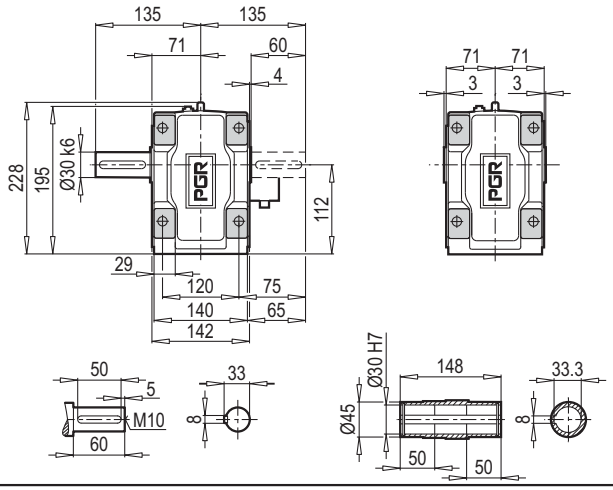
Tip / Type	PAM B14	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD H 5290	63	90	60	75	4.0	6	11	23	12.8	4	85
	71	105	70	85	4.0	7	14	30	16.3	5	89
	80	120	80	100	4.0	7	19	40	21.8	6	103
	90	140	95	115	4.0	9	24	50	27.3	8	103
	100	160	110	130	5.0	9	28	60	31.3	8	126
	112	160	110	130	5.0	9	28	60	31.3	8	126
	132	200	130	165	5.0	11	38	80	41.3	10	175

~ Kg	
PAM B14	PKD H 5290
63	43
71	44
80	46
90	46
100	51
112	51
132	58

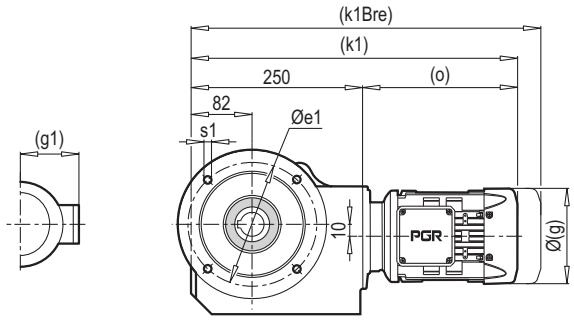
PKD 1390 TMA



PKD 1390 DA

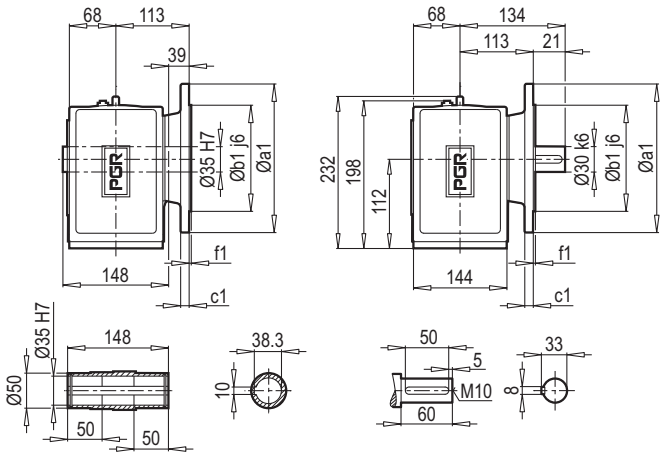


PKD 1390 DG/B5



a1	b1	c1	e1	f1	s1
200	130	12	165	3.5	4x11

PKD 1390 TMG/B5



PKD 1390 DA/Ç

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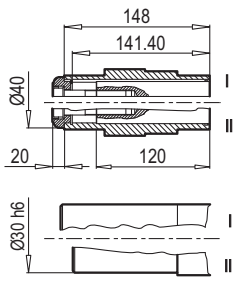
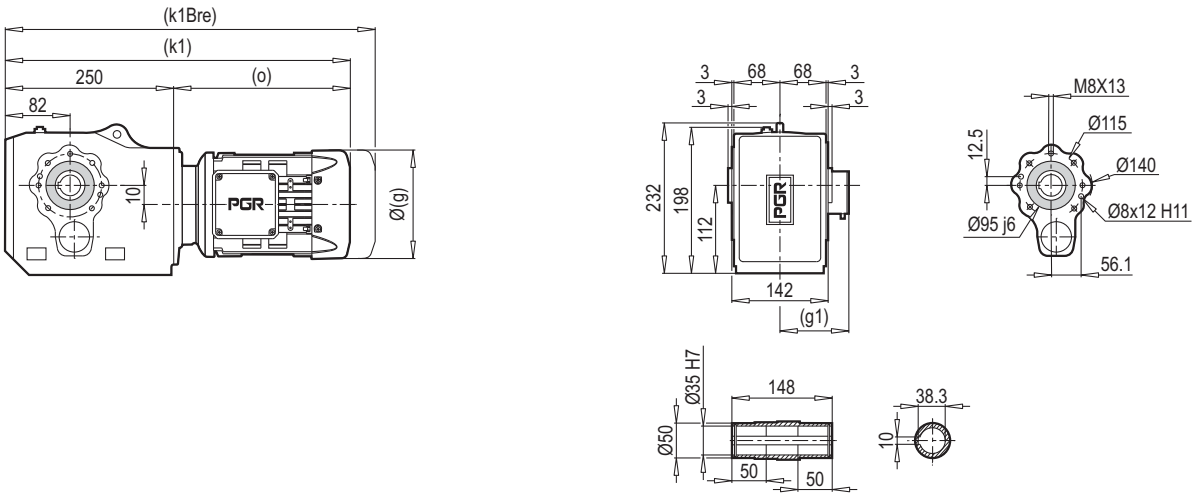


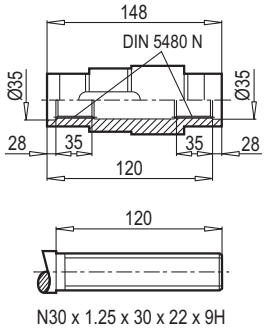
	63 M	71 M	80 M	90 S/L	100 L	112 M		
g	124	140	159	193	217	232		
g1	111	119	127	151	160	168		
k	437	479	506	529/549	577	622		
kBre	489	539	568	602/622	658	702		
o	198	240	267	290/310	338	383		

Not : (...) İşaretli olan ölçüler Motor markasına göre farklılık gösterir / Note : Dimension which is designated by (...) depends on marks of motor.

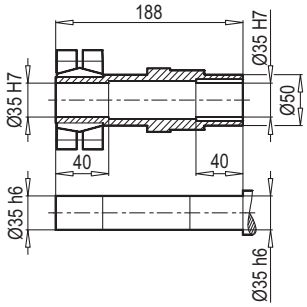
PKD 1390 DG/B14

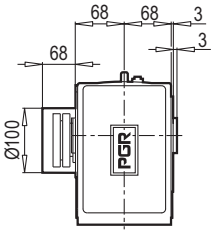


PKD 1390 DG/DIN 5480

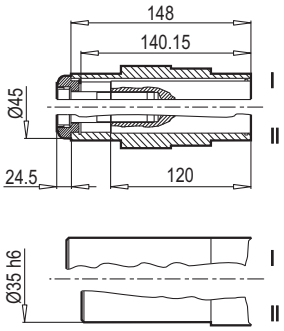


PKD 1390 DG/KS





PKD 1390 DG/Ç



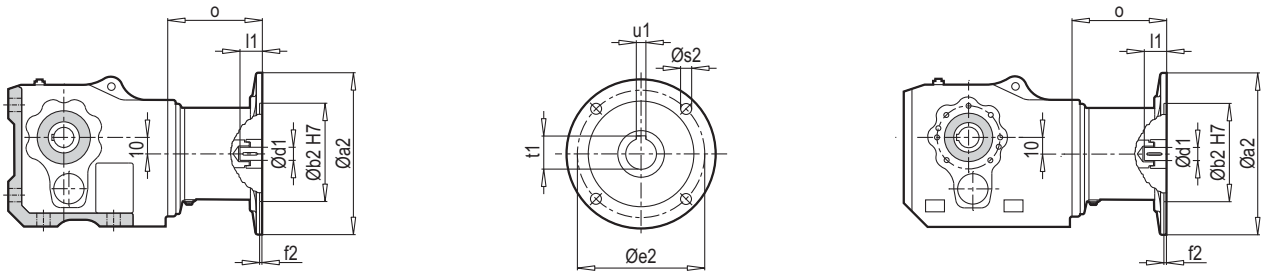
66-67

Tip/Type	Konik sıktırma / Shrink disc: M_{amax} (Nm)	s^{h6}	s^{f6}	Altıköşe başlı civata / Hexagonal screw DIN 931 / DIN 933* 10.9Vz: dxl	Zs	MA (Nm)
KS 35/46	400	3.58	3.11	M6x35*	10	12

	63 M	71 M	80 M	90 S/L	100 L	112 M		
g	124	140	159	193	217	232		
g1	111	119	127	151	160	168		
k1	448	490	517	540/560	588	633		
k1Bre	500	550	579	613/633	669	713		
o	198	240	267	290/310	338	383		

Not : (...) İşaretli olan ölçüler Motor markasına göre farklılık gösterir / Note : Dimension which is designated by (...) depends on marks of motor.

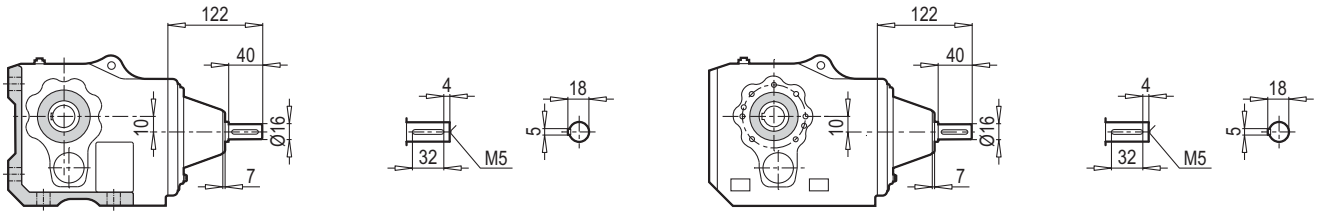
PKD 1390 IEC



Tip / Type	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD 1390	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

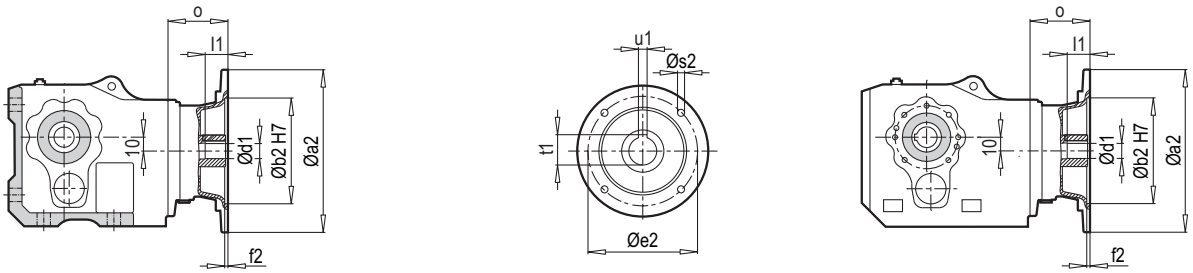
~ Kg	
IEC	PKD 1390
63	36
71	37
80	41
90	41
100	48
112	48

PKD 1390 W



W ~ Kg	
PKD 1390	35

PKD 1390 PAM B5/B14



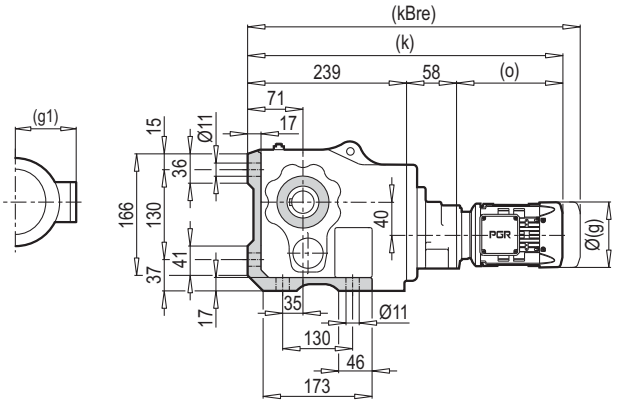
Tip / Type	PAM B5	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD 1390	63	140	95	115	3.5	M8	11	23	12.8	4	85
	71	160	110	130	4.0	M8	14	30	16.3	5	55
	80	200	130	165	4.0	M10	19	40	21.8	6	74
	90	200	130	165	4.0	M10	24	50	27.3	8	74
	100	250	180	215	5.0	M12	28	60	31.3	8	131.5
	112	250	180	215	5.0	M12	28	60	31.3	8	131.5

~ Kg	
PAM B5	PKD 1390
63	34
71	34
80	35
90	35
100	42
112	42

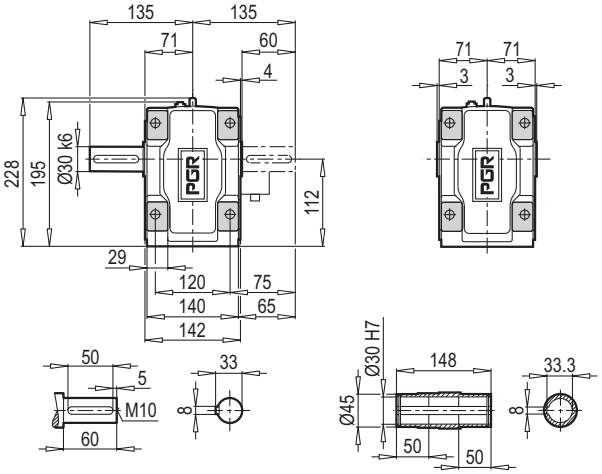
Tip / Type	PAM B14	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD 1390	63	90	60	75	4.0	6	11	23	12.8	4	60
	71	105	70	85	4.0	7	14	30	16.3	5	55
	80	120	80	100	4.0	7	19	40	21.8	6	74
	90	140	95	115	4.0	9	24	50	27.3	8	74
	100	160	110	130	5.0	9	28	60	31.3	8	75
	112	160	110	130	5.0	11	28	60	31.3	8	75

~ Kg	
PAM B14	PKD 1390
63	33
71	33
80	34
90	34
100	35
112	35

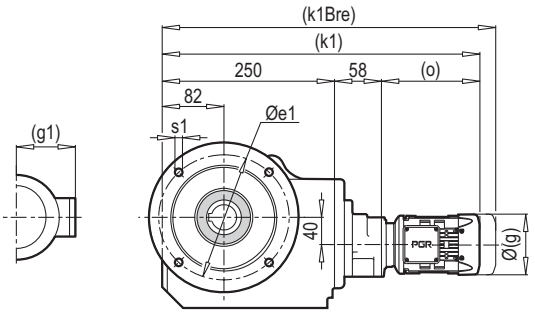
PKD 1490 TMA



PKD 1490 DA

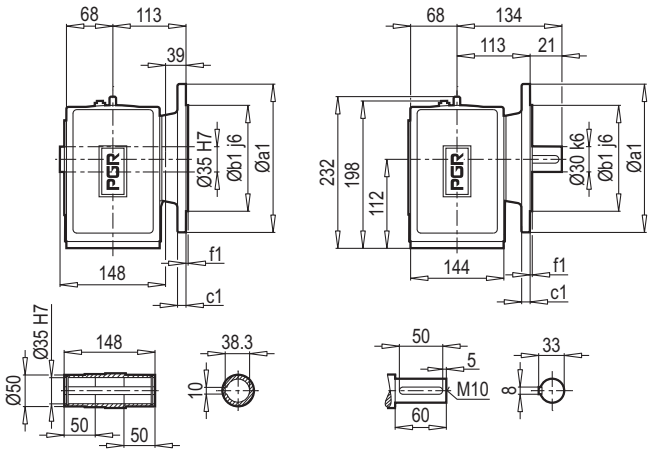


PKD 1490 DG/B5



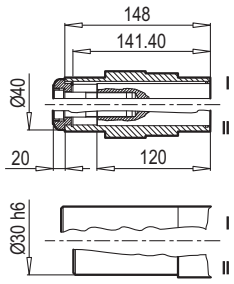
a1	b1	c1	e1	f1	s1
200	130	12	165	3.5	4x11

PKD 1490 TMG/B5



PKD 1490 DA/Ç

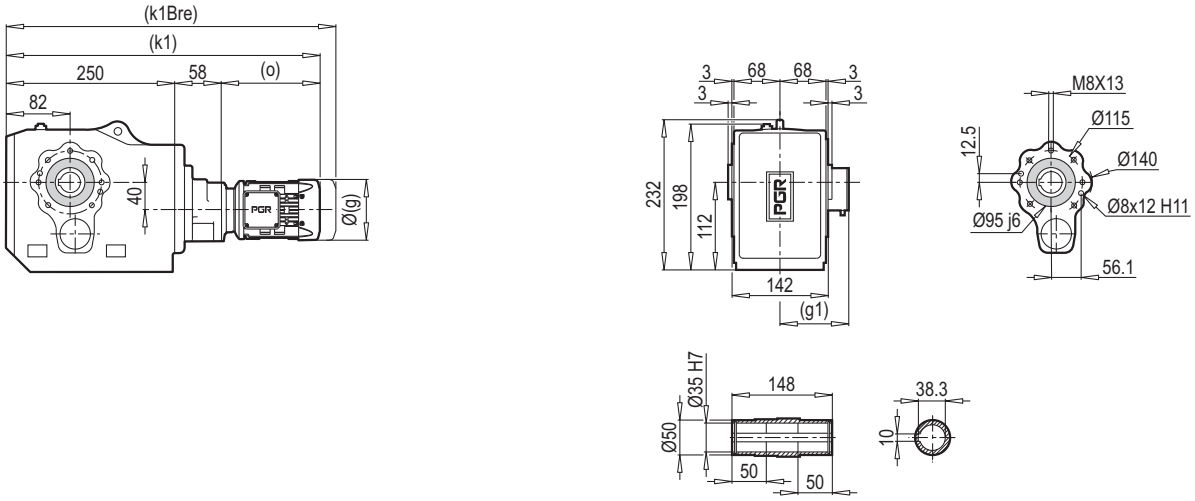
66-67



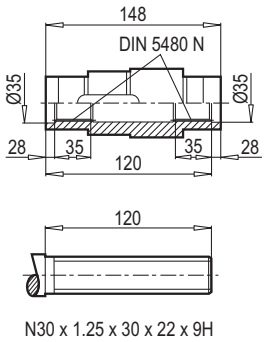
	63 M	71 M						
g	124	140						
g1	111	119						
k	495	537						
kBre	547	597						
o	198	240						

Not : (...) İşaretli olan ölçüler Motor markasına göre farklılık gösterir / Note : Dimension which is designated by (...) depends on marks of motor.

PKD 1490 DG/B14

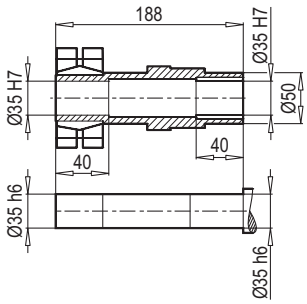


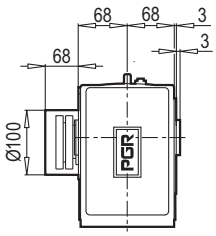
PKD 1490 DG/DIN 5480



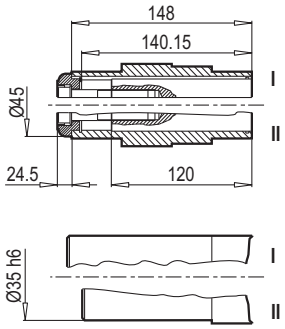
N30 x 1.25 x 30 x 22 x 9H

PKD 1490 DG/KS





PKD 1490 DG/Ç



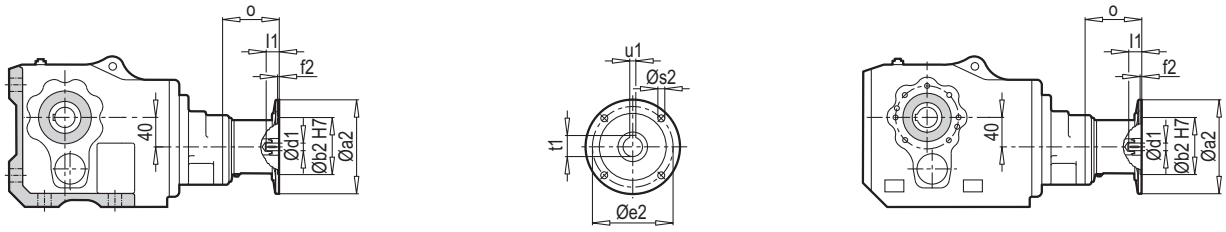
66-67

Tip/Type	Konik sıktırma / Shrink disc: M_{amax} (Nm)	s^{h6}	s^{f6}	Altıköşe başlı civata / Hexagonal screw DIN 931 / DIN 933* 10.9Vz: dxl	Zs	MA (Nm)
KS 35/46	400	3.58	3.11	M6x35*	10	12

	63 M	71 M						
g	124	140						
g1	111	119						
k1	506	548						
k1Bre	558	608						
o	198	240						

Not : (...) İşaretli olan ölçüler Motor markasına göre farklılık gösterir / Note : Dimension which is designated by (...) depends on marks of motor.

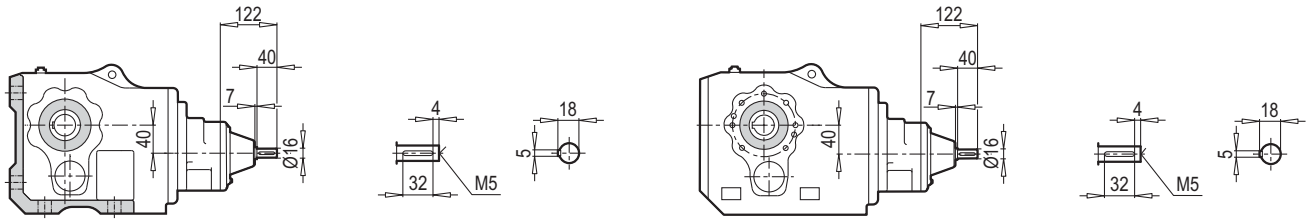
PKD 1490 IEC



Tip / Type	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD 1490	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

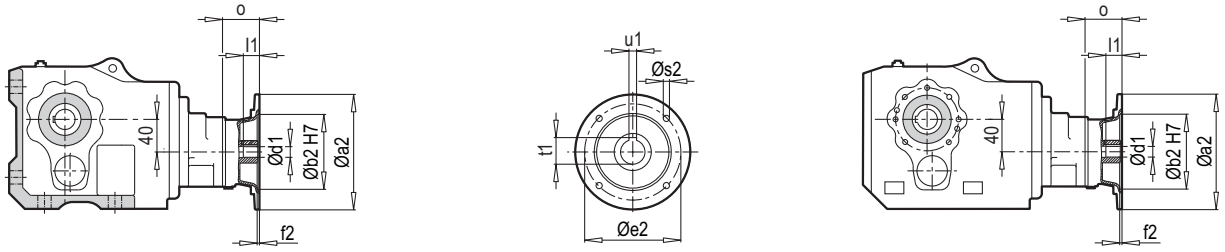
~ Kg	
IEC	PKD 1490
63	36
71	37

PKD 1490 W



W ~ Kg	
PKD 1490	41

PKD 1490 PAM B5/B14



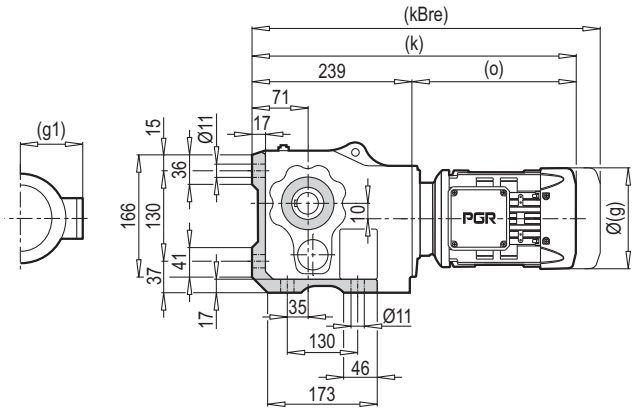
Tip / Type	PAM B5	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD 1490	63	140	95	115	3.5	M8	11	23	12.8	4	85
	71	160	110	130	4.0	M8	14	30	16.3	5	55

~ Kg	
PAM B5	PKD 1490
63	39
71	39

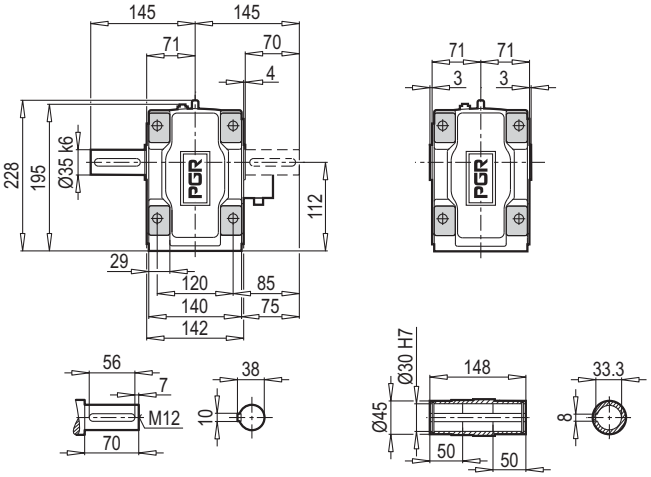
Tip / Type	PAM B14	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD 1490	63	90	60	75	4.0	6	11	23	12.8	4	60
	71	105	70	85	4.0	7	14	30	16.3	5	55

~ Kg	
PAM B14	PKD 1490
63	38
71	38

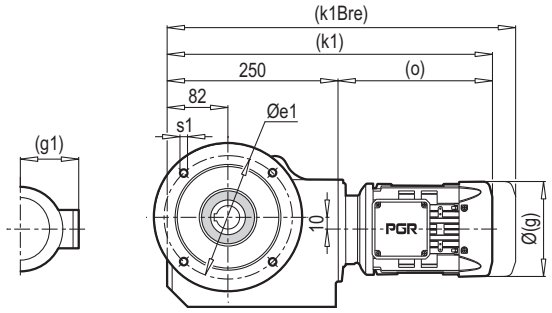
PKD G 1390 TMA



PKD G 1390 DA

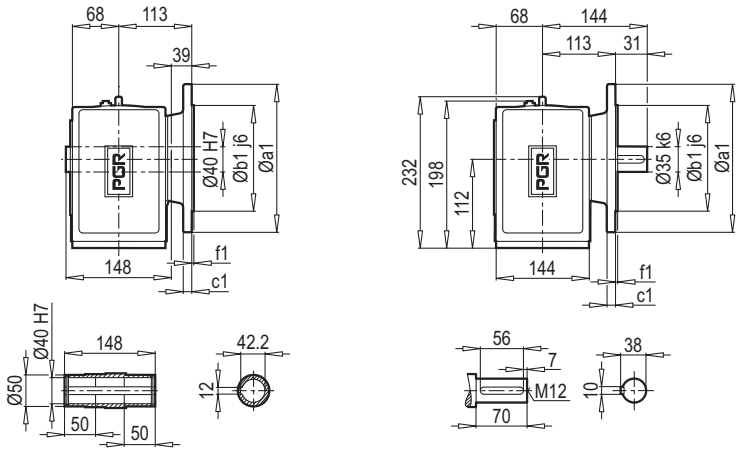


PKD G 1390 DG/B5



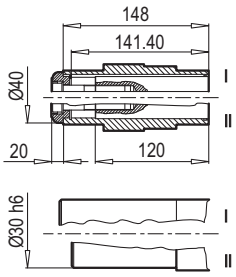
a1	b1	c1	e1	f1	s1
200	130	12	165	3.5	4x11

PKD G 1390 TMG/B5



PKD G 1390 DA/Ç

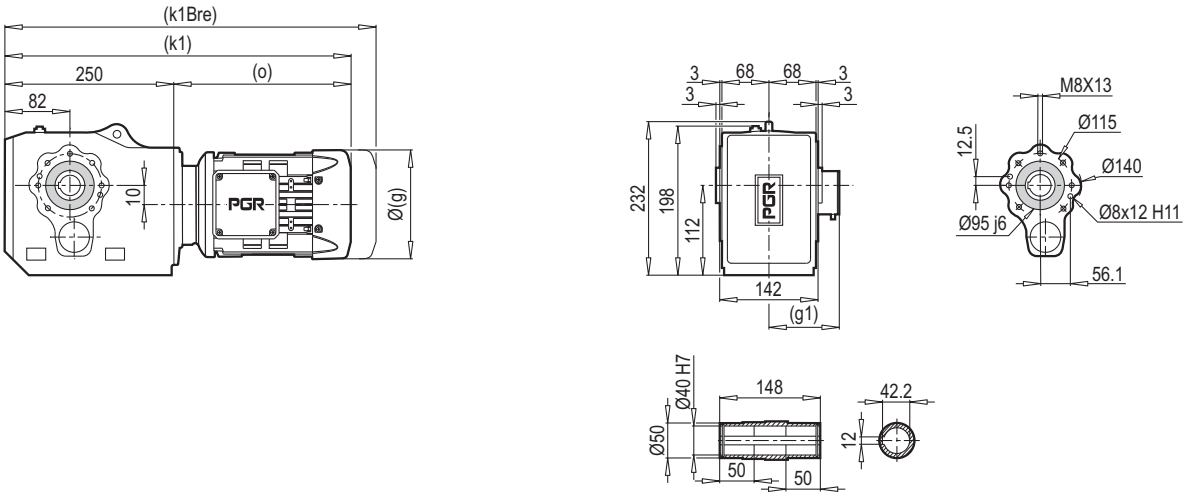
66-67



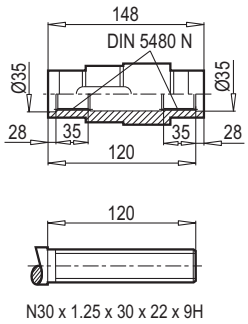
	63 M	71 M	80 M	90 S/L	100 L	112 M		
g	124	140	159	193	217	232		
g1	111	119	127	151	160	168		
k	437	479	506	529/549	577	622		
kBre	489	539	568	602/622	658	702		
o	198	240	267	290/310	338	383		

Not : (...) İşaretli olan ölçüler Motor markasına göre farklılık gösterir / Note : Dimension which is designated by (...) depends on marks of motor.

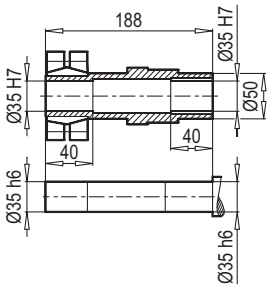
PKD G 1390 DG/B14

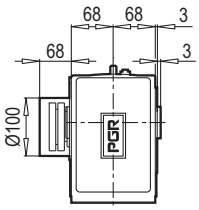


PKD G 1390 DG/DIN 5480

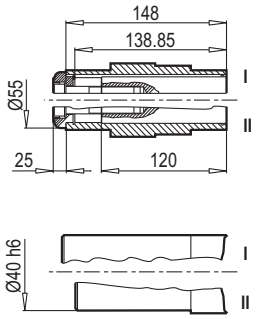


PKD G 1390 DG/KS





PKD G 1390 DG/Ç



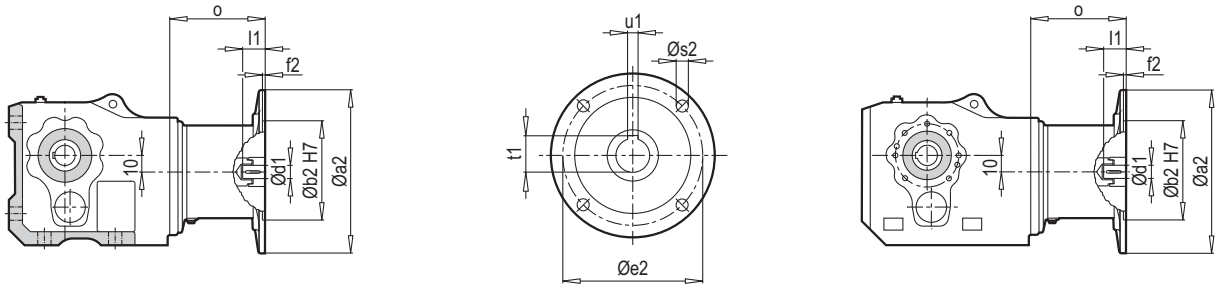
66-67

Konik sıktırma / Shrink disc				**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 35/46	400	3.58	3.11	M6x35*	10	12

	63 M	**71 M**	**80 M**	**90 S/L**	**100 L**	**112 M**		
g	124	140	159	193	217	232		
g1	111	119	127	151	160	168		
k1	448	490	517	540/560	588	633		
k1Bre	500	550	579	613/633	669	713		
o	198	240	267	290/310	338	383		

Not : (...) İşaretli olan ölçüler Motor markasına göre farklılık gösterir / Note : Dimension which is designated by (...) depends on marks of motor.

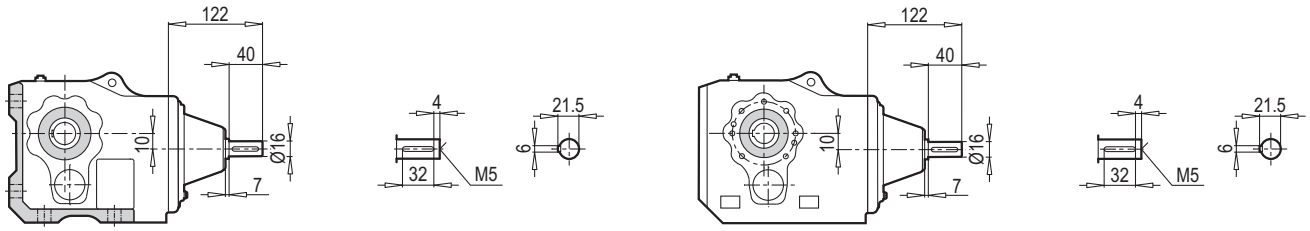
PKD G 1390 IEC



Tip / Type	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD G 1390	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

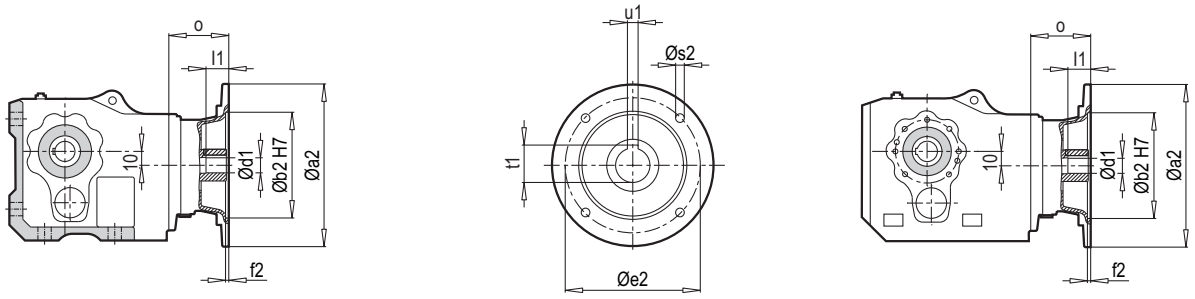
~ Kg	
IEC	PKD G 1390
63	36
71	37
80	41
90	41
100	48
112	48

PKD G 1390 W



W ~ Kg	
PKD G 1390	41

PKD G 1390 PAM B5/B14



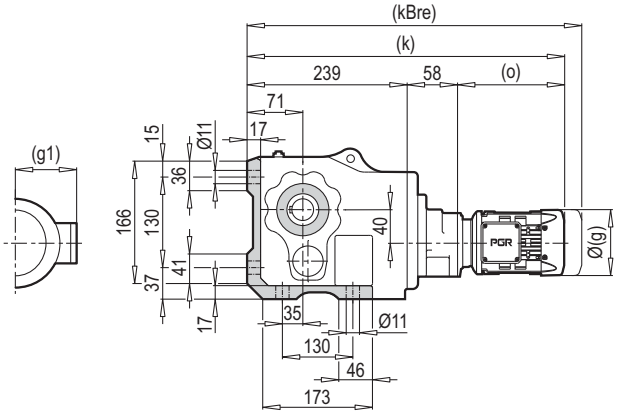
Tip / Type	PAM B5	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD G 1390	63	140	95	115	3.5	M8	11	23	12.8	4	85
	71	160	110	130	4.0	M8	14	30	16.3	5	55
	80	200	130	165	4.0	M10	19	40	21.8	6	74
	90	200	130	165	4.0	M10	24	50	27.3	8	74
	100	250	180	215	5.0	M12	28	60	31.3	8	131.5
	112	250	180	215	5.0	M12	28	60	31.3	8	131.5

~ Kg	
PAM B5	PKD G 1390
63	35
71	35
80	36
90	36
100	43
112	43

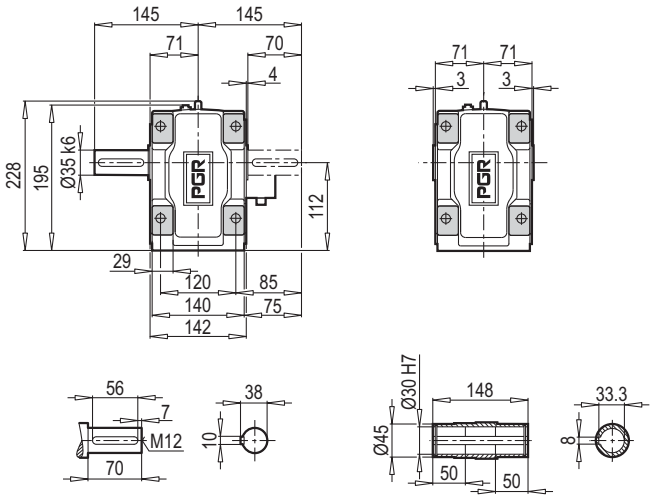
Tip / Type	PAM B14	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD G 1390	63	90	60	75	4.0	6	11	23	12.8	4	60
	71	105	70	85	4.0	7	14	30	16.3	5	55
	80	120	80	100	4.0	7	19	40	21.8	6	74
	90	140	95	115	4.0	9	24	50	27.3	8	74
	100	160	110	130	5.0	9	28	60	31.3	8	75
	112	160	110	130	5.0	9	28	60	31.3	8	75

~ Kg	
PAM B14	PKD G 1390
63	34
71	34
80	35
90	35
100	36
112	36

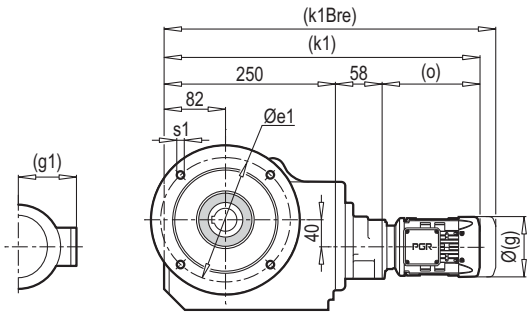
PKD G 1490 TMA



PKD G 1490 DA

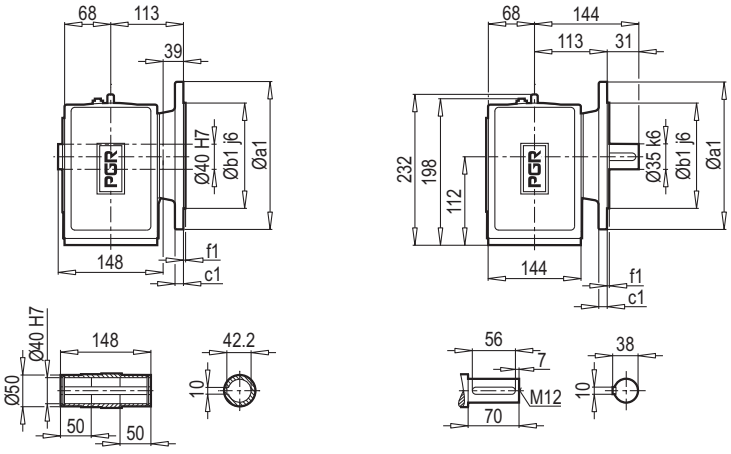


PKD G 1490 DG/B5



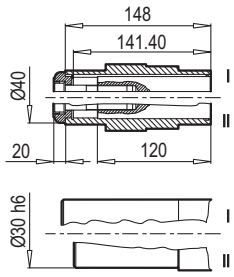
a1	b1	c1	e1	f1	s1
200	130	12	165	3.5	4x11

PKD G 1490 TMG/B5



PKD G 1490 DA/Ç

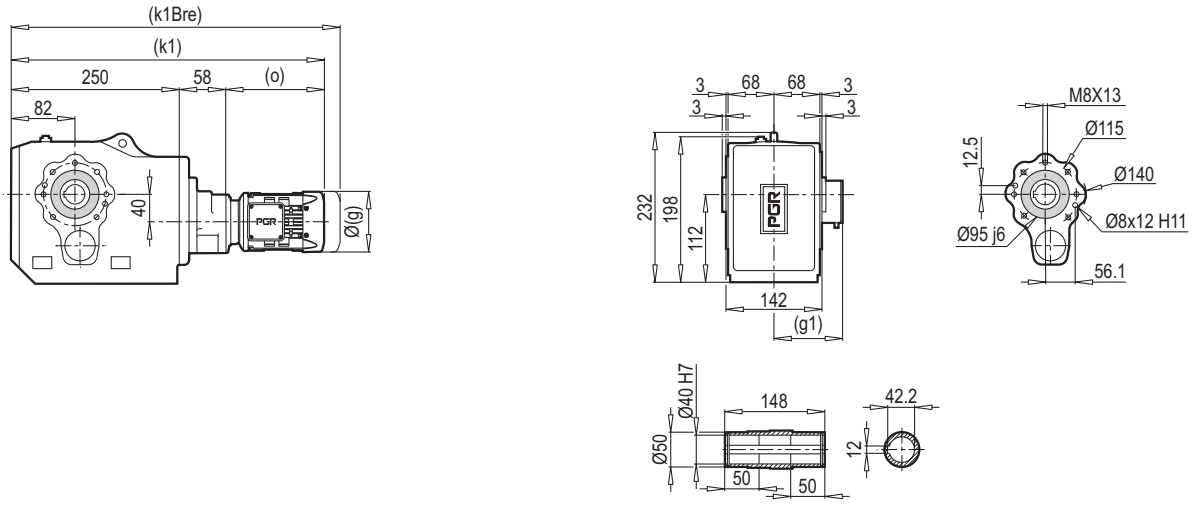
66-67



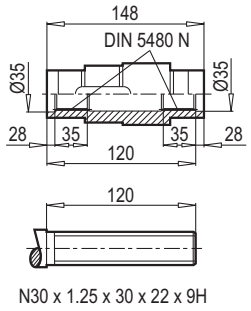
	63 M	71 M						
g	124	140						
g1	111	119						
k	495	537						
kBre	547	597						
o	198	240						

Not : (...) İşaretli olan ölçüler Motor markasına göre farklılık gösterir / Note : Dimension which is designated by (...) depends on marks of motor.

PKD G 1490 DG/B14

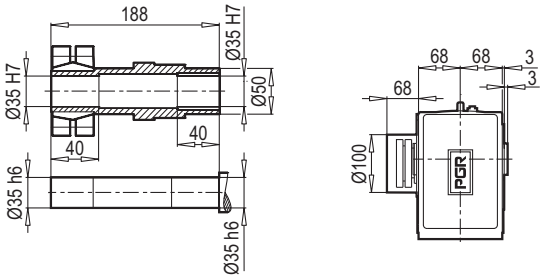


PKD G 1490 DG/DIN 5480

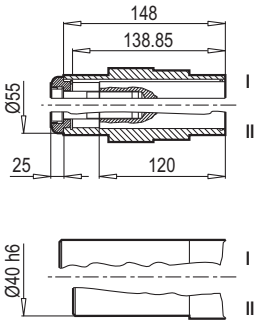


N30 x 1.25 x 30 x 22 x 9H

PKD G 1490 DG/KS



PKD G 1490 DG/Ç



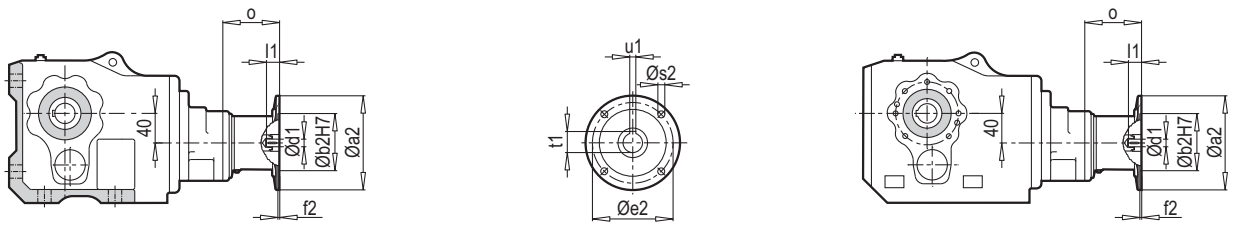
66-67

Tip/Type	Konik sıktırma / Shrink disc: M_{amax} (Nm)	s h6	s f6	Altıköşe başlı civata / Hexagonal screw DIN 931 / DIN 933* 10.9Vz: dxl	Zs	MA (Nm)
KS 35/46	400	3.58	3.11	M6x35*	10	12

	63 M	71 M						
g	124	140						
g1	111	119						
k1	506	548						
k1Bre	558	608						
o	198	240						

Not : (...) İşaretli olan ölçüler Motor markasına göre farklılık gösterir / Note : Dimension which is designated by (...) depends on marks of motor.

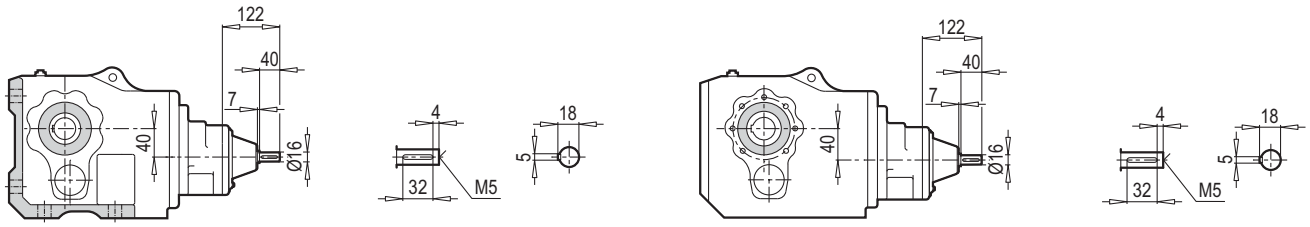
PKD G 1490 IEC



Tip / Type	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD G 1490	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

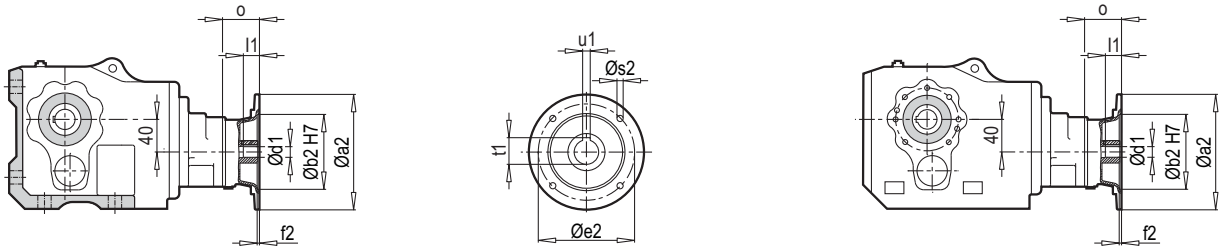
~ Kg	
IEC	PKD G 1490
63	36
71	37

PKD G 1490 W



W ~ Kg	
PKD G 1490	42

PKD G 1490 PAM B5/B14



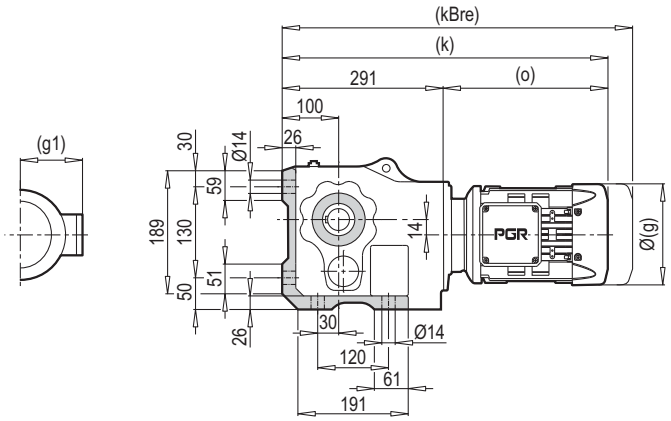
Tip / Type	PAM B5	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD G 1490	63	140	95	115	3.5	M8	11	23	12.8	4	85
	71	160	110	130	4.0	M8	14	30	16.3	5	55

~ Kg	
PAM B5	PKD G 1490
63	40
71	40

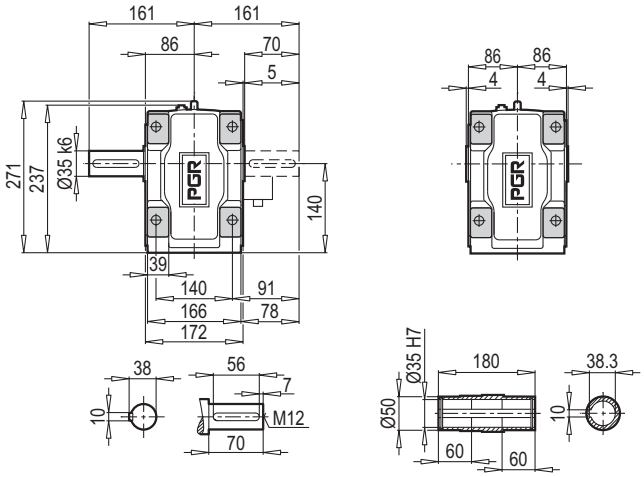
Tip / Type	PAM B14	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD G 1490	63	90	60	75	4.0	6	11	23	12.8	4	60
	71	105	70	85	4.0	7	14	30	16.3	5	55

~ Kg	
PAM B14	PKD G 1490
63	39
71	39

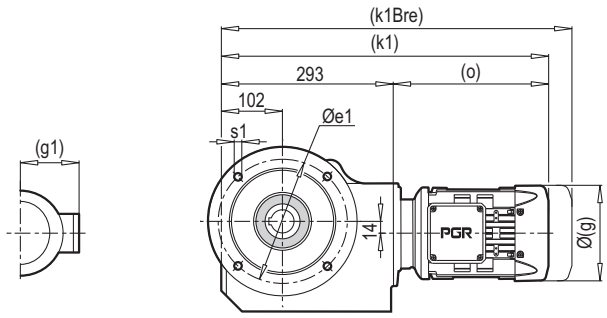
PKD 2390 TMA



PKD 2390 DA

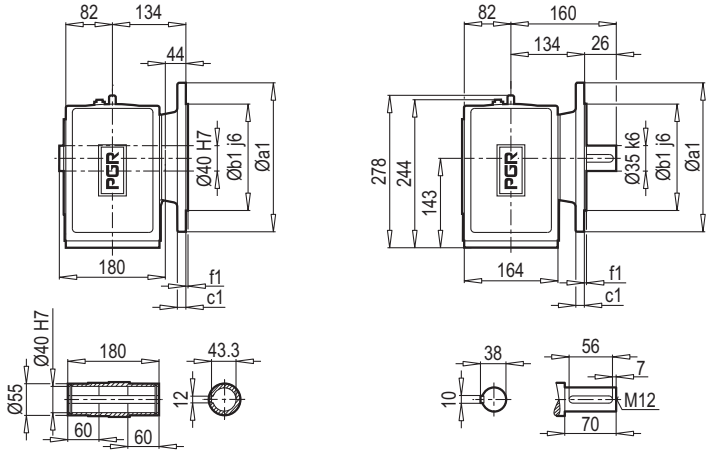


PKD 2390 DG/B5



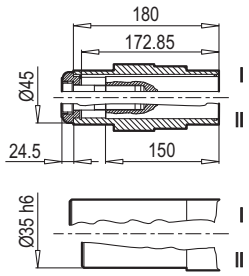
a1	b1	c1	e1	f1	s1
250	180	16	215	4	4x14

PKD 2390 TMG/B5



PKD 2390 DA/Ç

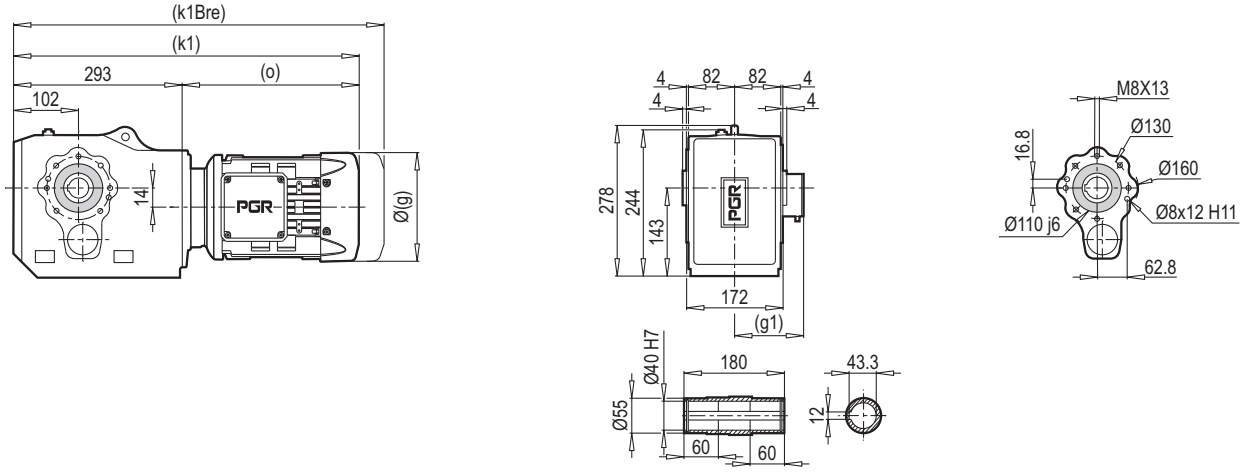
66-67



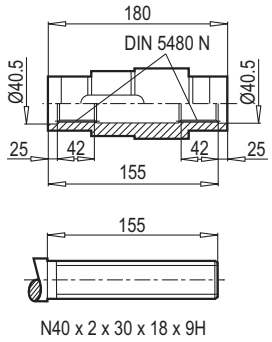
	63 M	71 M	80 M	90 S/L	100 L	112 M		
g	124	140	159	193	217	232		
g1	111	119	127	151	160	168		
k	489	531	558	581/601	629	674		
kBre	541	591	620	654/674	710	754		
o	198	240	267	290/310	338	383		

Not : (...) İşaretli olan ölçüler Motor markasına göre farklılık gösterir / Note : Dimension which is designated by (...) depends on marks of motor.

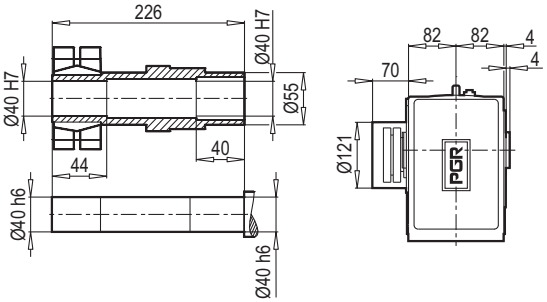
PKD 2390 DG/B14



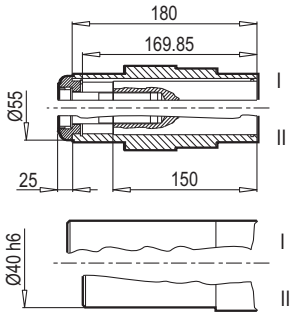
PKD 2390 DG/DIN 5480



PKD 2390 DG/KS



PKD 2390 DG/Ç



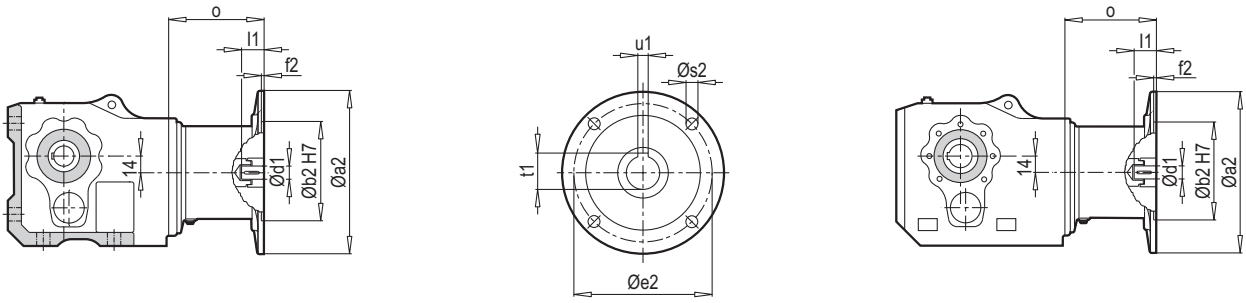
66-67

Konik sıktırma / Shrink disc				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 40/55	860	2.71	2.37	M8x40	8	30

	63 M	71 M	80 M	90 S/L	100 L	112 M		
g	124	140	159	193	217	232		
g1	111	119	127	151	160	168		
k1	491	533	560	583/603	631	676		
k1Bre	543	593	622	656/676	712	756		
o	198	240	267	290/310	338	383		

Not : (...) İşaretli olan ölçüler Motor markasına göre farklılık gösterir / Note : Dimension which is designated by (...) depends on marks of motor.

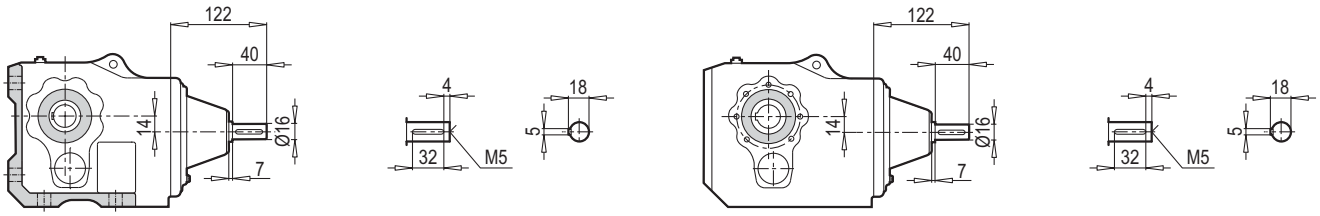
PKD 2390 IEC



Tip / Type	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD 2390	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

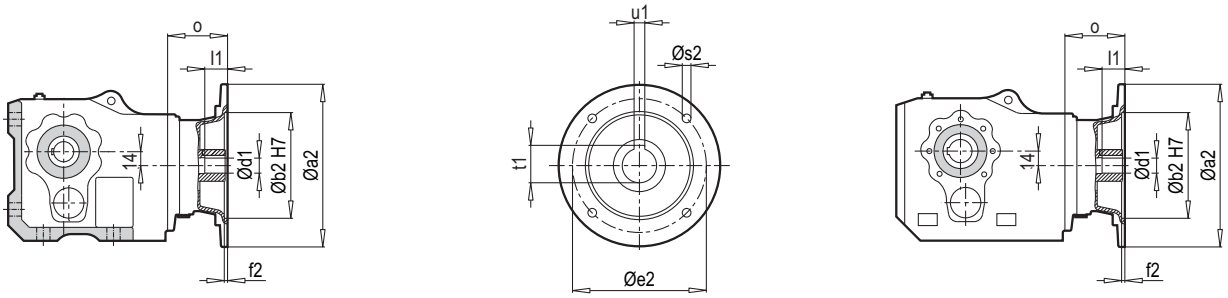
~ Kg	
IEC	PKD 2390
63	36
71	37
80	41
90	41
100	48
112	48

PKD 2390 W



W ~ Kg	
PKD 2390	44

PKD 2390 PAM B5/B14



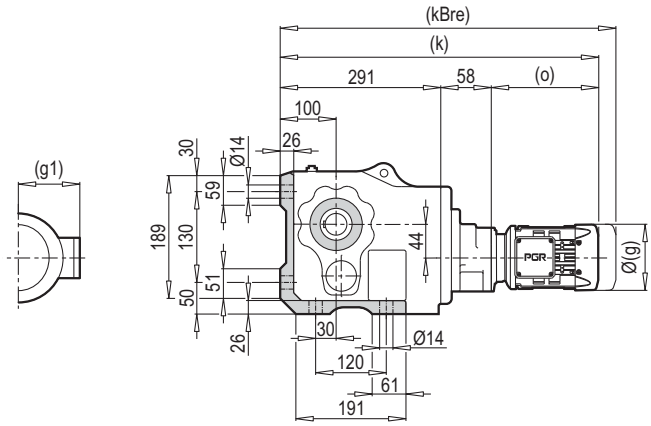
Tip / Type	PAM B5	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD 2390	63	140	95	115	3.5	M8	11	23	12.8	4	85
	71	160	110	130	4.0	M8	14	30	16.3	5	55
	80	200	130	165	4.0	M10	19	40	21.8	6	74
	90	200	130	165	4.0	M10	24	50	27.3	8	74
	100	250	180	215	5.0	M12	28	60	31.3	8	131.5
	112	250	180	215	5.0	M12	28	60	31.3	8	131.5

~ Kg	
PAM B5	PKD 2390
63	42
71	42
80	43
90	43
100	50
112	50

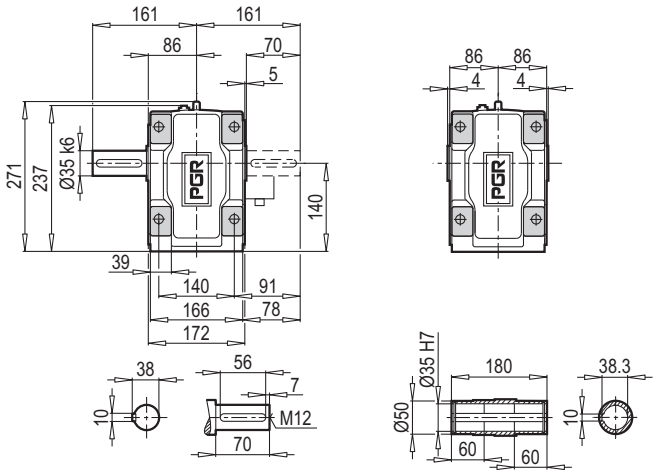
Tip / Type	PAM B14	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD 2390	63	90	60	75	4.0	6	11	23	12.8	4	60
	71	105	70	85	4.0	7	14	30	16.3	5	55
	80	120	80	100	4.0	7	19	40	21.8	6	74
	90	140	95	115	4.0	9	24	50	27.3	8	74
	100	160	110	130	5.0	9	28	60	31.3	8	75
	112	160	110	130	5.0	9	28	60	31.3	8	75

~ Kg	
PAM B14	PKD 2390
63	41
71	41
80	42
90	42
100	43
112	43

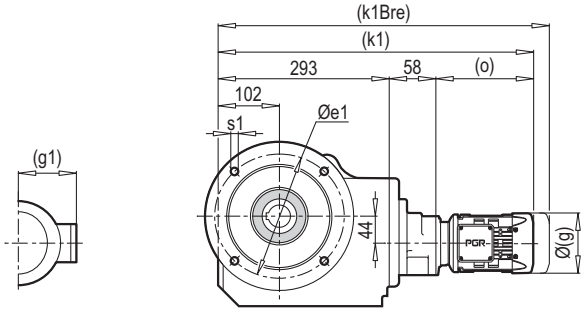
PKD 2490 TMA



PKD 2490 DA

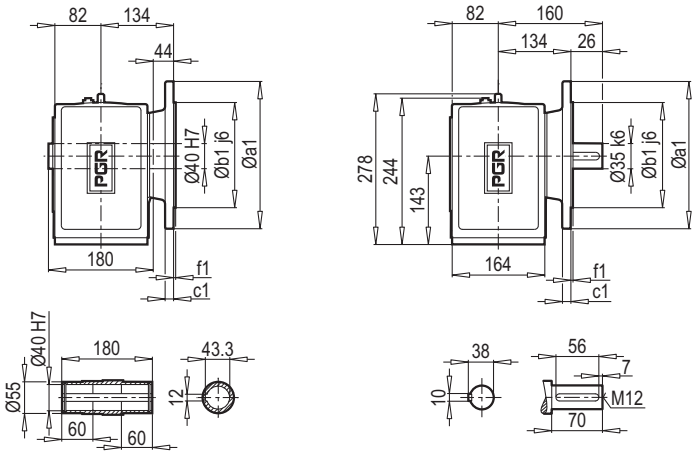


PKD 2490 DG/B5



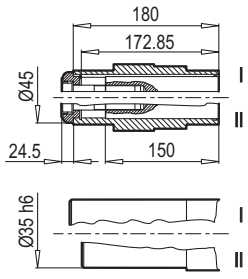
a1	b1	c1	e1	f1	s1
250	180	16	215	4	4x14

PKD 2490 TMG/B5



PKD 2490 DA/Ç

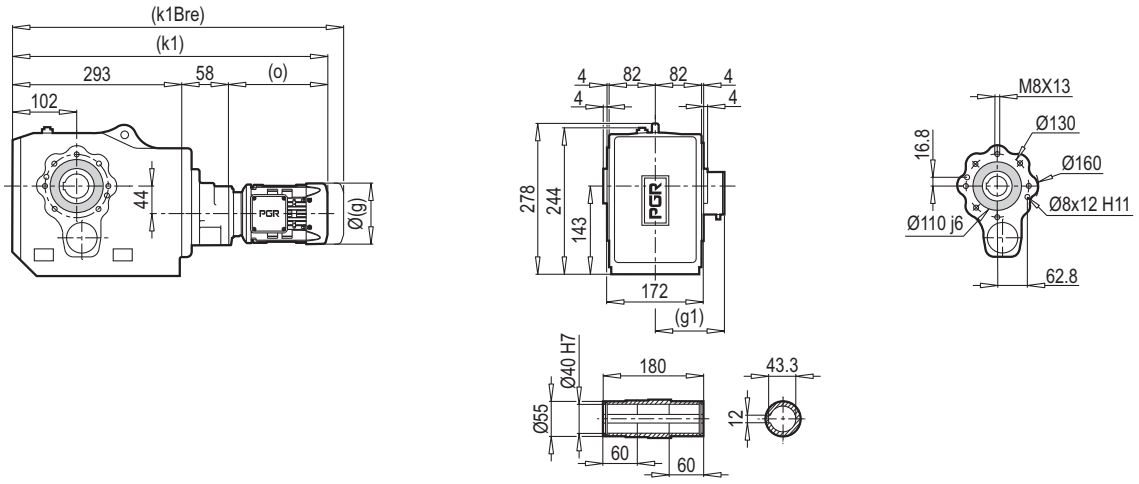
66-67



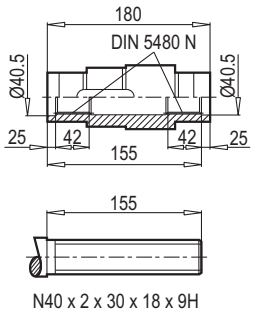
	63 M	71 M						
g	124	140						
g1	111	119						
k	547	589						
kBre	599	649						
o	198	240						

Not : (...) İşaretli olan ölçüler Motor markasına göre farklılık gösterir / Note : Dimension which is designated by (...) depends on marks of motor.

PKD 2490 DG/B14

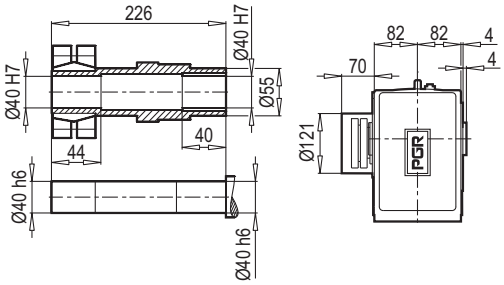


PKD 2490 DG/DIN 5480

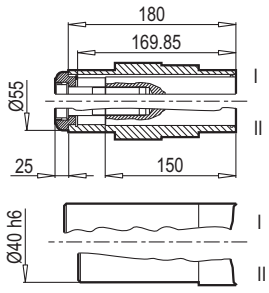


N40 x 2 x 30 x 18 x 9H

PKD 2490 DG/KS



PKD 2490 DG/Ç



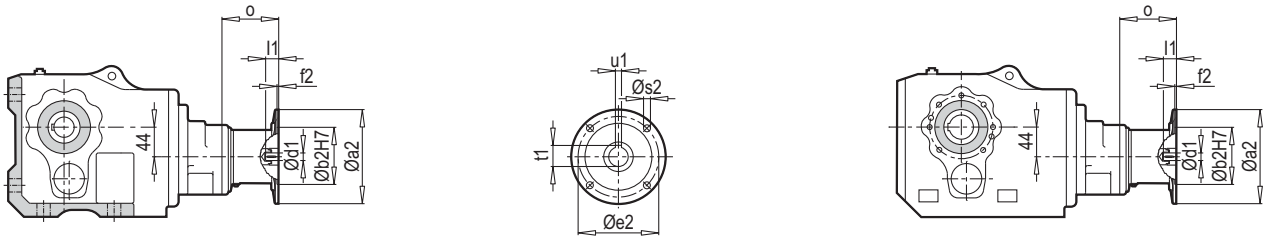
66-67

Konik sıktırma / Shrink disc				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 40/55	860	2.71	2.37	M8x40	8	30

	63 M	71 M						
g	124	140						
g1	111	119						
k1	549	591						
k1Bre	601	651						
o	198	240						

Not : (...) İşaretli olan ölçüler Motor markasına göre farklılık gösterir / Note : Dimension which is designated by (...) depends on marks of motor.

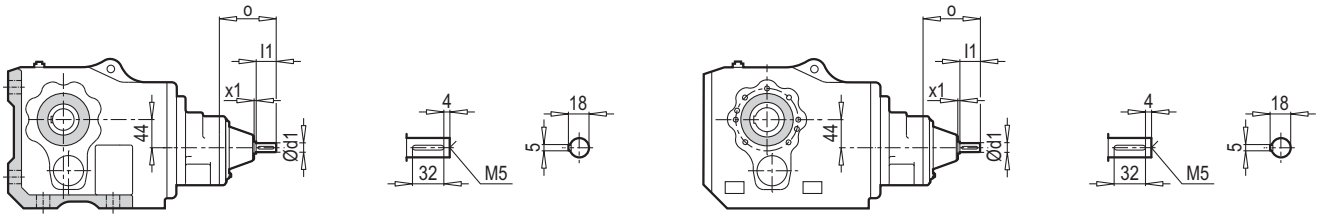
PKD 2490 IEC



Tip / Type	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD 2490	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

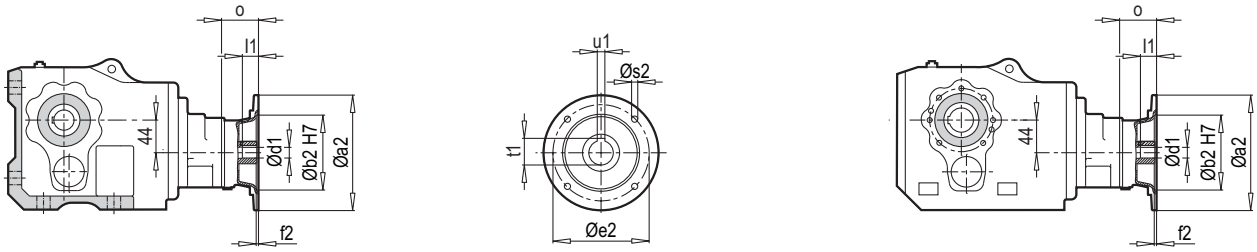
~ Kg	
IEC	PKD 2490
63	36
71	37

PKD 2490 W



W ~ Kg	
PKD 2490	49

PKD 2490 PAM B5/B14



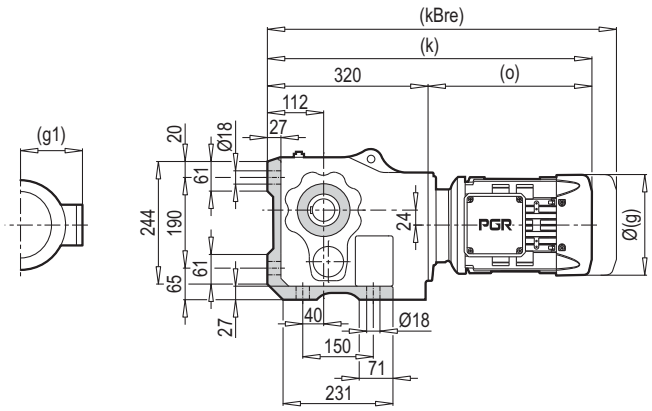
Tip / Type	PAM B5	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD 2490	63	140	95	115	3.5	M8	11	23	12.8	4	85
	71	160	110	130	4.0	M8	14	30	16.3	5	55

~ Kg	
PAM B5	PKD 2490
63	47
71	47

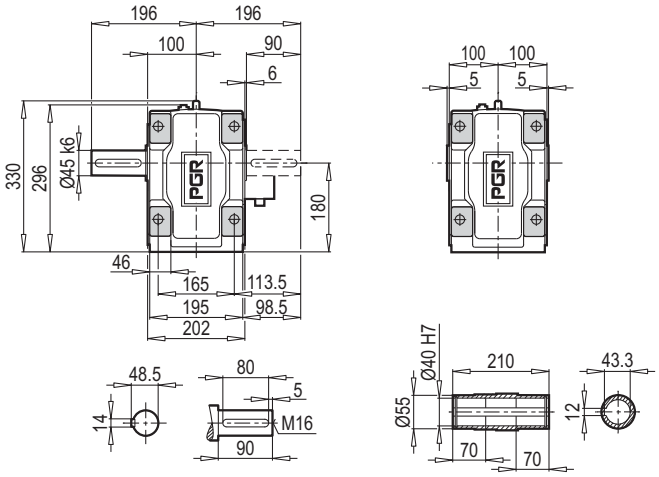
Tip / Type	PAM B14	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD 2490	63	90	60	75	4.0	6	11	23	12.8	4	60
	71	105	70	85	4.0	7	14	30	16.3	5	55

~ Kg	
PAM B14	PKD 2490
63	46
71	46

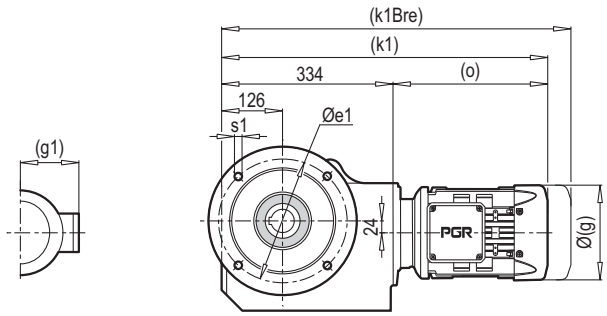
PKD 3390 TMA



PKD 3390 DA

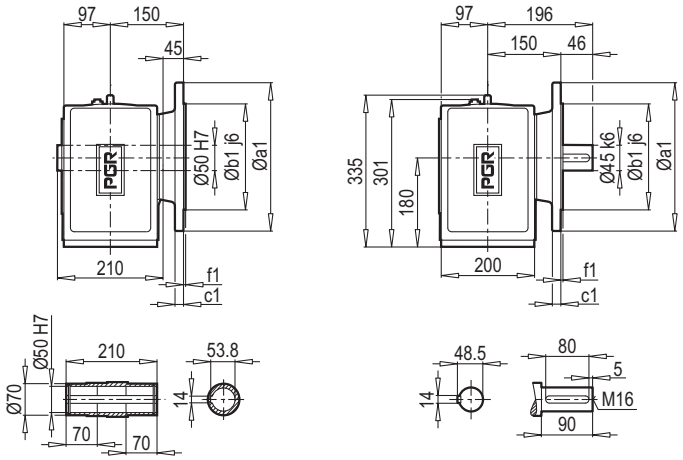


PKD 3390 DG/B5



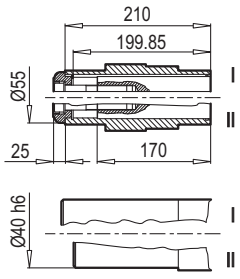
a1	b1	c1	e1	f1	s1
250	180	16	215	4	4x14
300	230	20	265	4	4x14

PKD 3390 TMG/B5



PKD 3390 DA/Ç

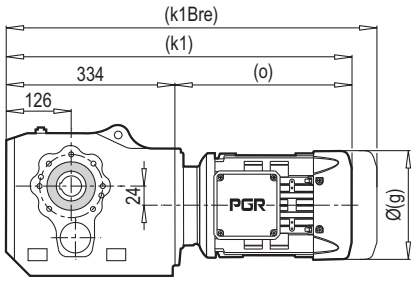
66-67

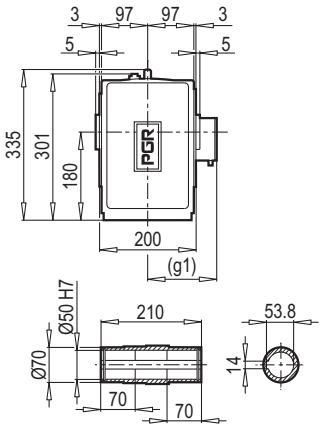


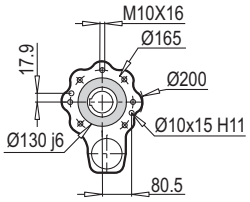
	71 M	80 M	90 S/L	100 L	112 M	132 S/M		
g	140	159	193	217	232	279		
g1	119	127	151	160	168	182		
k	556	582	605/625	653	698	705/740		
kBre	616	644	678/698	734	778	813/881		
o	236	262	285/305	333	378	385/420		

Not : (...) İşaretli olan ölçüler Motor markasına göre farklılık gösterir / Note : Dimension which is designated by (...) depends on marks of motor.

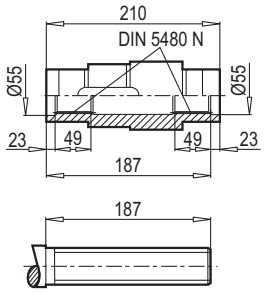
PKD 3390 DG/B14





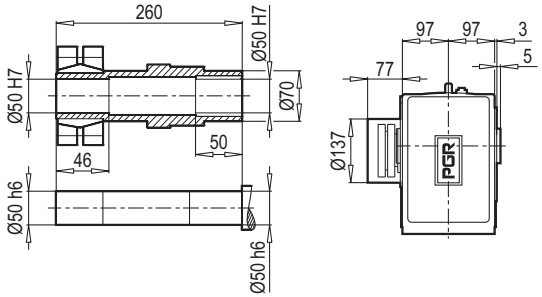


PKD 3390 DG/DIN 5480

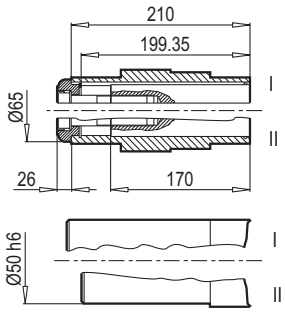


N50 x 2 x 30 x 24 x 9H

PKD 3390 DG/KS



PKD 3390 DG/Ç



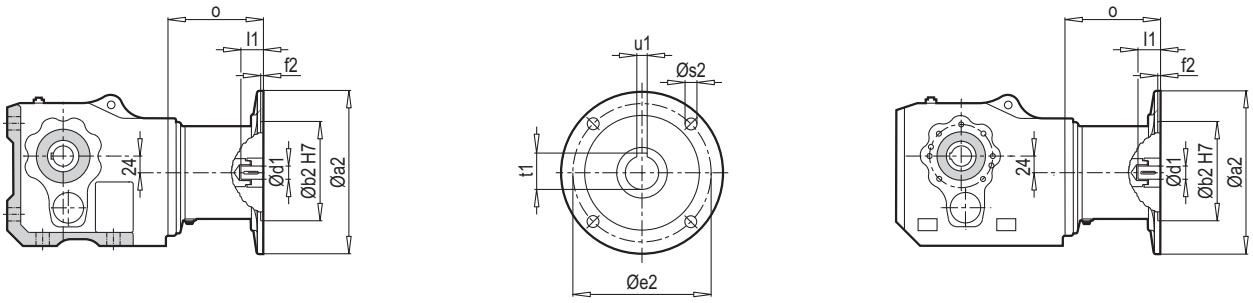
66-67

Tip/Type	Konik sıktırma / Shrink disc			Altıköşe başlı civata / Hexagonal screw DIN 931 / DIN 933* 10.9Vz		
	M_{amax} (Nm)	s^{h6}	s^{f6}	dxl	Zs	MA (Nm)
KS 50/62	1550	2.83	2.63	M8x40	10	30

	71 M	80 M	90 S/L	100 L	112 M	132 S/M		
g	140	159	193	217	232	279		
g1	119	127	151	160	168	182		
k1	570	596	619/639	667	712	719/754		
k1Bre	630	658	692/712	748	792	827/895		
o	236	262	285/305	333	378	385/420		

Not : (...) İşaretli olan ölçüler Motor markasına göre farklılık gösterir / Note : Dimension which is designated by (...) depends on marks of motor.

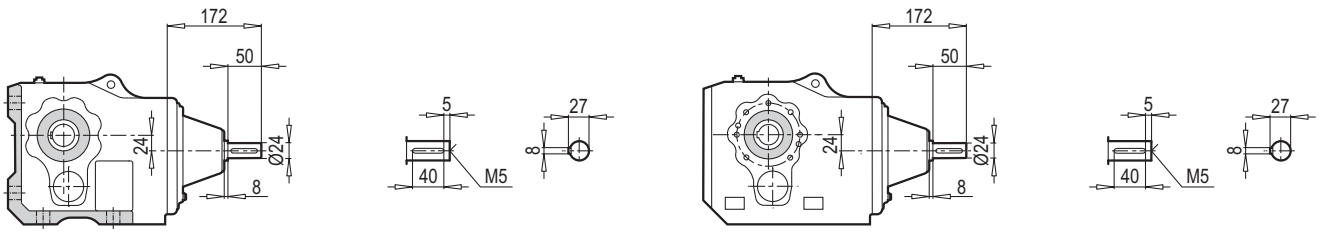
PKD 3390 IEC



Tip / Type	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD 3390	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

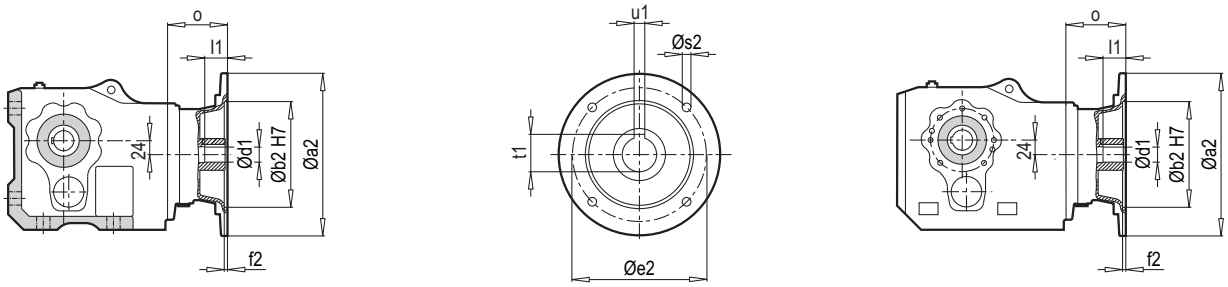
~ Kg	
IEC	PKD 3390
71	69
80	73
90	73
100	77
112	77
132	86

PKD 3390 W



W ~ Kg	
PKD 3390	71

PKD 3390 PAM B5/B14



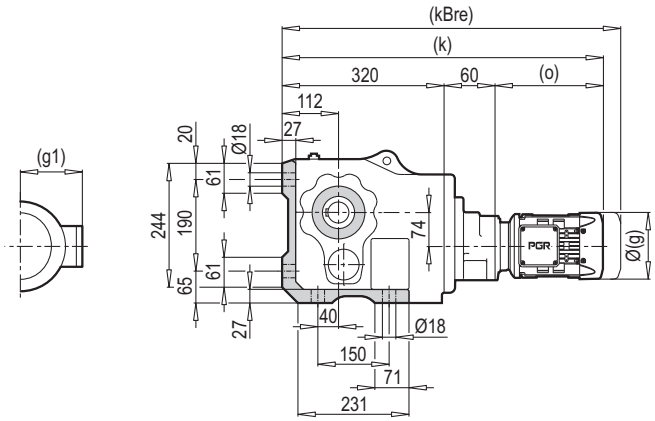
Tip / Type	PAM B5	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD 3390	71	160	110	130	4.0	M8	14	30	16.3	5	88
	80	200	130	165	4.0	M10	19	40	21.8	6	72
	90	200	130	165	4.0	M10	24	50	27.3	8	72
	100	250	180	215	5.0	M12	28	60	31.3	8	75
	112	250	180	215	5.0	M12	28	60	31.3	8	75
	132	300	230	265	5.0	M12	38	80	41.3	10	94

~ Kg	
PAM B5	PKD 3390
71	65
80	66
90	66
100	67
112	67
132	77

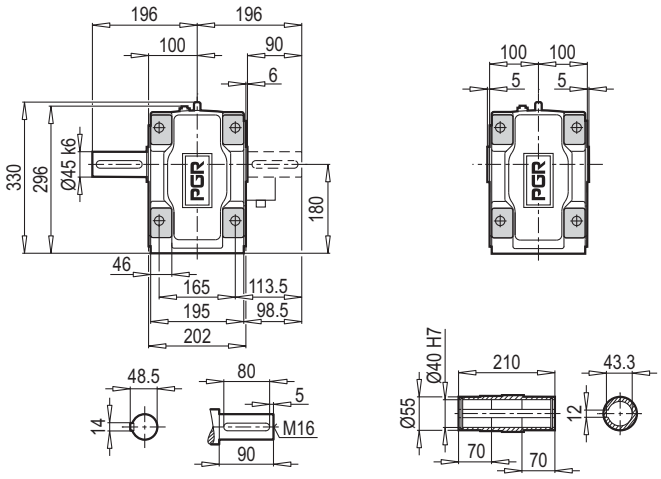
Tip / Type	PAM B14	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD 3390	71	105	70	85	4.0	7	14	30	16.3	5	88
	80	120	80	100	4.0	7	19	40	21.8	6	72
	90	140	95	115	4.0	9	24	50	27.3	8	72
	100	160	110	130	5.0	9	28	60	31.3	8	75
	112	160	110	130	5.0	9	28	60	31.3	8	75
	132	200	130	165	5.0	11	38	80	41.3	10	94

~ Kg	
PAM B14	PKD 3390
71	63
80	64
90	64
100	66
112	66
132	70

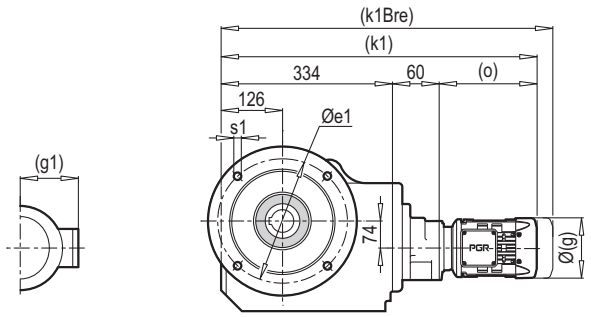
PKD 3490 TMA



PKD 3490 DA

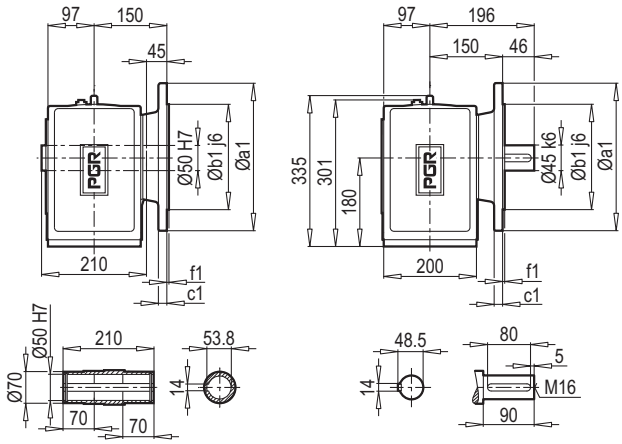


PKD 3490 DG/B5



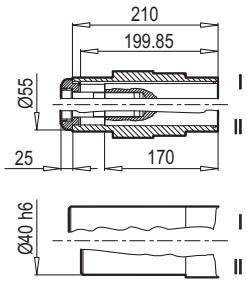
a1	b1	c1	e1	f1	s1
250	180	16	215	4	4x14
300	230	20	265	4	4x14

PKD 3490 TMG/B5



PKD 3490 DA/Ç

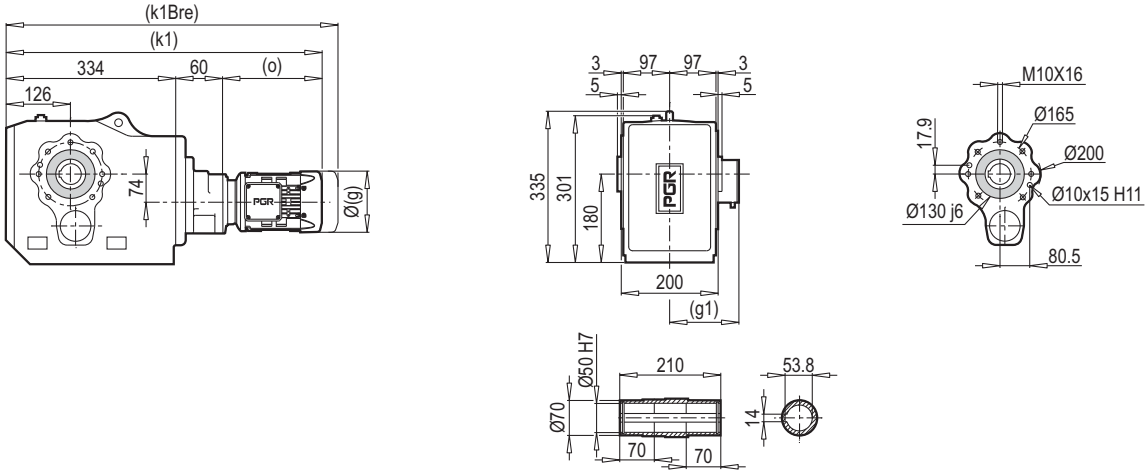
66-67



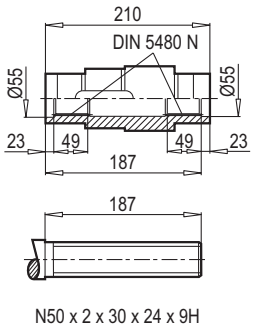
	63 M	71 M	80 M	90 S/L				
g	124	140	159	193				
g1	111	119	127	151				
k	578	620	647	670/690				
kBre	630	680	709	743/763				
o	198	240	267	290/310				

Not : (...) İşaretli olan ölçüler Motor markasına göre farklılık gösterir / Note : Dimension which is designated by (...) depends on marks of motor.

PKD 3490 DG/B14

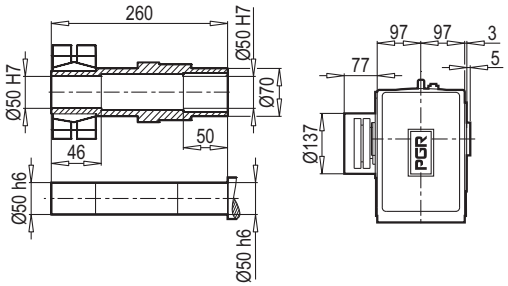


PKD 3490 DG/DIN 5480

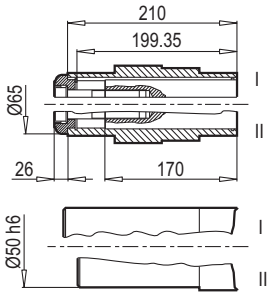


N50 x 2 x 30 x 24 x 9H

PKD 3490 DG/KS



PKD 3490 DG/Ç



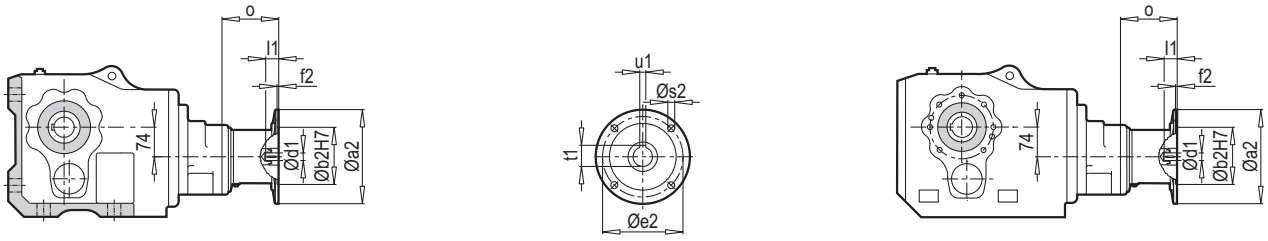
66-67

Konik sıktırma / Shrink disc				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 50/62	1550	2.83	2.63	M8x40	10	30

	63 M	71 M	80 M	90 S/L				
g	124	140	159	193				
g1	111	119	127	151				
k1	592	634	661	684/704				
k1Bre	644	694	723	757/777				
o	198	240	267	290/310				

Not : (...) İşaretli olan ölçüler Motor markasına göre farklılık gösterir / Note : Dimension which is designated by (...) depends on marks of motor.

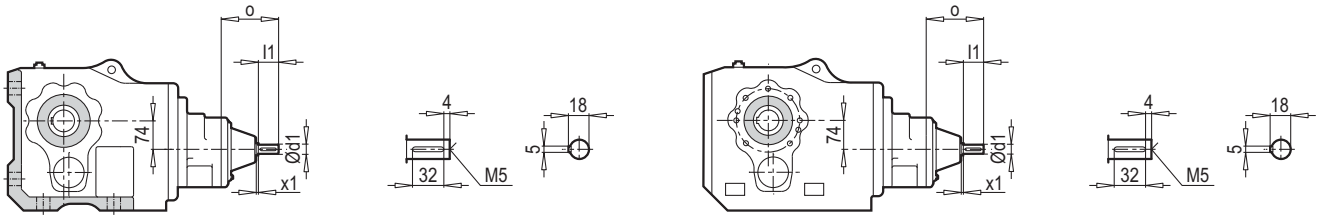
PKD 3490 IEC



Tip / Type	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD 3490	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

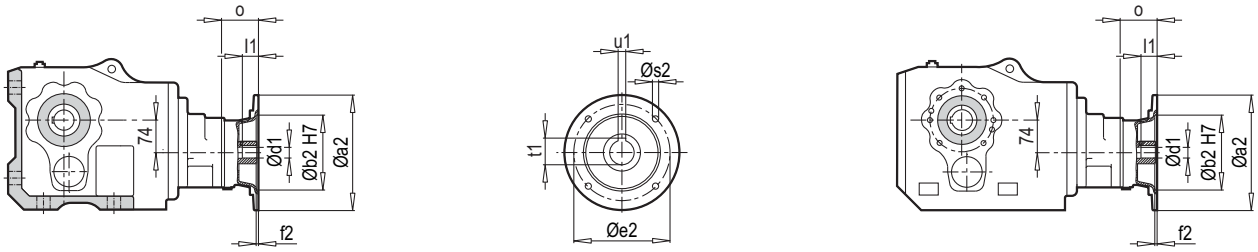
~ Kg	
IEC	PKD 3490
63	74
71	75
80	78
90	78

PKD 3490 W



W ~ Kg	
PKD 3490	73

PKD 3490 PAM B5/B14



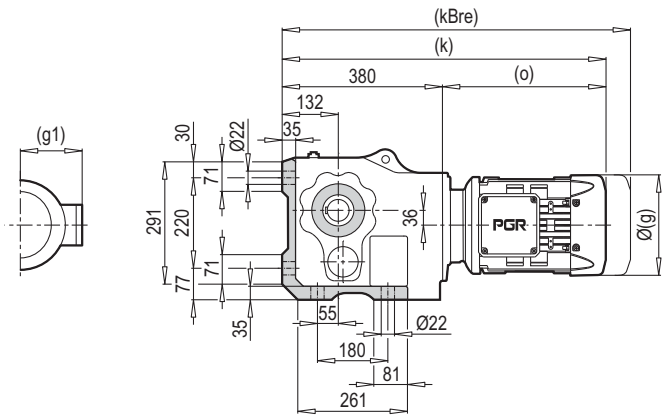
Tip / Type	PAM B5	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD 3490	63	140	95	115	3.5	M8	11	23	12.8	4	85
	71	160	110	130	4.0	M8	14	30	16.3	5	55
	80	200	130	165	4.0	M10	19	40	21.8	6	74
	90	200	130	165	4.0	M10	24	50	27.3	8	74

~ Kg	
PAM B5	PKD 3490
63	70
71	70
80	71
90	71

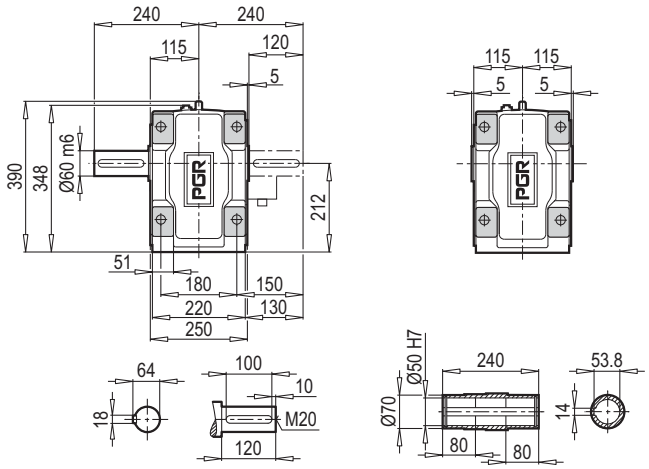
Tip / Type	PAM B14	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD 3490	63	90	60	75	4.0	6	11	23	12.8	4	60
	71	105	70	85	4.0	7	14	30	16.3	5	55
	80	120	80	100	4.0	7	19	40	21.8	6	74
	90	140	95	115	4.0	9	24	50	27.3	8	74

~ Kg	
PAM B14	PKD 3490
63	69
71	69
80	70
90	70

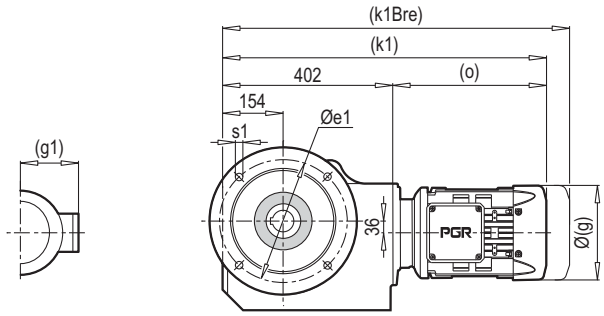
PKD 4390 TMA



PKD 4390 DA

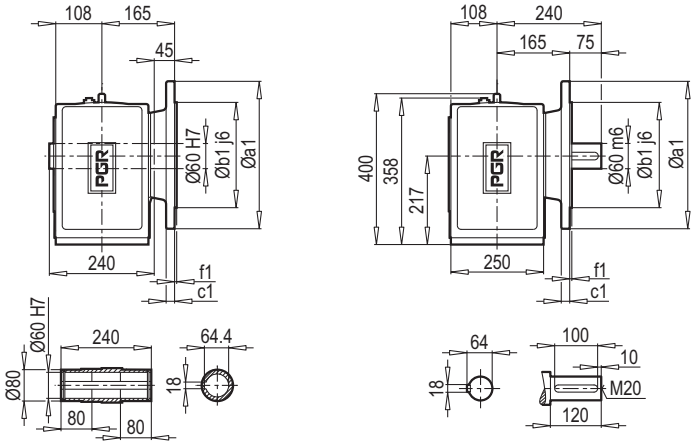


PKD 4390 DG/B5



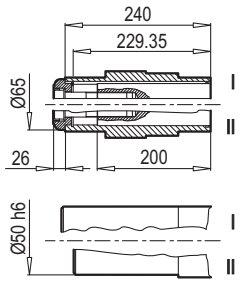
a1	b1	c1	e1	f1	s1
350	250	20	300	5	4x18

PKD 4390 TMG/B5



PKD 4390 DA/Ç

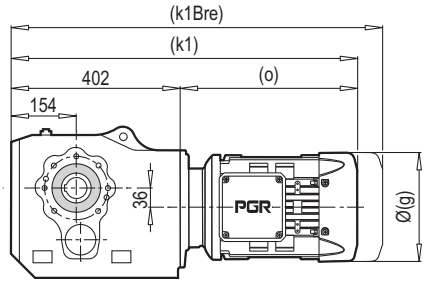
66-67

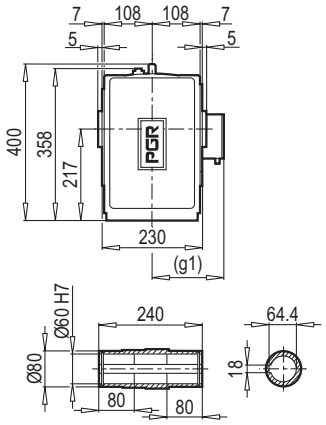


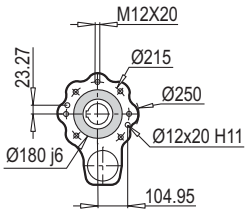
	90 S/L	100 L	112 M	132 S/M	160 M/L			
g	193	217	232	279	323			
g1	151	160	168	182	200			
k	645/665	693	738	745/780	885			
kBre	718/738	774	818	853/921	1037			
o	265/285	313	358	365/400	505			

Not : (...) İşaretli olan ölçüler Motor markasına göre farklılık gösterir / Note : Dimension which is designated by (...) depends on marks of motor.

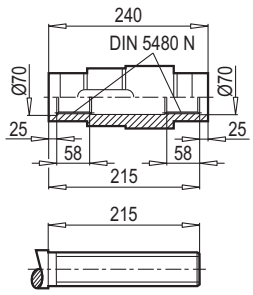
PKD 4390 DG/B14





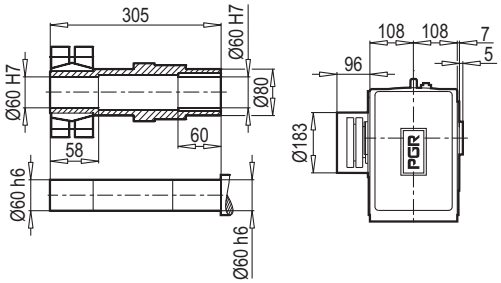


PKD 4390 DG/DIN 5480

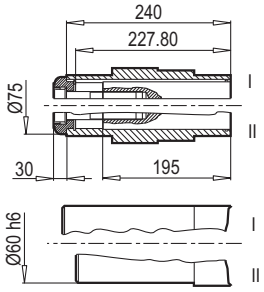


N65 x 2 x 30 x 31 x 9H

PKD 4390 DG/KS



PKD 4390 DG/Ç



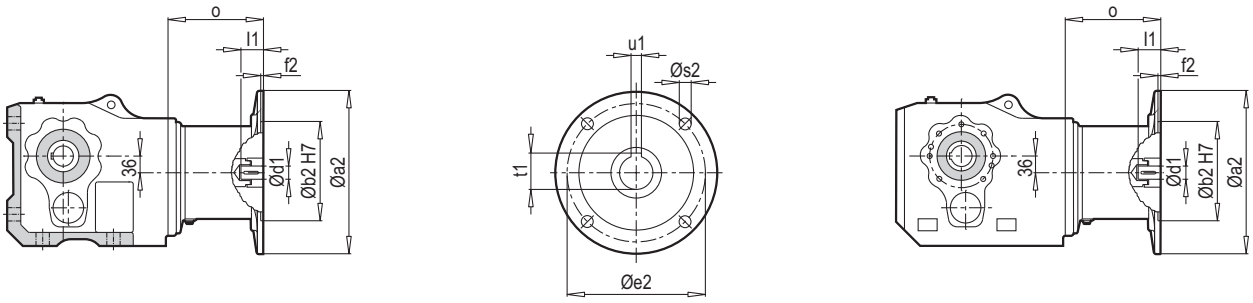
66-67

Konik sıktırma / Shrink disc				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 60/76	2800	2.90	2.69	M10x50	10	59

	90 S/L	100 L	112 M	132 S/M	160 M/L			
g	193	217	232	279	323			
g1	151	160	168	182	200			
k1	667/687	715	760	767/802	907			
k1Bre	740/760	796	840	875/943	1059			
o	265/285	313	358	365/400	505			

Not : (...) İşaretli olan ölçüler Motor markasına göre farklılık gösterir / Note : Dimension which is designated by (...) depends on marks of motor.

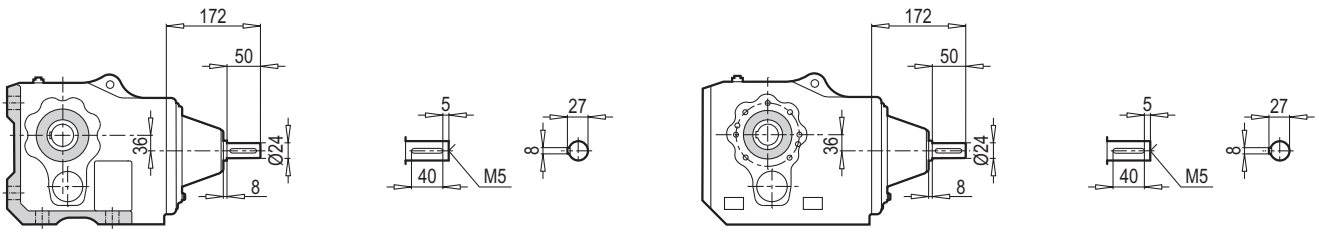
PKD 4390 IEC



Tip / Type	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD 4390	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	1210	194

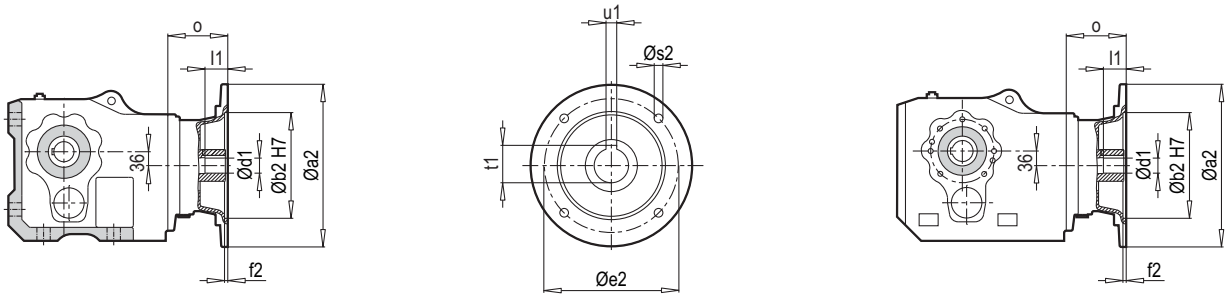
~ Kg	
IEC	PKD 4390
90	126
100	133
112	133
132	148
160	149

PKD 4390 W



W ~ Kg	
PKD 4390	131

PKD 4390 PAM B5/B14



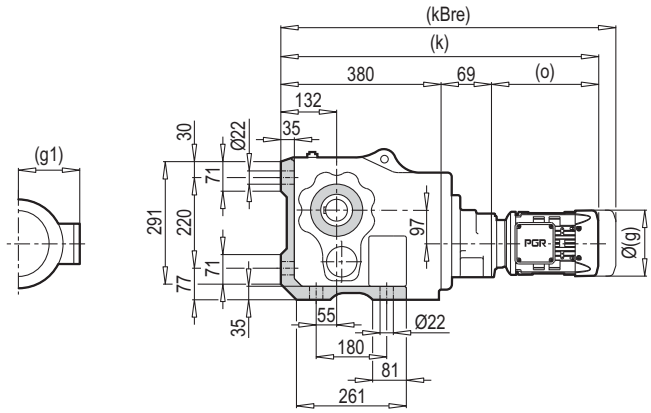
Tip / Type	PAM B5	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD 4390	90	200	130	165	4.0	M10	24	50	27.3	8	72
	100	250	180	215	5.0	M12	28	60	31.3	8	75
	112	250	180	215	5.0	M12	28	60	31.3	8	75
	132	300	230	265	5.0	M12	38	80	41.3	10	94
	160	350	250	300	6.0	M16	42	110	45.3	12	120

~ Kg	
PAM B5	PKD 4390
90	116
100	117
112	117
132	126
160	134

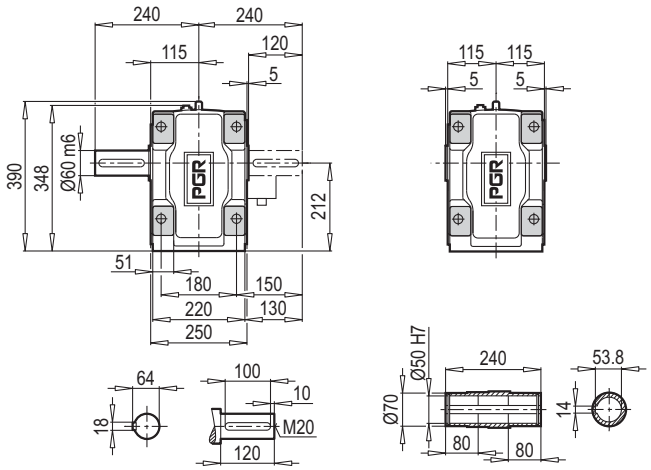
Tip / Type	PAM B14	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD 4390	90	140	95	115	4.0	9	24	50	27.3	8	72
	100	160	110	130	5.0	9	28	60	31.3	8	75
	112	160	110	130	5.0	9	28	60	31.3	8	75
	132	200	130	165	5.0	11	38	80	41.3	10	94

~ Kg	
PAM B14	PKD 4390
90	115
100	116
112	116
132	121

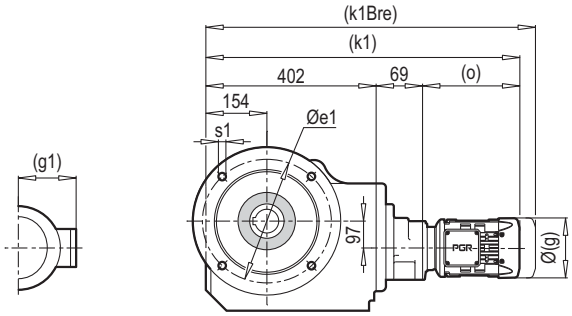
PKD 4490 TMA



PKD 4490 DA

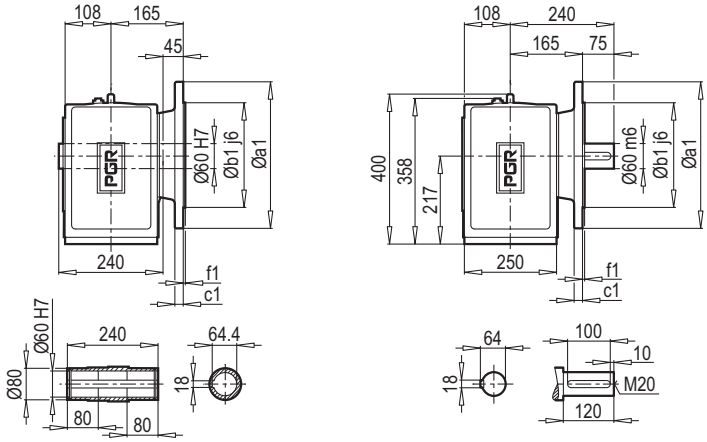


PKD 4490 DG/B5



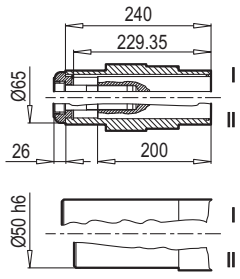
a1	b1	c1	e1	f1	s1
350	250	20	300	5	4x18

PKD 4490 TMG/B5



PKD 4490 DA/Ç

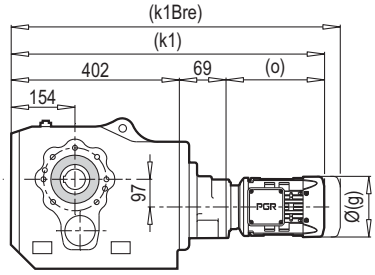
66-67

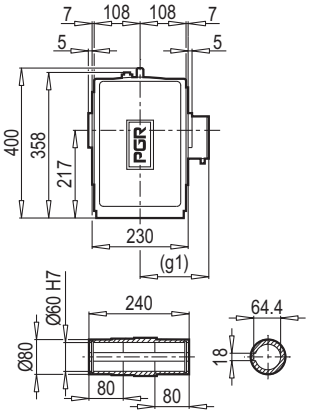


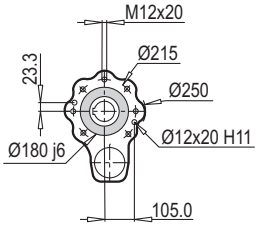
	71 M	80 M	90 S/L	100L		
g	140	159	193	217		
g1	119	127	151	160		
k	685	711	734/754	782		
kBre	745	773	807/827	863		
o	236	262	285/305	333		

Not : (...) İşaretli olan ölçüler Motor markasına göre farklılık gösterir / Note : Dimension which is designated by (...) depends on marks of motor.

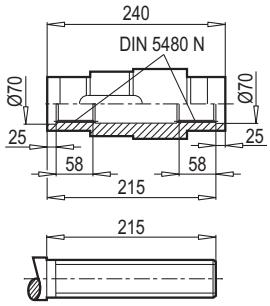
PKD 4490 DG / B14 ...





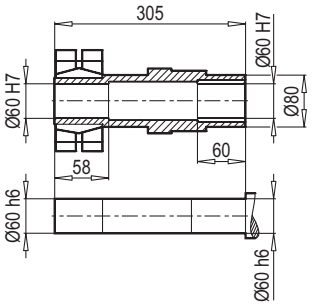


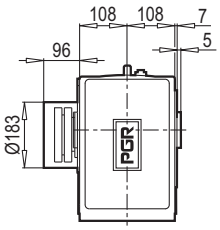
PKD 4490 DG/DIN 5480



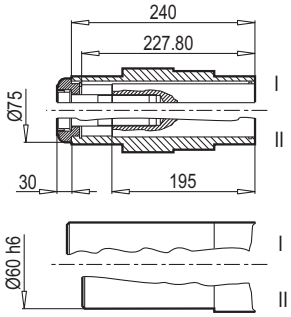
N65 x 2 x 30 x 31 x 9H

PKD 4490 DG/KS





PKD 4490 DG/Ç



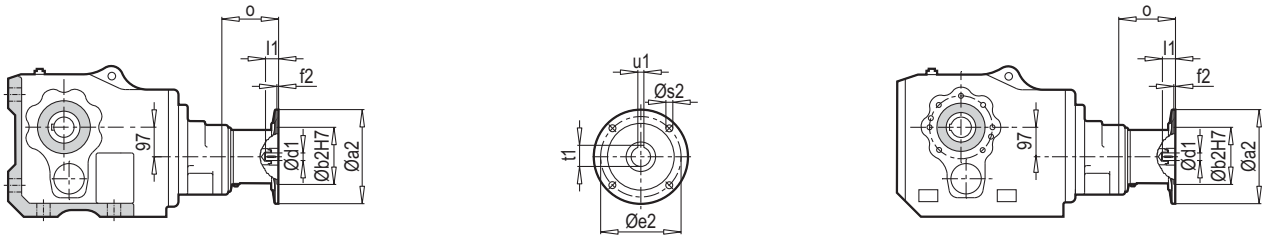
66-67

Konik sıktırma / Shrink disc				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 60/76	2800	2.90	2.69	M10x50	10	59

	71 M	80 M	90 S/L	100L				
g	140	159	193	217				
g1	119	127	151	160				
k1	707	733	756/776	804				
k1Bre	767	795	829/849	885				
o	236	262	285/305	333				

Not : (...) İşaretli olan ölçüler Motor markasına göre farklılık gösterir / Note : Dimension which is designated by (...) depends on marks of motor.

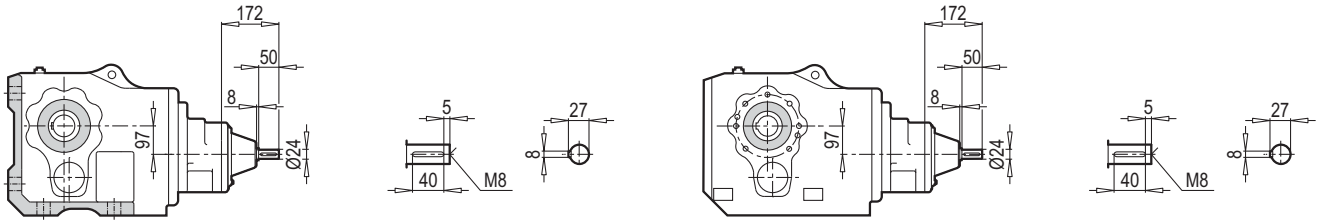
PKD 4490 IEC



Tip / Type	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD 4490	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	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

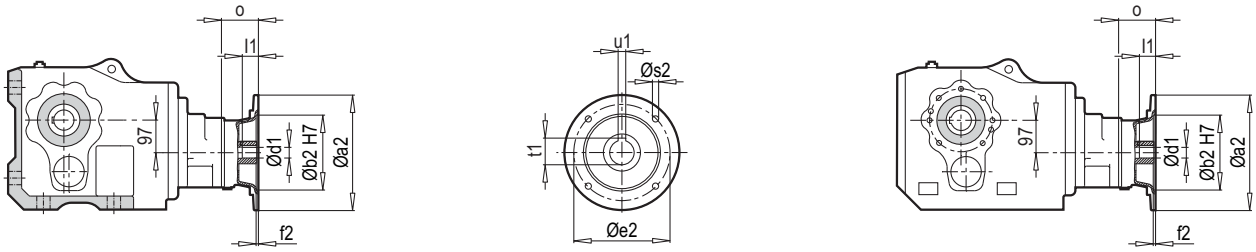
~ Kg	
IEC	PKD 4490
71	134
80	139
90	139
100	143
112	143

PKD 4490 W



W ~ Kg	
PKD 4490	137

PKD 4490 PAM B5/B14



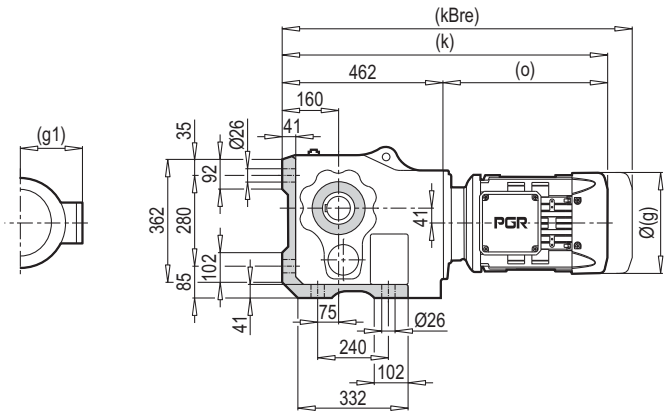
Tip / Type	PAM B5	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD 4490	71	160	110	130	4.0	M8	14	30	16.3	5	88
	80	200	130	165	4.0	M10	19	40	21.8	6	72
	90	200	130	165	4.0	M10	24	50	27.3	8	72
	100	250	180	215	5.0	M12	28	60	31.3	8	75
	112	250	180	215	5.0	M12	28	60	31.3	8	75

~ Kg	
PAM B5	PKD 4490
71	127
80	128
90	128
100	129
112	129

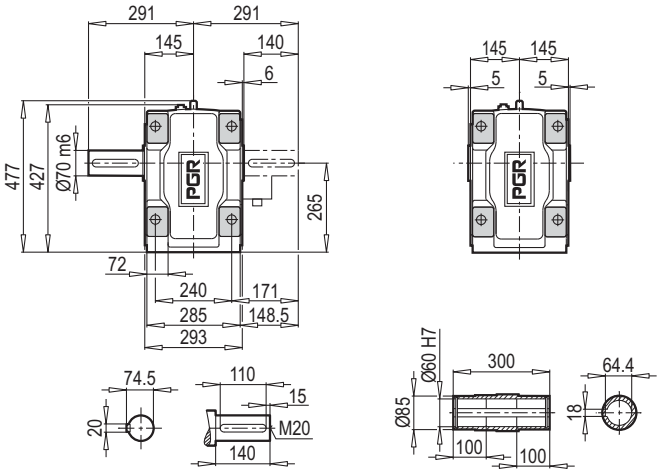
Tip / Type	PAM B14	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD 4490	71	105	70	85	4.0	7	14	30	16.3	5	88
	80	120	80	100	4.0	7	19	40	21.8	6	72
	90	140	95	115	4.0	9	24	50	27.3	8	72
	100	160	110	130	5.0	9	28	60	31.3	8	75
	112	160	110	130	5.0	9	28	60	31.3	8	75

~ Kg	
PAM B14	PKD 4490
71	125
80	126
90	126
100	128
112	128

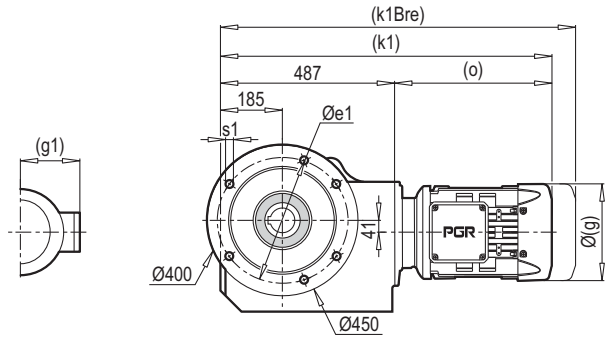
PKD 5390 TMA



PKD 5390 DA

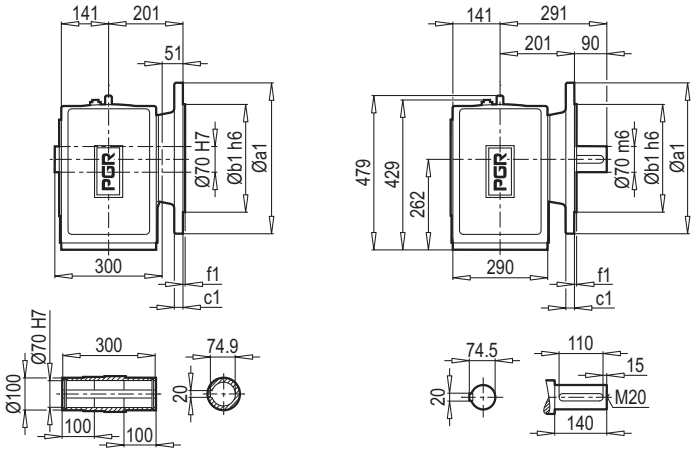


PKD 5390 DG/B5



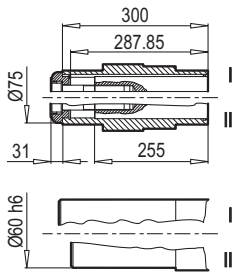
a1	b1	c1	e1	f1	s1
400	300	20	350	5	4x18
450	350	22	400	5	8x18

PKD 5390 TMG/B5



PKD 5390 DA/Ç

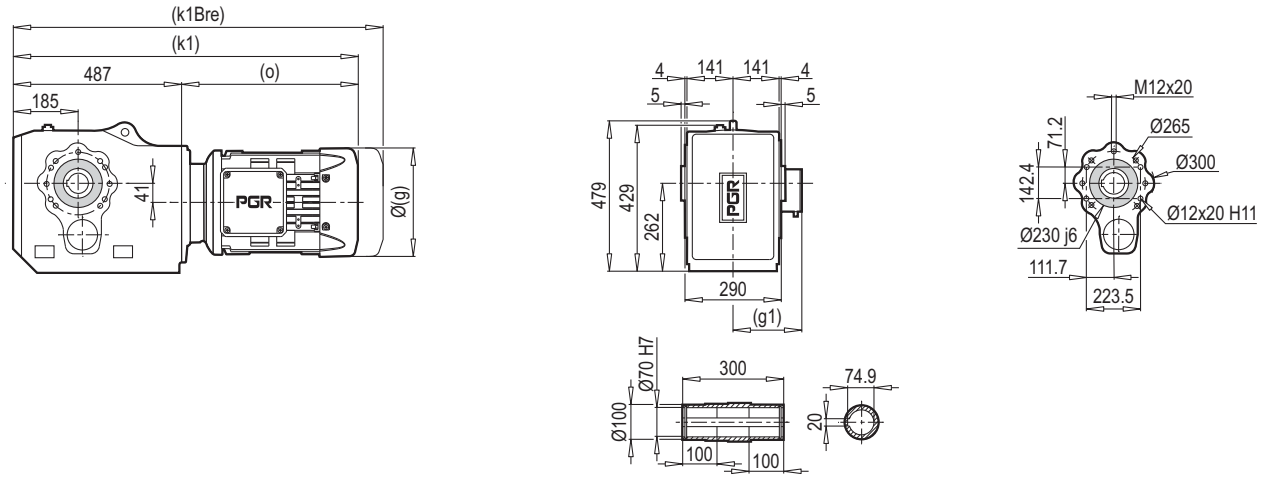
66-67



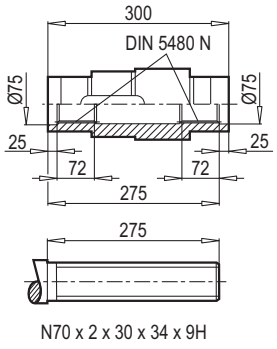
	90 S/L	100 L	112 M	132 S/M	160 M/L	180 M/L		
g	193	217	232	279	323	370		
g1	151	160	168	182	200	248		
k	727/747	775	820	827/862	967	1041		
kBre	800/820	856	900	935/1003	1119	1203		
o	265/285	313	358	365/400	505	579		

Not : (...) İşaretli olan ölçüler Motor markasına göre farklılık gösterir / Note : Dimension which is designated by (...) depends on marks of motor.

PKD 5390 DG/B14

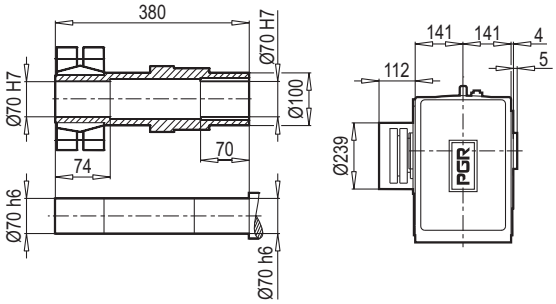


PKD 5390 DG/DIN 5480

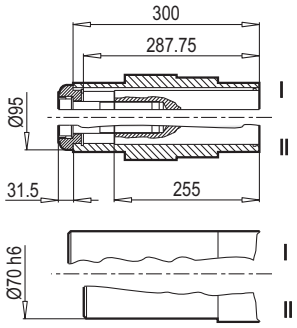


N70 x 2 x 30 x 34 x 9H

PKD 5390 DG/KS



PKD 5390 DG/Ç



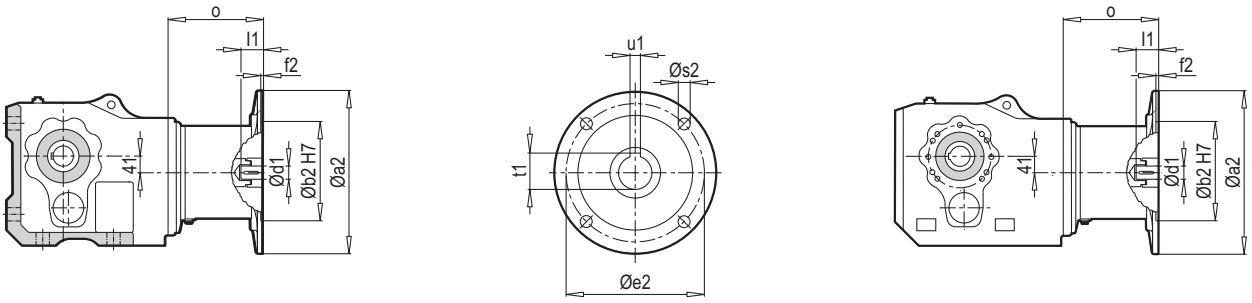
66-67

Tip/Type	Konik sıktırma / Shrink disc M_{2max} (Nm)	s^{h6}	s^{f6}	Altıköşe başlı civata / Hexagonal screw DIN 931 / DIN 933* 10.9Vz dxl	Zs	MA (Nm)
KS 70/90	4800	2.87	2.69	M12x70*	10	100

	90 S/L	100 L	112 M	132 S/M	160 M/L	180 M/L		
g	193	217	232	279	323	370		
g1	151	160	168	182	200	248		
k1	752/772	800	845	852/887	992	1066		
k1Bre	825/845	881	925	960/1028	1144	1228		
o	265/285	313	358	365/400	505	579		

Not : (...) İşaretli olan ölçüler Motor markasına göre farklılık gösterir / Note : Dimension which is designated by (...) depends on marks of motor.

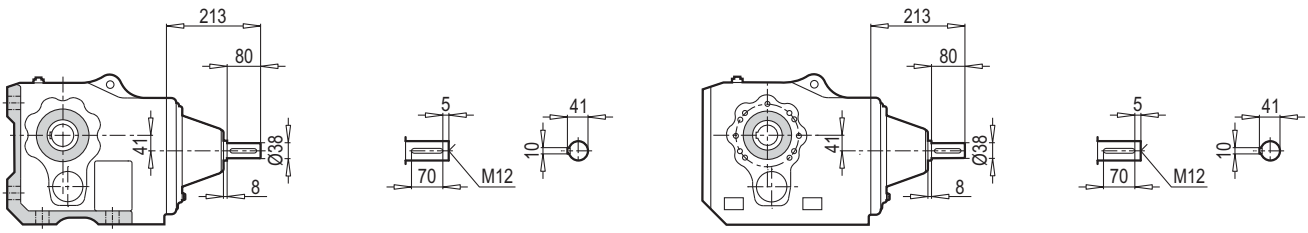
PKD 5390 IEC



Tip / Type	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD 5390	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
	180	350	250	300	6.0	M16	48	110	51.8	14	194

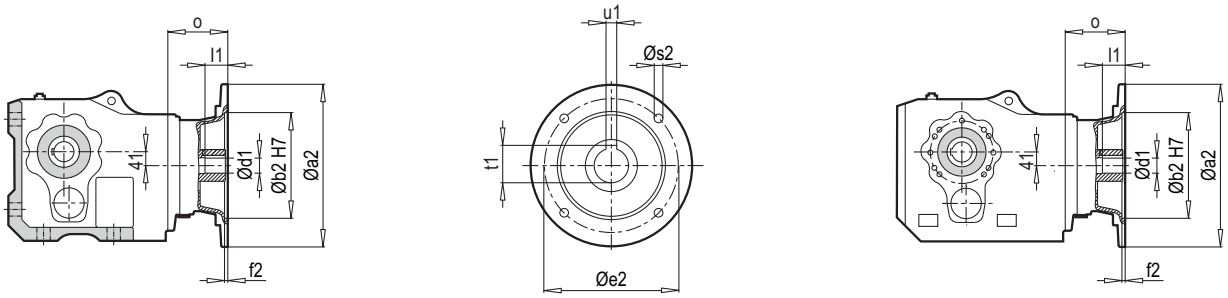
~ Kg	
IEC	PKD 5390
90	205
100	212
112	212
132	227
160	237
180	237

PKD 5390 W



W ~ Kg	
PKD 5390	210

PKD 5390 PAM B5/B14



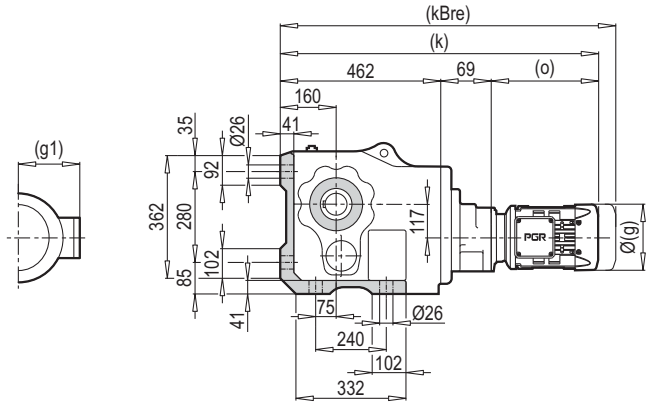
Tip / Type	PAM B5	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD 5390	90	200	130	165	4.0	M10	24	50	27.3	8	72
	100	250	180	215	5.0	M12	28	60	31.3	8	75
	112	250	180	215	5.0	M12	28	60	31.3	8	75
	132	300	230	265	5.0	M12	38	80	41.3	10	94
	160	350	250	300	6.0	M16	42	110	45.3	12	120
	180	350	250	300	6.0	M16	48	110	51.8	14	120

~ Kg	
PAM B5	PKD 5390
90	191
100	192
112	192
132	201
160	209
180	209

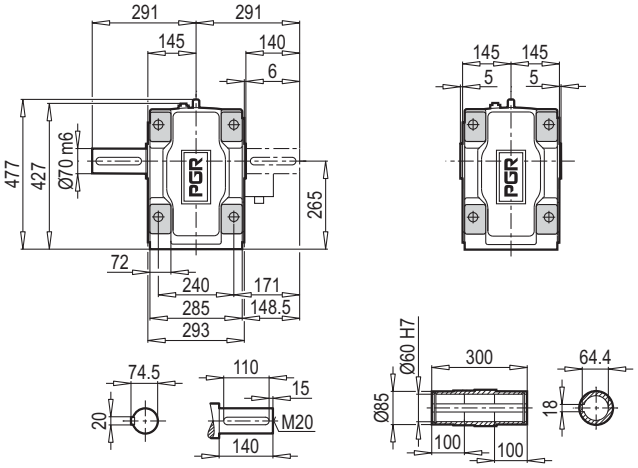
Tip / Type	PAM B14	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD 5390	90	140	95	115	4.0	9	24	50	27.3	8	72
	100	160	110	130	5.0	9	28	60	31.3	8	75
	112	160	110	130	5.0	9	28	60	31.3	8	75
	132	200	130	165	5.0	11	38	80	41.3	10	94

~ Kg	
PAM B14	PKD 5390
90	190
100	191
112	191
132	196

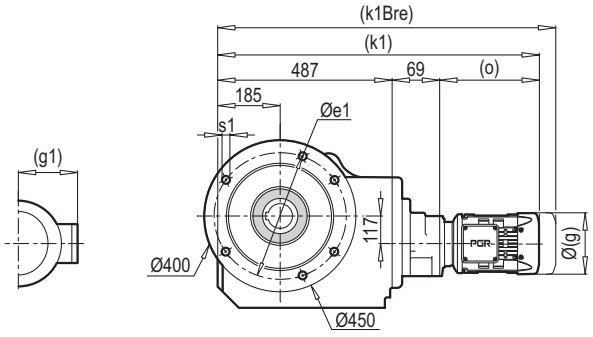
PKD 5490 TMA



PKD 5490 DA

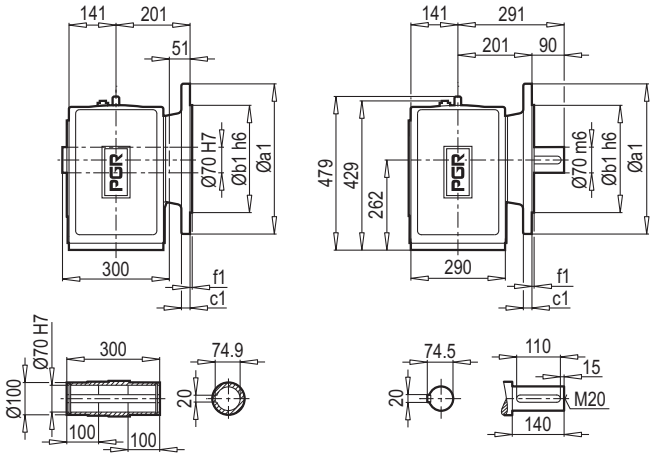


PKD 5490 DG/B5



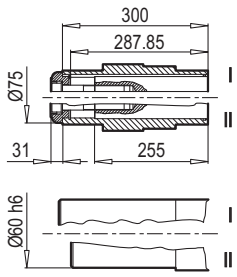
a1	b1	c1	e1	f1	s1
400	300	20	350	5	4x18
450	350	22	400	5	8x18

PKD 5490 TMG/B5



PKD 5490 DA/Ç

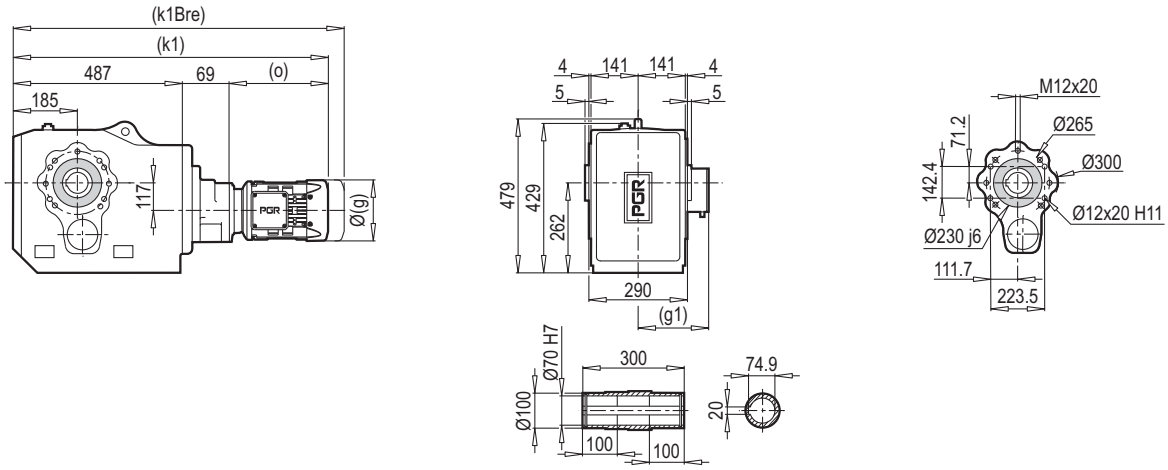
66-67



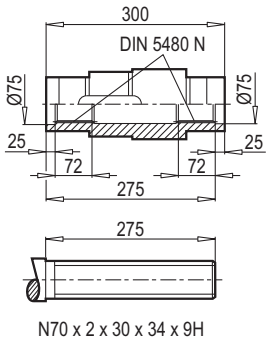
	71 M	80 M	90 S/L	100L	112M			
g	140	159	193	217	232			
g1	119	127	151	160	168			
k	767	793	816/836	864	909			
kBre	827	855	889/909	945	989			
o	236	262	285/305	333	378			

Not : (...) İşaretli olan ölçüler Motor markasına göre farklılık gösterir / Note : Dimension which is designated by (...) depends on marks of motor.

PKD 5490 DG/B14

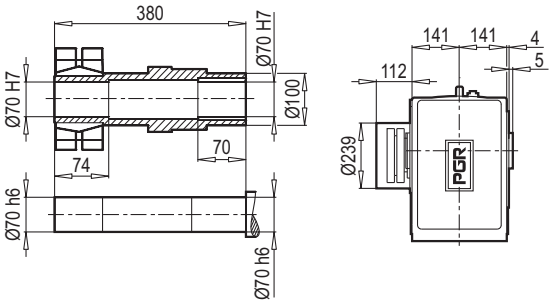


PKD 5490 DG/DIN 5480

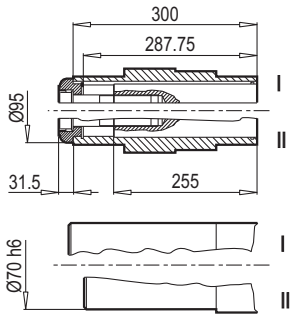


N70 x 2 x 30 x 34 x 9H

PKD 5490 DG/KS



PKD 5490 DG/Ç



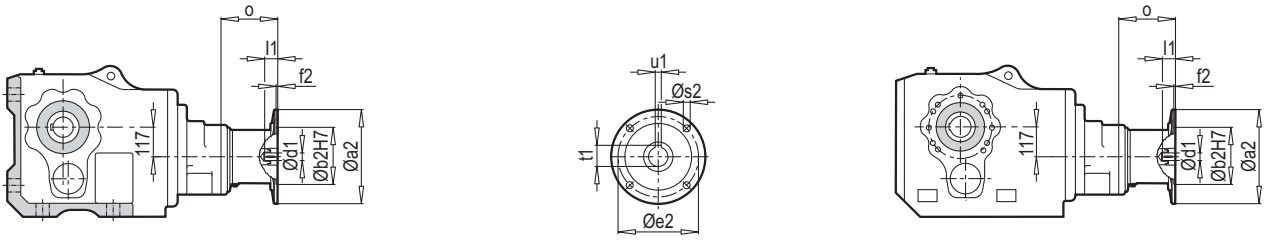
66-67

Konik sıktırma / Shrink disc				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 70/90	4800	2.87	2.69	M12x70*	10	100

	71 M	80 M	90 S/L	100L	112M			
g	140	159	193	217	232			
g1	119	127	151	160	168			
k1	792	818	841/861	889	934			
k1Bre	852	880	914/934	970	1014			
o	236	262	285/305	333	378			

Not : (...) İşaretli olan ölçüler Motor markasına göre farklılık gösterir / Note : Dimension which is designated by (...) depends on marks of motor.

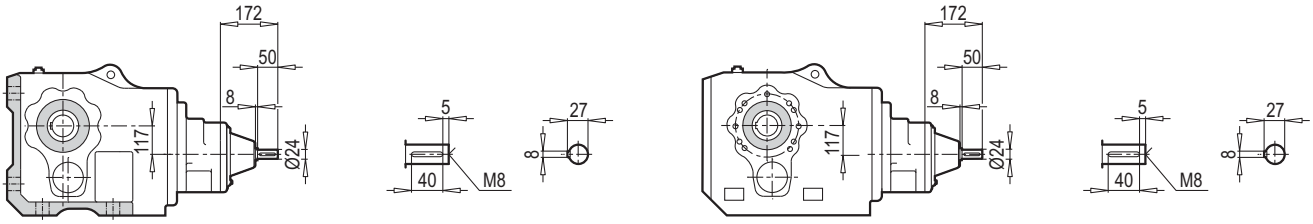
PKD 5490 IEC



Tip / Type	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD 5490	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

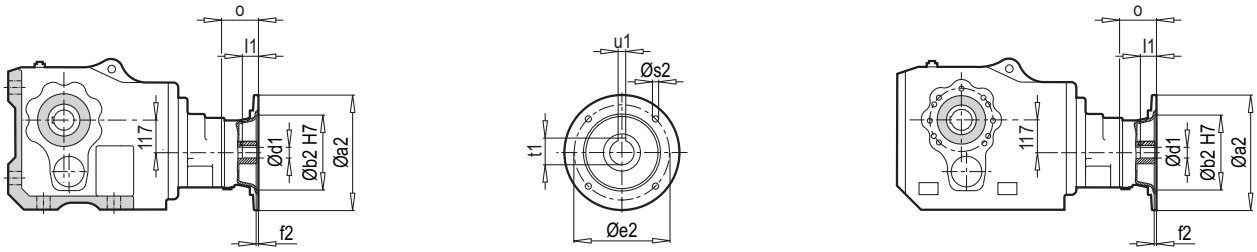
~ Kg	
IEC	PKD 5490
71	216
80	221
90	221
100	225
112	225

PKD 5490 W



W ~ Kg	
PKD 5490	218

PKD 5490 PAM B5/B14



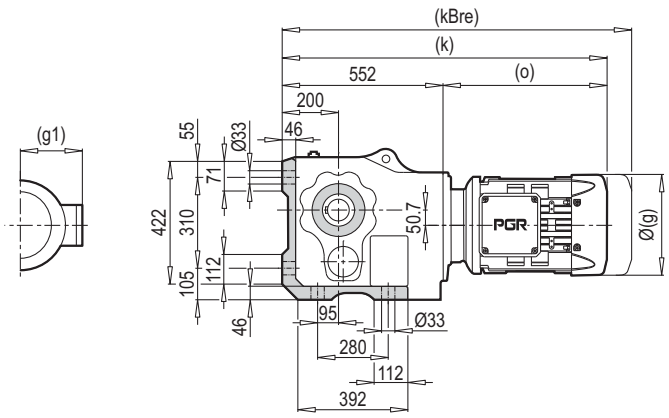
Tip / Type	PAM B5	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD 5490	71	160	110	130	4.0	M8	14	30	16.3	5	88
	80	200	130	165	4.0	M10	19	40	21.8	6	72
	90	200	130	165	4.0	M10	24	50	27.3	8	72
	100	250	180	215	5.0	M12	28	60	31.3	8	75
	112	250	180	215	5.0	M12	28	60	31.3	8	75

~ Kg	
PAM B5	PKD 5490
71	205
80	206
90	206
100	207
112	207

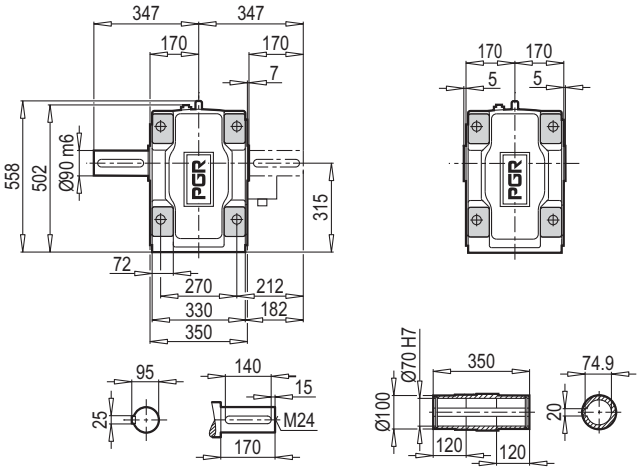
Tip / Type	PAM B14	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD 5490	71	105	70	85	4.0	7	14	30	16.3	5	88
	80	120	80	100	4.0	7	19	40	21.8	6	72
	90	140	95	115	4.0	9	24	50	27.3	8	72
	100	160	110	130	5.0	9	28	60	31.3	8	75
	112	160	110	130	5.0	9	28	60	31.3	8	75

~ Kg	
PAM B14	PKD 5490
71	203
80	204
90	204
100	206
112	206

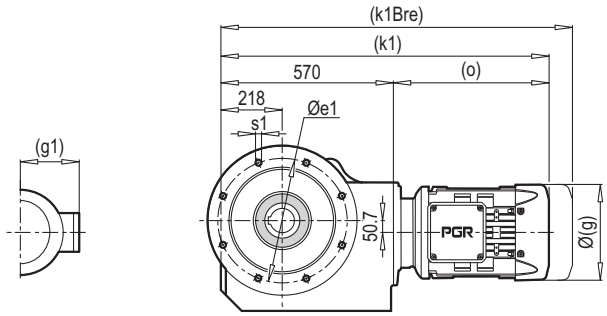
PKD 6390 TMA



PKD 6390 DA

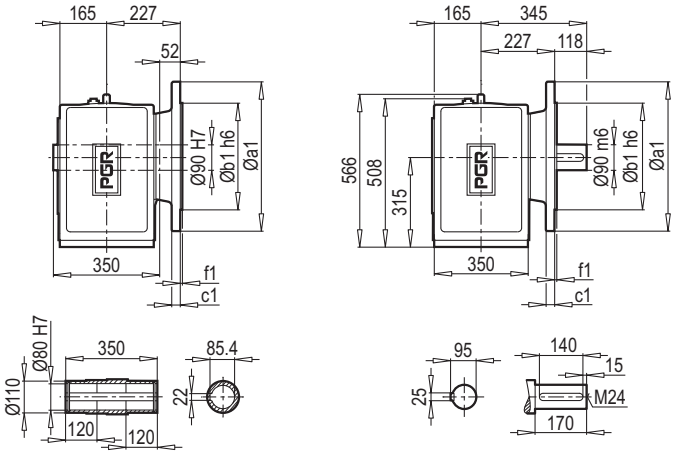


PKD 6390 DG/B5



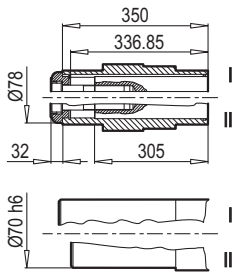
a1	b1	c1	e1	f1	s1
450	350	22	400	5	8x18
550	450	28	500	5	8x18

PKD 6390 TMG/B5



PKD 6390 DA/Ç

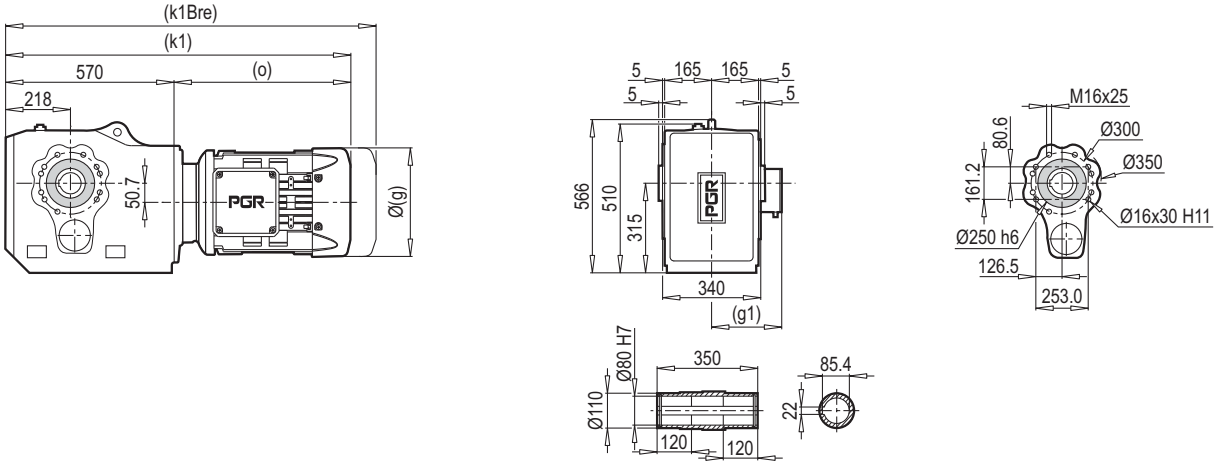
66-67



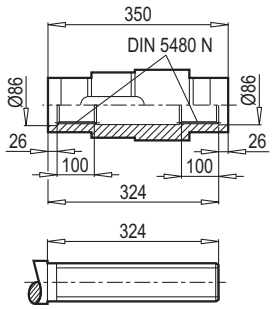
	100 L	112 M	132 S/M	160 M/L	180 M/L	200 L	225 S/M	
g	217	232	279	323	370	415	456	
g1	160	168	182	200	248	260	260	
k	864	912	915/950	1016	1075	1170	1252	
kBre	945	992	1023/1091	1168	1237	1317	1424	
o	312	360	363/398	464	523	618	700	

Not : (...) İşaretli olan ölçüler Motor markasına göre farklılık gösterir / Note : Dimension which is designated by (...) depends on marks of motor.

PKD 6390 DG/B14

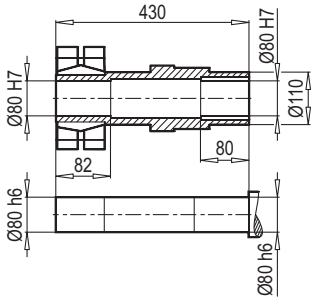


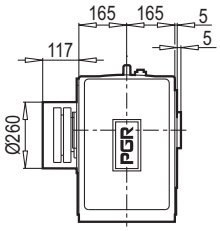
PKD 6390 DG/DIN 5480



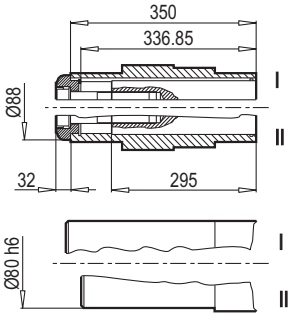
N85 x 3 x 30 x 27 x 9H

PKD 6390 DG/KS





PKD 6390 DG/Ç



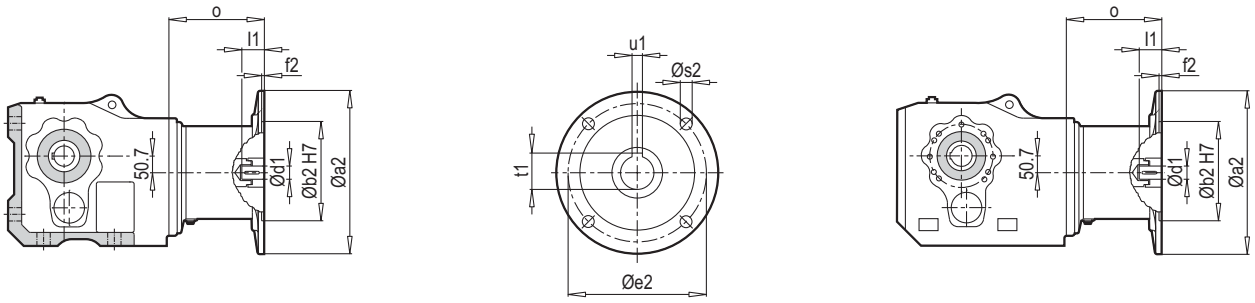
66-67

Tip/Type	Konik sıktırma / Shrink disc			Altıköşe başlı civata / Hexagonal screw DIN 931 / DIN 933* 10.9Vz		
	M_{amax} (Nm)	s h6	s f6	dxl	Zs	MA (Nm)
KS 80/108	8500	3.70	3.56	M12x70*	14	100

	100 L	112 M	132 S/M	160 M/L	180 M/L	200 L	225 S/M	
g	217	232	279	323	370	415	456	
g1	160	168	182	200	248	260	260	
k1	882	930	933/968	1034	1093	1188	1270	
k1Bre	963	1010	1041/1109	1186	1255	1335	1442	
o	312	360	363/398	464	523	618	700	

Not : (...) İşaretli olan ölçüler Motor markasına göre farklılık gösterir / Note : Dimension which is designated by (...) depends on marks of motor.

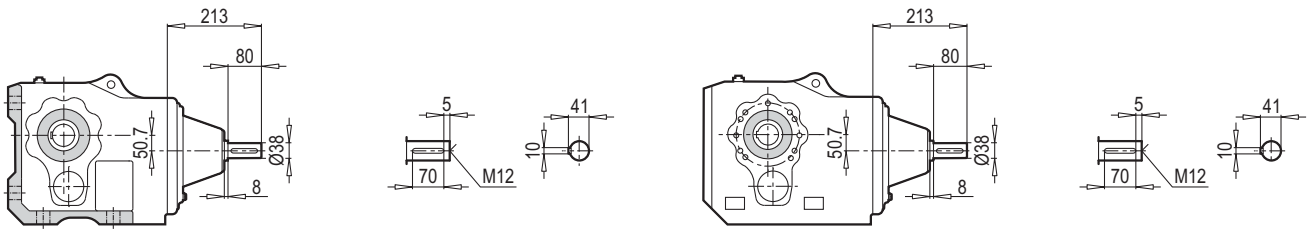
PKD 6390 IEC



Tip / Type	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD 6390	100	250	180	215	5.0	M12	28	60	31.3	8	127
	112	250	180	215	5.0	M12	28	60	31.3	8	127
	132	300	230	265	5.0	M12	38	80	41.3	10	177
	160	350	250	300	6.0	M16	42	110	45.3	12	266
	180	350	250	300	6.0	M16	48	110	51.8	14	266
	200	400	300	350	6.0	M16	55	110	59.3	16	229
	225	450	350	400	6.0	M16	60	140	64.4	18	303

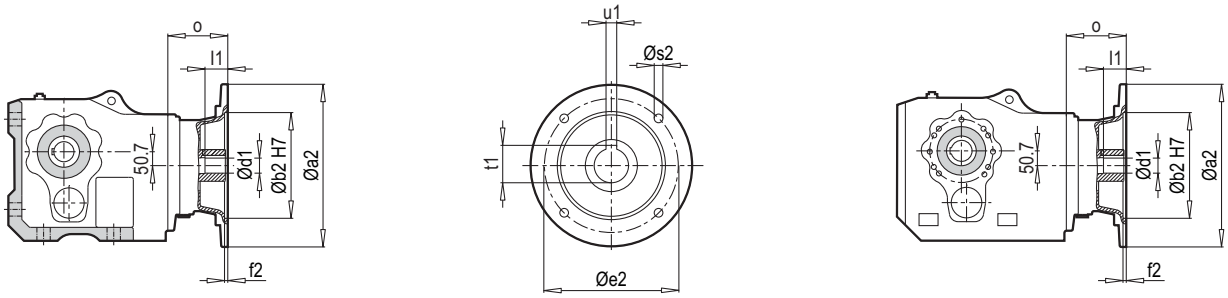
~ Kg	
IEC	PKD 6390
100	365
112	365
132	379
160	405
180	405
200	420
225	436

PKD 6390 W



W ~ Kg	
PKD 6390	378

PKD 6390 PAM B5/B14



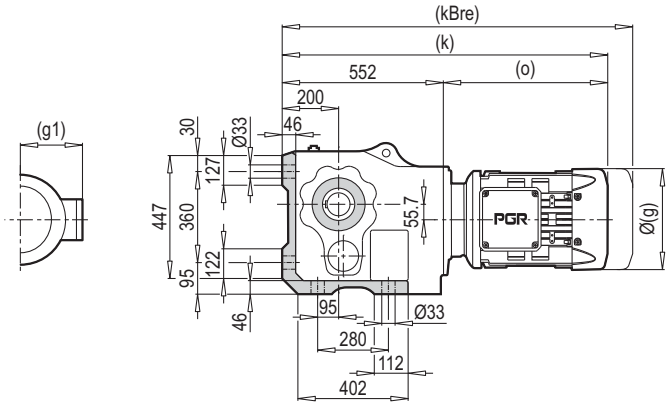
Tip / Type	PAM B5	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD 6390	100	250	180	215	5.0	M12	28	60	31.3	8	75
	112	250	180	215	5.0	M12	28	60	31.3	8	75
	132	300	230	265	5.0	M12	38	80	41.3	10	110
	160	350	250	300	6.0	M16	42	110	45.3	12	145
	180	350	250	300	6.0	M16	48	110	51.8	14	145
	200	400	300	350	6.0	M16	55	110	59.3	16	157
	225	450	350	400	6.0	M16	60	140	64.4	18	183

~ Kg	
PAM B5	PKD 6390
100	335
112	335
132	346
160	363
180	363
200	370
225	380

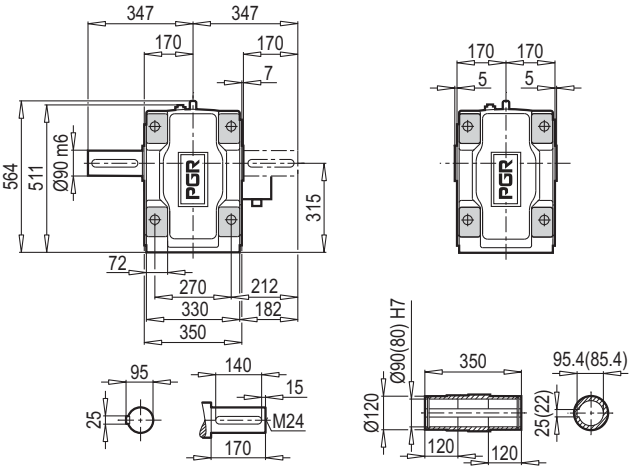
Tip / Type	PAM B14	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD 6390	100	160	110	130	5.0	9	28	60	31.3	8	75
	112	160	110	130	5.0	9	28	60	31.3	8	75
	132	200	130	165	5.0	11	38	80	41.3	10	110

~ Kg	
PAM B14	PKD 6390
100	334
112	334
132	341

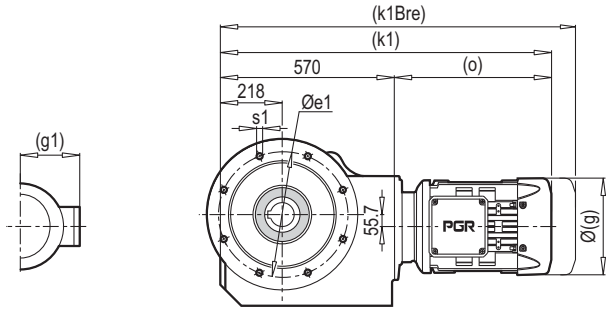
PKD 7390 TMA



PKD 7390 DA

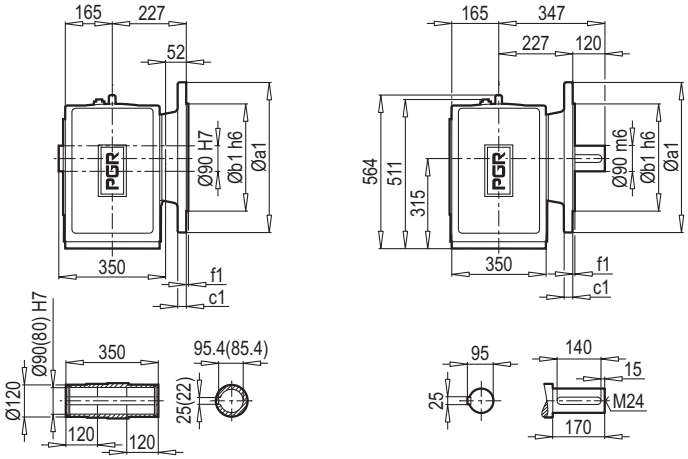


PKD 7390 DG/B5



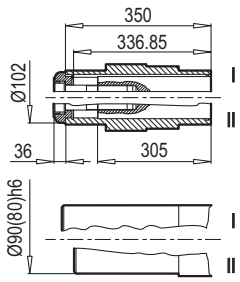
a1	b1	c1	e1	f1	s1
450	350	22	400	5	8x18
550	450	28	500	5	8x18

PKD 7390 TMG/B5



PKD 7390 DA/Ç

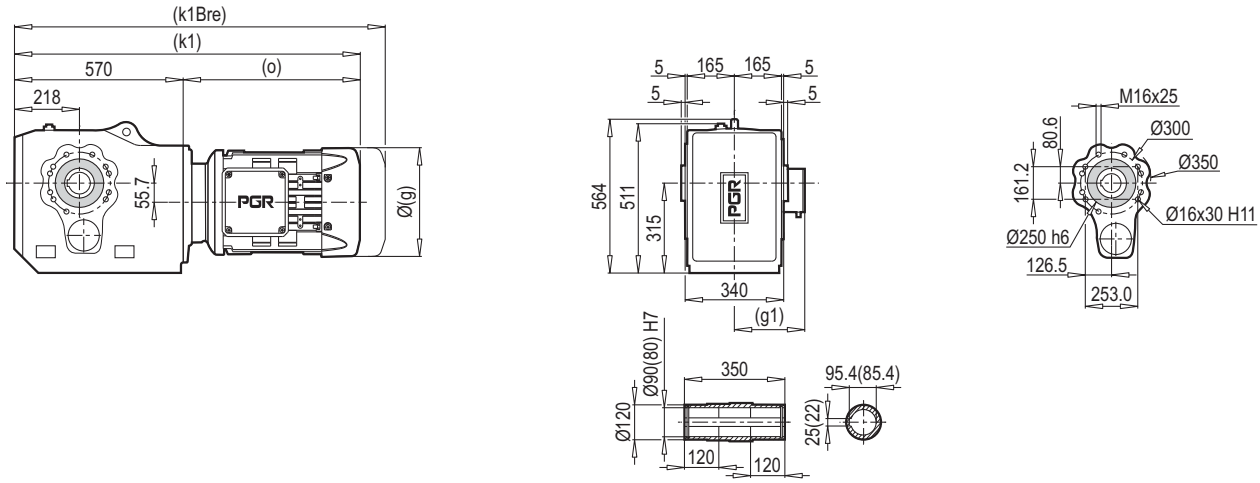
66-67



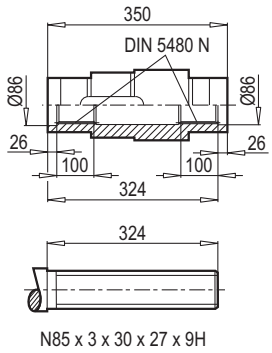
	100 L	112 M	132 S/M	160 M/L	180 M/L	200 L	225 S/M	
g	217	232	279	323	370	415	456	
g1	160	168	182	200	248	260	260	
k	864	912	915/950	1016	1075	1170	1252	
kBre	945	992	1023/1091	1168	1237	1317	1424	
o	312	360	363/398	464	523	618	700	

Not : (...) İşaretli olan ölçüler Motor markasına göre farklılık gösterir / Note : Dimension which is designated by (...) depends on marks of motor.

PKD 7390 DG/B14

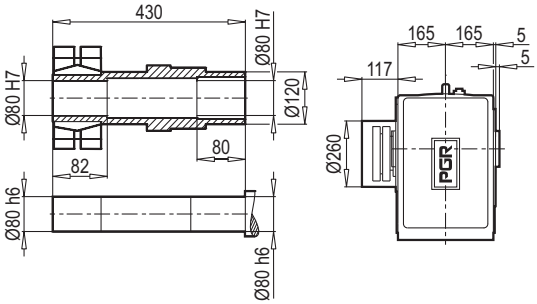


PKD 7390 DG/DIN 5480

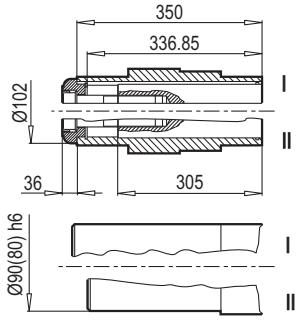


N85 x 3 x 30 x 27 x 9H

PKD 7390 DG/KS



PKD 7390 DG/Ç



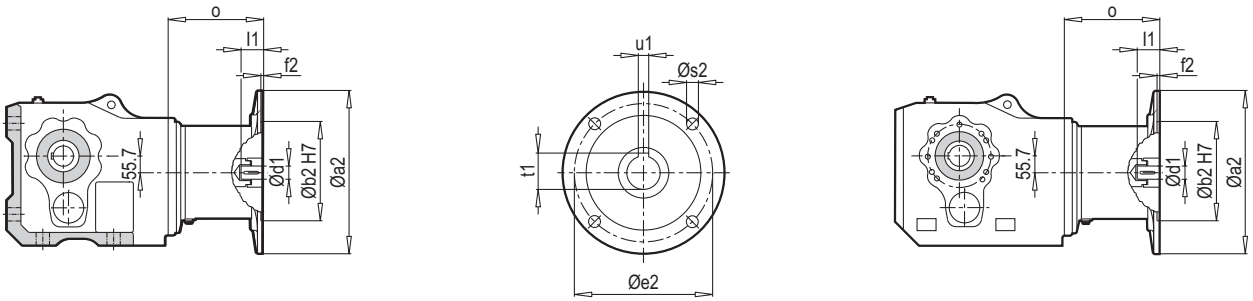
66-67

Konik sıktırma / Shrink disc				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 80/108	8500	3.70	3.56	M12x70*	14	100

	100 L	112 M	132 S/M	160 M/L	180 M/L	200 L	225 S/M	
g	217	232	279	323	370	415	456	
g1	160	168	182	200	248	260	260	
k1	882	930	933/968	1034	1093	1188	1270	
k1Bre	963	1010	1041/1109	1186	1255	1335	1442	
o	312	360	363/398	464	523	618	700	

Not : (...) İşaretli olan ölçüler Motor markasına göre farklılık gösterir / Note : Dimension which is designated by (...) depends on marks of motor.

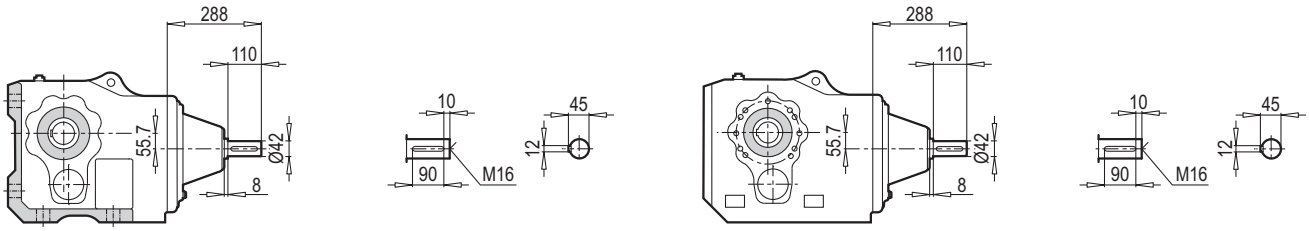
PKD 7390 IEC



Tip / Type	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD 7390	100	250	180	215	5.0	M12	28	60	31.3	8	127
	112	250	180	215	5.0	M12	28	60	31.3	8	127
	132	300	230	265	5.0	M12	38	80	41.3	10	177
	160	350	250	300	6.0	M16	42	110	45.3	12	266
	180	350	250	300	6.0	M16	48	110	51.8	14	266
	200	400	300	350	6.0	M16	55	110	59.3	16	229
	225	450	350	400	6.0	M16	60	140	64.4	18	303

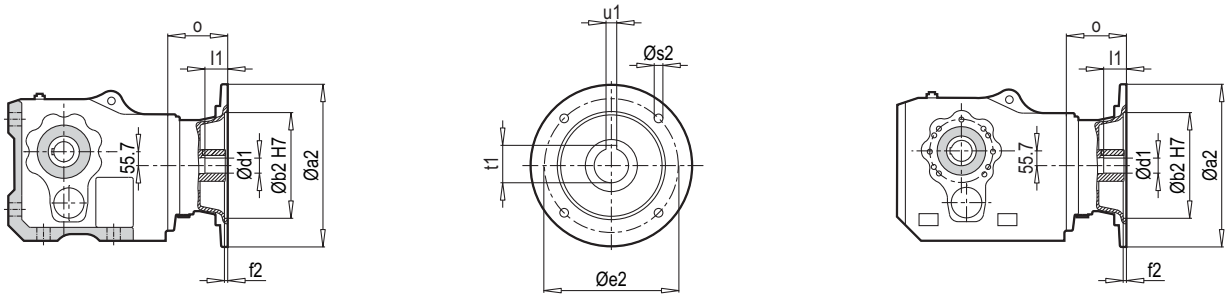
~ Kg	
IEC	PKD 7390
100	365
112	365
132	379
160	405
180	405
200	420
225	436

PKD 7390 W



W ~ Kg	
PKD 7390	378

PKD 7390 PAM B5/B14



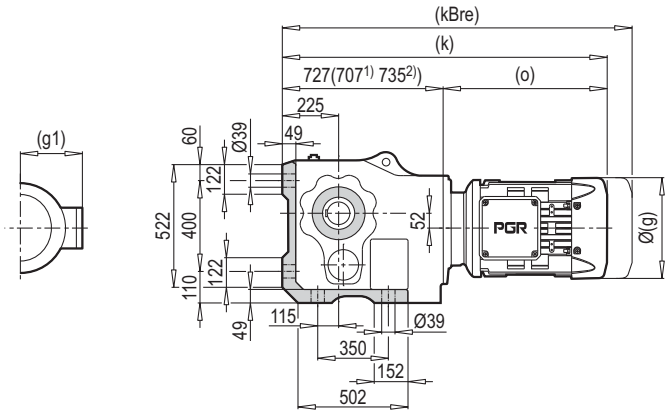
Tip / Type	PAM B5	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD 7390	100	250	180	215	5.0	M12	28	60	31.3	8	75
	112	250	180	215	5.0	M12	28	60	31.3	8	75
	132	300	230	265	5.0	M12	38	80	41.3	10	110
	160	350	250	300	6.0	M16	42	110	45.3	12	145
	180	350	250	300	6.0	M16	48	110	51.8	14	145
	200	400	300	350	6.0	M16	55	100	59.3	16	157
	225	450	350	400	6.0	M16	60	140	64.4	18	183

~ Kg	
PAM B5	PKD 7390
100	335
112	335
132	346
160	363
180	363
200	370
225	380

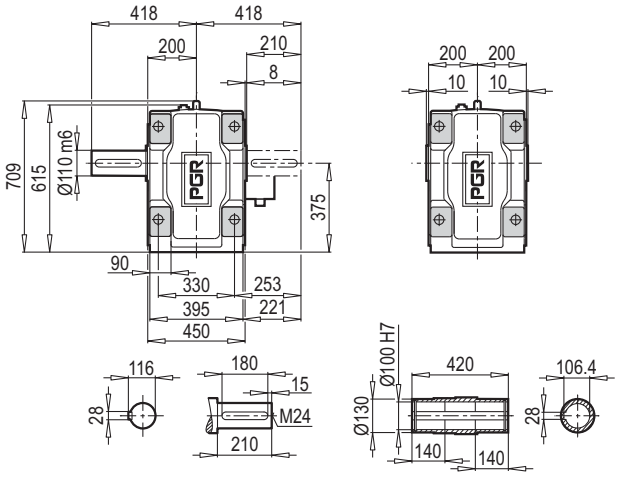
Tip / Type	PAM B14	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD 7390	100	160	110	130	5.0	9	28	60	31.3	8	75
	112	160	110	130	5.0	9	28	60	31.3	8	75
	132	200	130	165	5.0	11	38	80	41.3	10	110

~ Kg	
PAM B14	PKD 7390
100	334
112	334
132	341

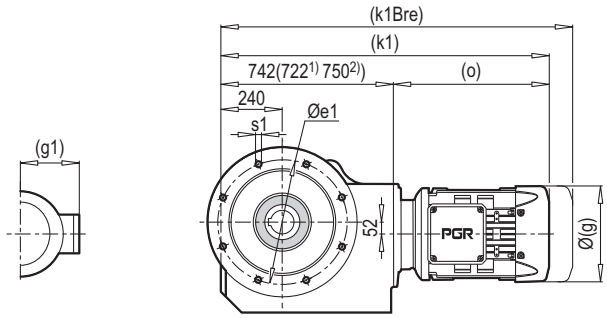
PKD 8390 TMA



PKD 8390 DA

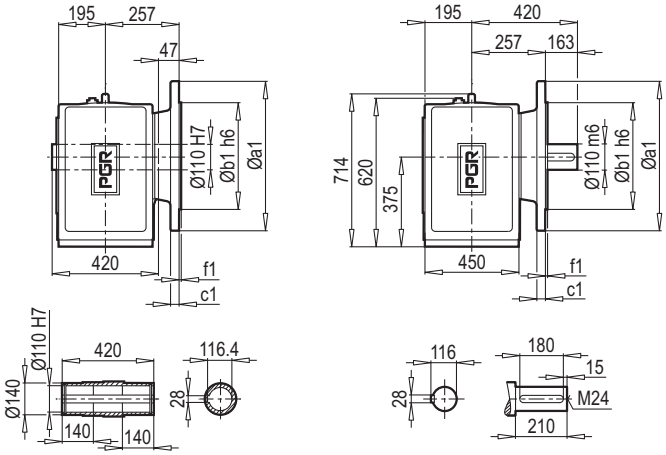


PKD 8390 DG/B5



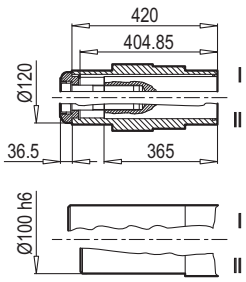
a1	b1	c1	e1	f1	s1
550	450	28	500	5	8x18

PKD 8390 TMG/B5



PKD 8390 DA/Ç

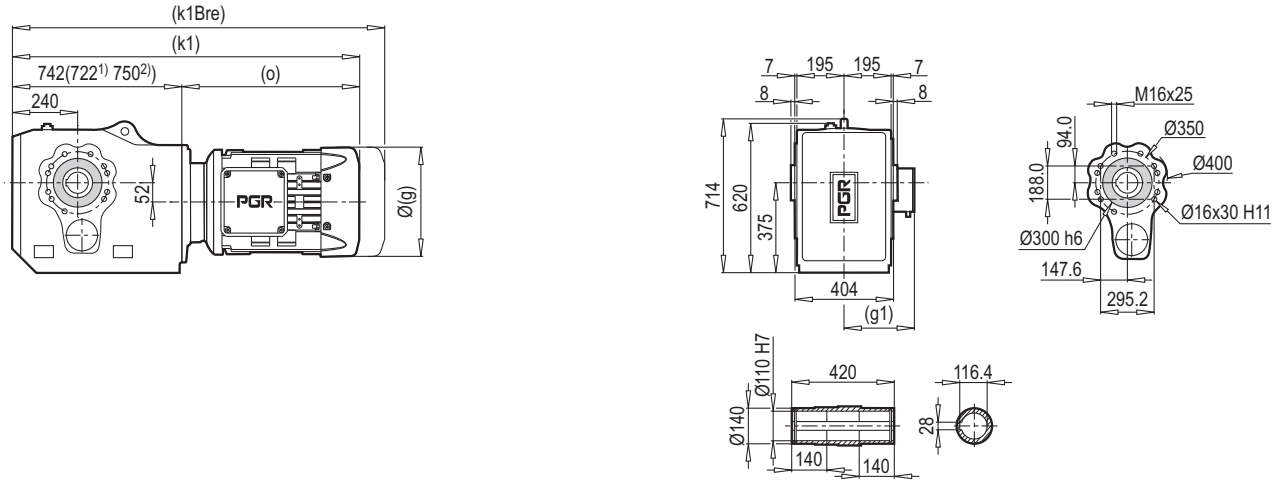
66-67



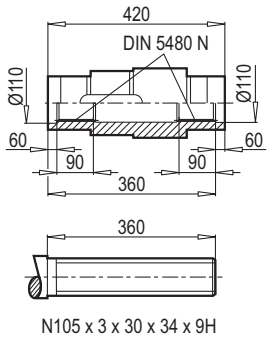
	132 S/M	160 M/L	180 M/L	200 L	225 S/M	250 M [1]	280 M [2]	
g	279	323	370	415	456	495	527	
g1	182	200	248	260	260	392	367	
k	1090/1125	1191	1250	1345	1427	1351	1653	
kBre	1198/1266	1343	1412	1492	1599	1481	-	
o	363/398	464	523	618	700	644	888	

Not : (...) İşaretli olan ölçüler Motor markasına göre farklılık gösterir / Note : Dimension which is designated by (...) depends on marks of motor.

PKD 8390 DG/B14

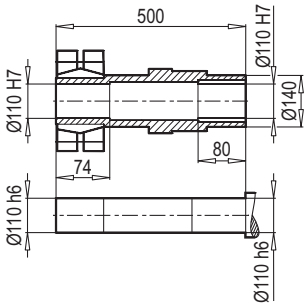


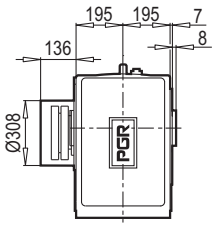
PKD 8390 DG/DIN 5480



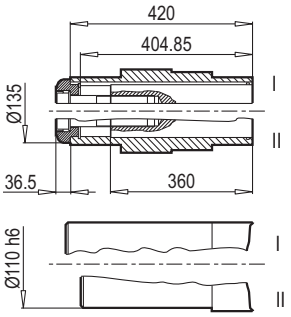
N105 x 3 x 30 x 34 x 9H

PKD 8390 DG/KS





PKD 8390 DG/Ç



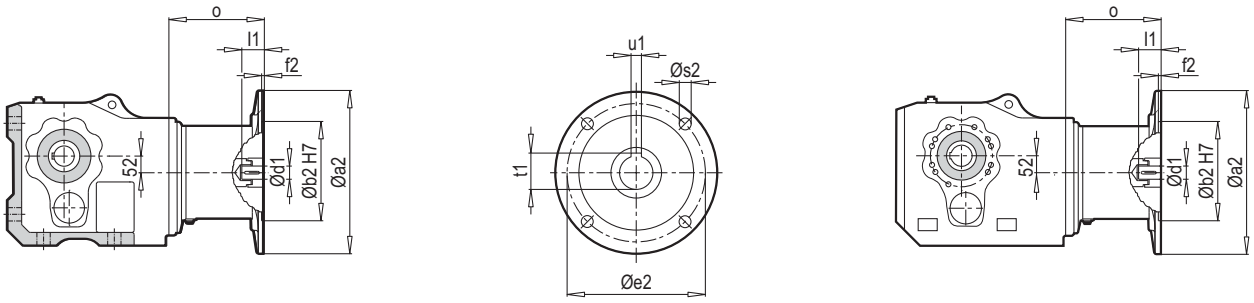
66-67

Konik sıktırma / Shrink disc				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 110/138	13000	2.66	2.54	M16x70	8	250

	132 S/M	160 M/L	180 M/L	200 L	225 S/M	250 M [1]	280 M [2]	
g	279	323	370	415	456	495	527	
g1	182	200	248	260	260	392	367	
k1	1105/1140	1206	1265	1360	1442	1366	1638	
k1Bre	1213/1281	1358	1427	1507	1614	1496	-	
o	363/398	464	523	618	700	644	888	

Not : (...) İşaretli olan ölçüler Motor markasına göre farklılık gösterir / Note : Dimension which is designated by (...) depends on marks of motor.

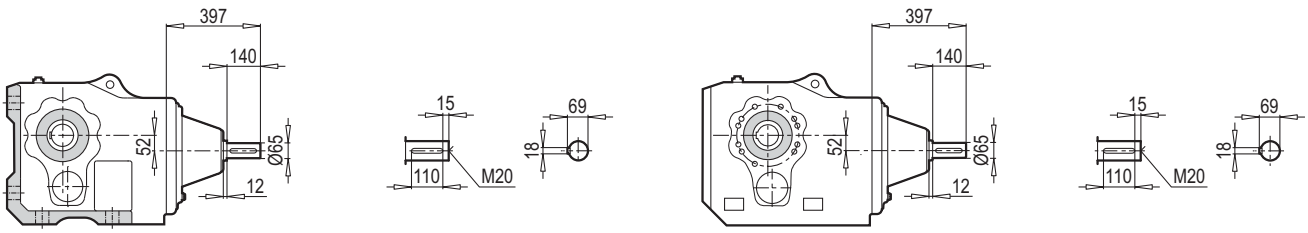
PKD 8390 IEC



Tip / Type	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD 8390	132	300	230	265	5.0	M12	38	80	41.3	10	177
	160	350	250	300	6.0	M16	42	110	45.3	12	266
	180	350	250	300	6.0	M16	48	110	51.8	14	266
	200	400	300	350	6.0	M16	55	110	59.3	16	229
	225	450	350	400	6.0	M16	60	140	64.4	18	303
	250	550	450	500	6.0	M16	65	140	69.4	18	303
	280	550	450	500	6.0	M16	75	140	79.9	20	303
	315	660	550	600	7.0	M20	80	170	85.4	22	381

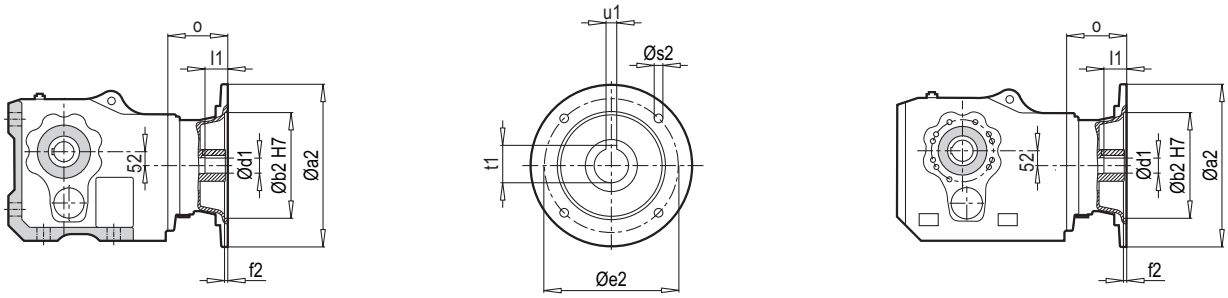
~ Kg	
IEC	PKD 8390
132	658
160	685
180	685
200	700
225	716
225	774
280	774
315	859

PKD 8390 W



W ~ Kg	
PKD 8390	737

PKD 8390 PAM B5/B14



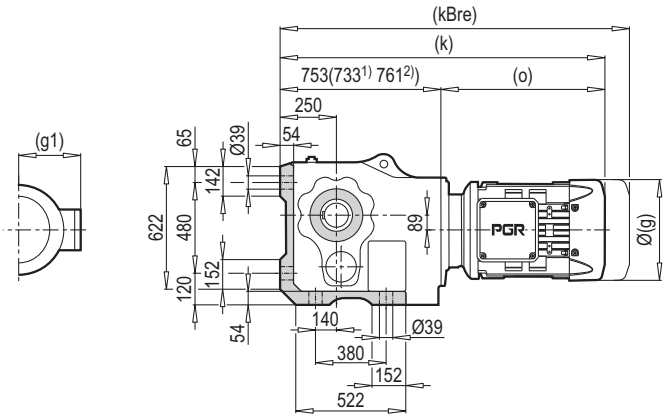
Tip / Type	PAM B5	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD 8390	100	250	180	215	5.0	M12	28	60	31.3	8	75
	112	250	180	215	5.0	M12	28	60	31.3	8	75
	132	300	230	265	5.0	M12	38	80	41.3	10	110
	160	350	250	300	6.0	M16	42	110	45.3	12	145
	180	350	250	300	6.0	M16	48	110	51.8	14	145
	200	400	300	350	6.0	M16	55	110	59.3	16	157
	225	450	350	400	6.0	M16	60	140	64.4	18	183
	250	550	450	500	6.0	M16	65	140	69.4	18	202
	280	550	450	500	6.0	M16	75	140	79.9	20	202

~ Kg	
PAM B5	PKD 8390
100	595
112	595
132	606
160	623
180	623
200	630
225	640
250	700
280	700

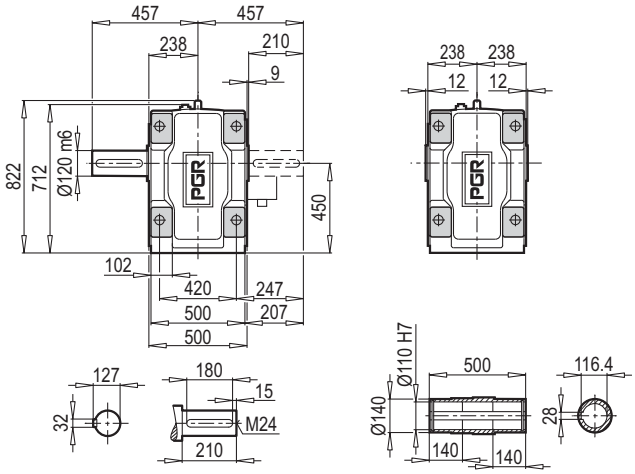
Tip / Type	PAM B14	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD 8390	100	160	110	130	5.0	9	28	60	31.3	8	75
	112	160	110	130	5.0	9	28	60	31.3	8	75
	132	200	130	165	5.0	11	38	80	41.3	10	110

~ Kg	
PAM B14	PKD 8390
100	594
112	594
132	601

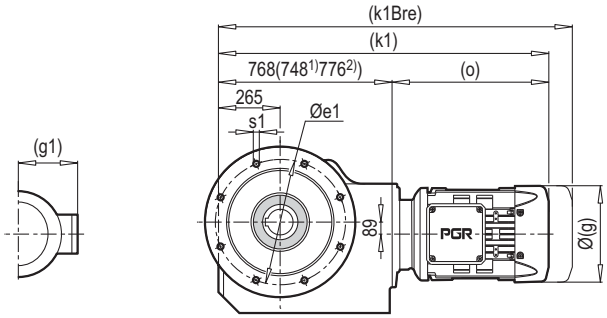
PKD G 8390 TMA



PKD G 8390 DA

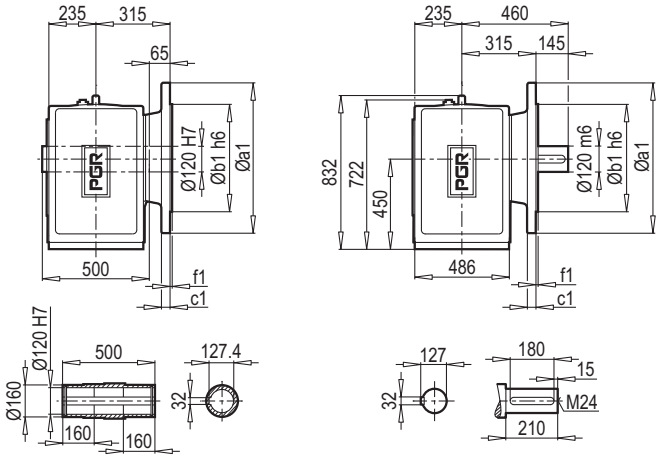


PKD G 8390 DG/B5



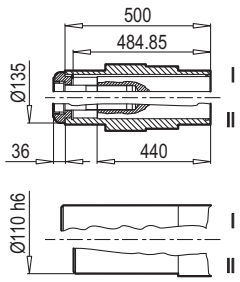
a1	b1	c1	e1	f1	s1
660	550	32	600	6	8x22

PKD G 8390 TMG/B5



PKD G 8390 DA/Ç

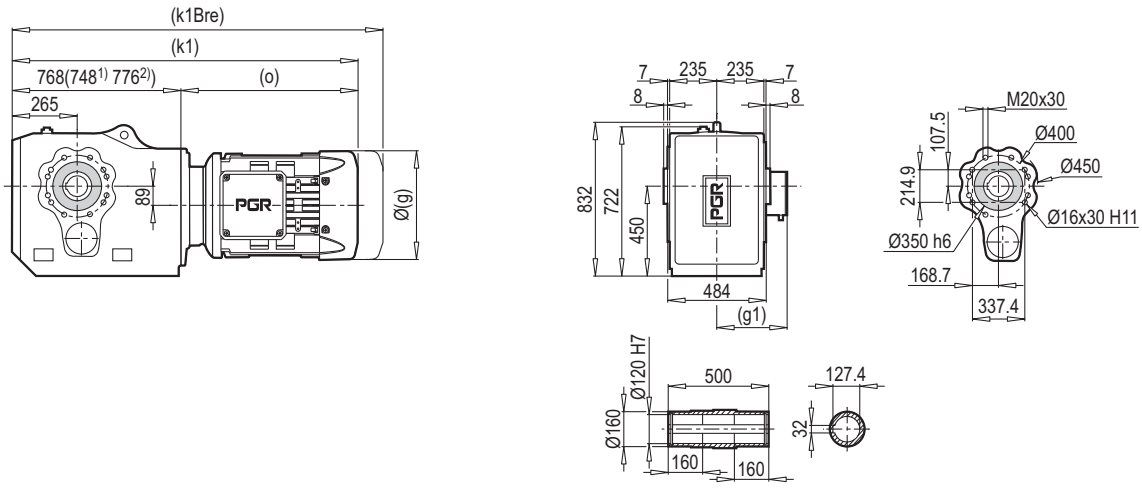
66-67



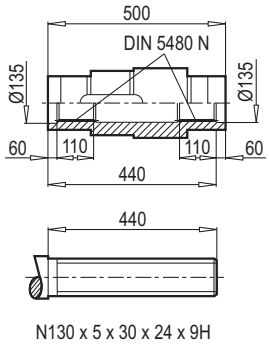
	132 S/M	160 M/L	180 M/L	200 L	225 S/M	250 M[1)]	280 M[2)]	315 S[2)]	315 M[2)]
g	279	323	370	415	456	495	527	-	-
g1	182	200	248	260	260	392	367	-	-
k	1116/1151	1217	1276	1371	1453	1377	1649	-	-
kBre	1224/1292	1369	1438	1518	1625	1507	-	-	-
o	363/398	464	523	618	700	644	888	-	-

Not : (...) İşaretli olan ölçüler Motor markasına göre farklılık gösterir / Note : Dimension which is designated by (...) depends on marks of motor.

PKD G 8390 DG/B14

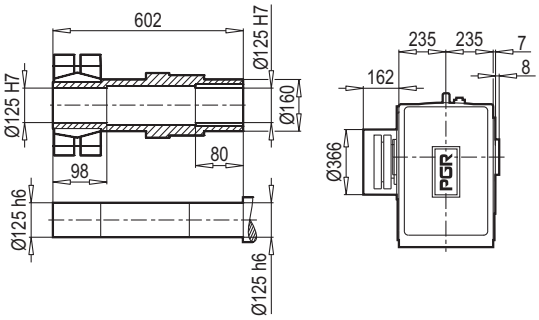


PKD G 8390 DG/DIN 5480

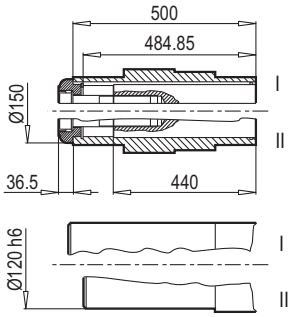


N130 x 5 x 30 x 24 x 9H

PKD G 8390 DG/KS



PKD G 8390 DG/Ç



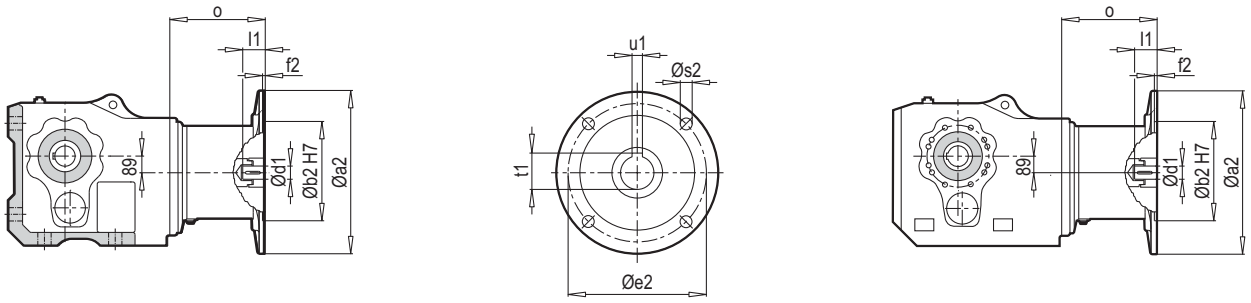
66-67

Konik sıktırma / Shrink disc				**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 125/158	20000	2.91	2.77	M16x80*	12	250

	132 S/M	160 M/L	180 M/L	200 L	225 S/M	250 M [1]	280 M [2]	315 S [2]	315 M [2]
g	279	323	370	415	456	495	527	-	-
g1	182	200	248	260	260	392	367	-	-
k1	1131/1166	1232	1291	1386	1468	1392	1664	-	-
k1Bre	1239/1307	1384	1453	1533	1640	1522	-	-	-
o	363/398	464	523	618	700	644	888	-	-

Not : (...) İşaretli olan ölçüler Motor markasına göre farklılık gösterir / Note : Dimension which is designated by (...) depends on marks of motor.

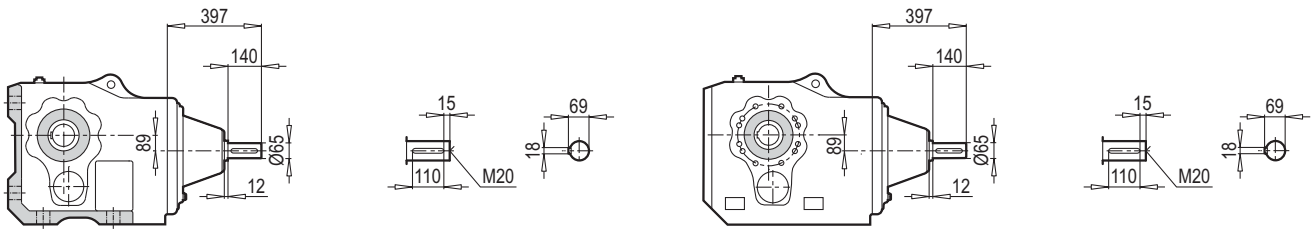
PKD G 8390 IEC



Tip / Type	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD G 8390	132	300	230	265	5.0	M12	38	80	41.3	10	177
	160	350	250	300	6.0	M16	42	110	45.3	12	266
	180	350	250	300	6.0	M16	48	110	51.8	14	266
	200	400	300	350	6.0	M16	55	110	59.3	16	229
	225	450	350	400	6.0	M16	60	140	64.4	18	303
	250	550	450	500	6.0	M16	65	140	69.4	18	303
	280	550	450	500	6.0	M16	75	140	79.9	20	303
	315	660	550	600	7.0	M20	80	170	85.4	22	381

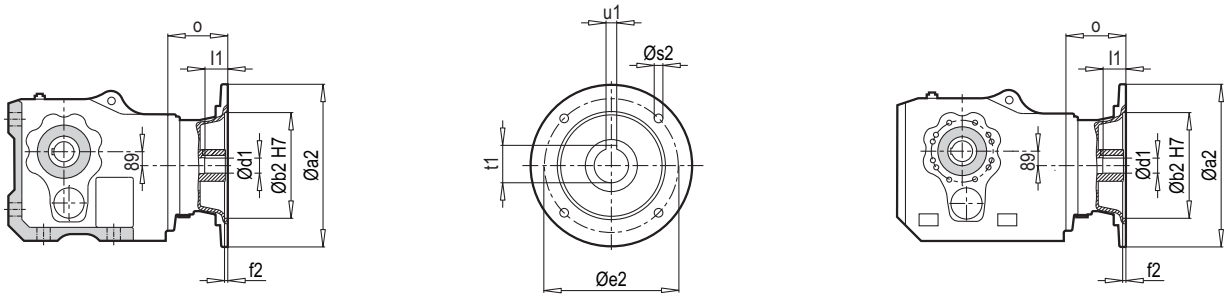
~ Kg	
IEC	PKD G 8390
132	923
160	950
180	950
200	965
225	981
225	1039
280	1039
315	1124

PKD G 8390 W



W ~ Kg	
PKD G 8390	1002

PKD G 8390 PAM B5/B14



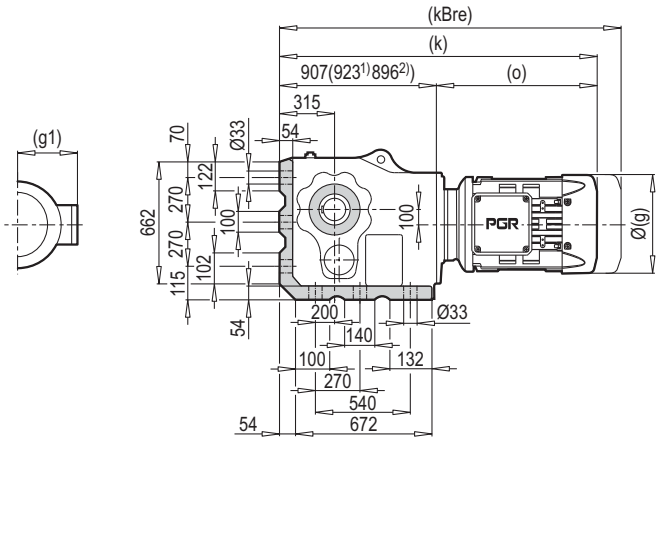
Tip / Type	PAM B5	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD G 8390	132	300	230	265	5.0	M12	38	80	41.3	10	110
	160	350	250	300	6.0	M16	42	110	45.3	12	145
	180	350	250	300	6.0	M16	48	110	51.8	14	145
	200	400	300	350	6.0	M16	55	110	59.3	16	157
	225	450	350	400	6.0	M16	60	140	64.4	18	183
	250	550	450	500	6.0	M16	65	140	69.4	18	202
	280	550	450	500	6.0	M16	75	140	79.9	20	202

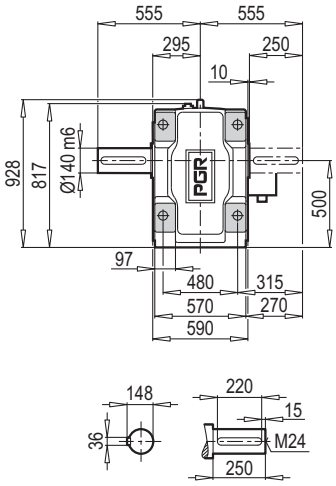
~ Kg	
PAM B5	PKD G 8390
132	856
160	873
180	873
200	880
225	890
250	950
280	950

Tip / Type	PAM B14	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD G 8390	132	200	130	165	5.0	11	38	80	41.3	10	110

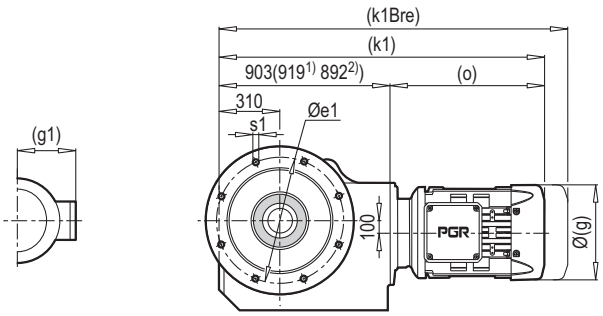
~ Kg	
PAM B14	PKD G 8390
132	851

PKD 9390 TMA



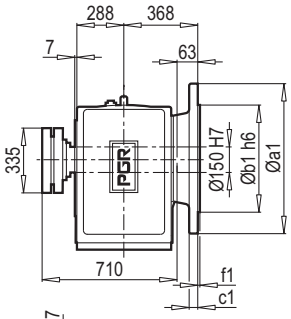


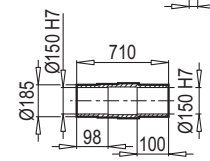
PKD 9390 DG/KS/B5

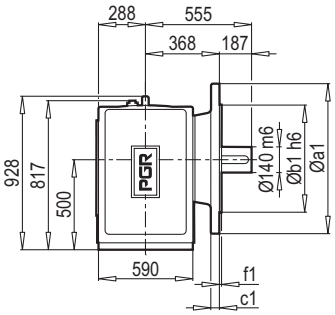


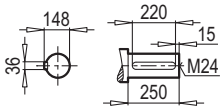
a1	b1	c1	e1	f1	s1
660	550	32	600	6	8x22

PKD 9390 TMG/B5





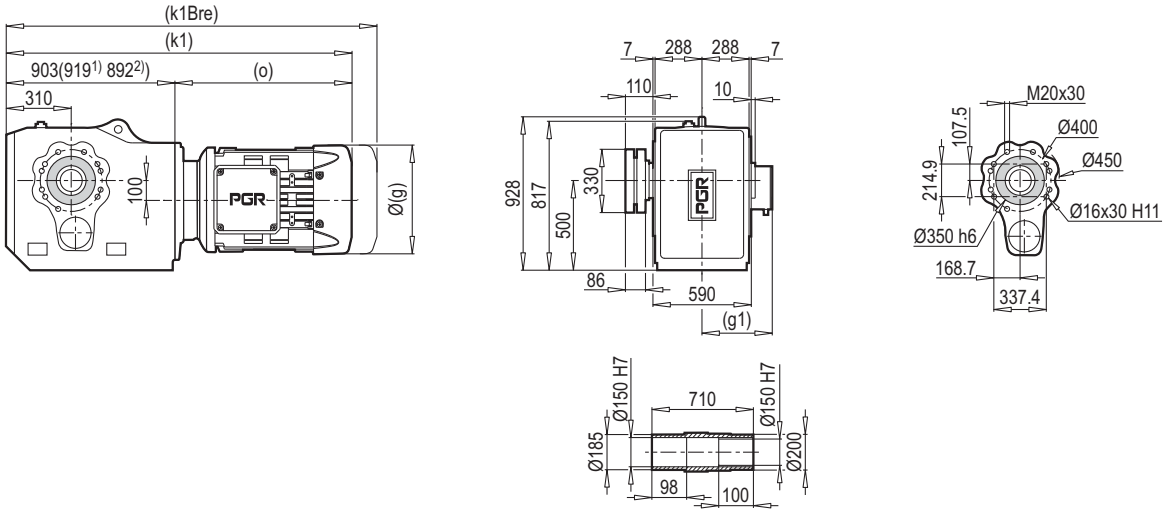




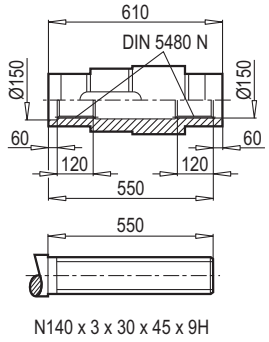
	160 M/L	180 M/L	200 L	225 S/M	250 M [1]	280 M [2]	315 S [2]	315 M [2]
g	323	370	415	456	495	527	-	-
g1	200	248	260	260	392	367	-	-
k	1371	1430	1525	1607	1567	1784	-	-
kBre	1523	1592	1672	1779	1697	-	-	-
o	464	523	618	700	644	888	-	-

Not : (...) İşaretli olan ölçüler Motor markasına göre farklılık gösterir / Note : Dimension which is designated by (...) depends on marks of motor.

PKD 9390 DG/KS/B14

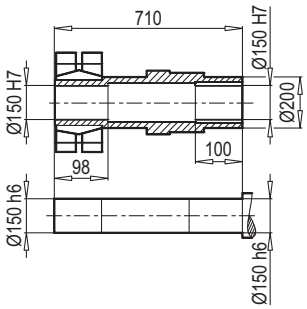


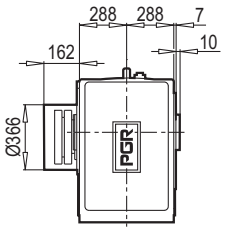
PKD 9390 DG/DIN 5480



N140 x 3 x 30 x 45 x 9H

PKD 9390 DG/KS



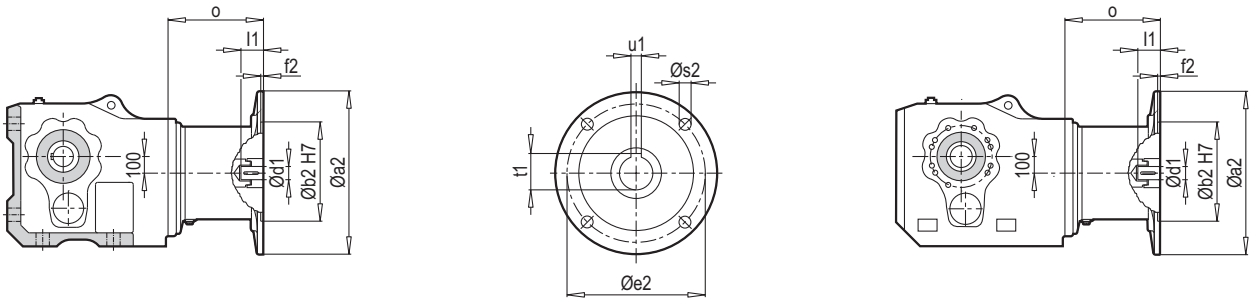


Konik sıktırma / Shrink disc				Altıköşe başlı civata / Hexagonal screw DIN 931 / DIN 933* 10.9Vz		
Tip/Type	M_{2max} (Nm)	s^{h6}	s^{f6}	dxl	Zs	MA (Nm)
KS 150/185	32000	2.66	2.56	M16x80*	14	250

	160 M/L	180 M/L	200 L	225 S/M	250 M [1]	280 M [2]	315 S [2]	315 M [2]
g	323	370	415	456	495	527	-	-
g1	200	248	260	260	392	367	-	-
k1	1367	1426	1521	1603	1563	1780	-	-
k1Bre	1519	1588	1668	1775	1693	-	-	-
o	464	523	618	700	644	888	-	-

Not : (...) İşaretli olan ölçüler Motor markasına göre farklılık gösterir / Note : Dimension which is designated by (...) depends on marks of motor.

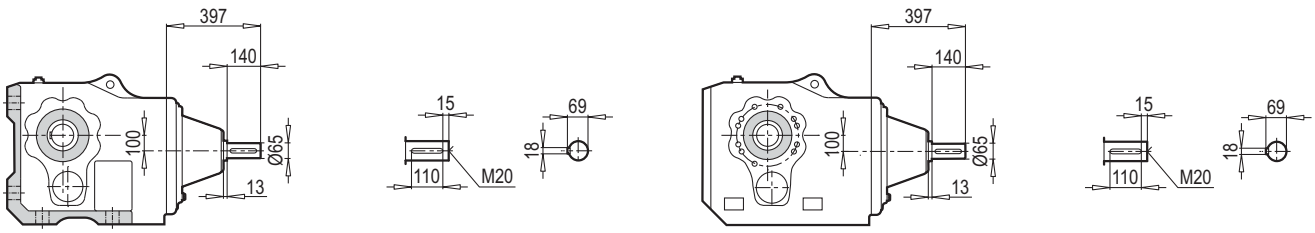
PKD 9390 IEC



Tip / Type	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD 9390	132	300	230	265	5.0	M12	38	80	41.3	10	177
	160	350	250	300	6.0	M16	42	110	45.3	12	266
	180	350	250	300	6.0	M16	48	110	51.8	14	266
	200	400	300	350	6.0	M16	55	110	59.3	16	229
	225	450	350	400	6.0	M16	60	140	64.4	18	303
	250	550	450	500	6.0	M16	65	140	69.4	18	303
	280	550	450	500	6.0	M16	75	140	79.9	20	303
	315	660	550	600	7.0	M20	80	170	85.4	22	381

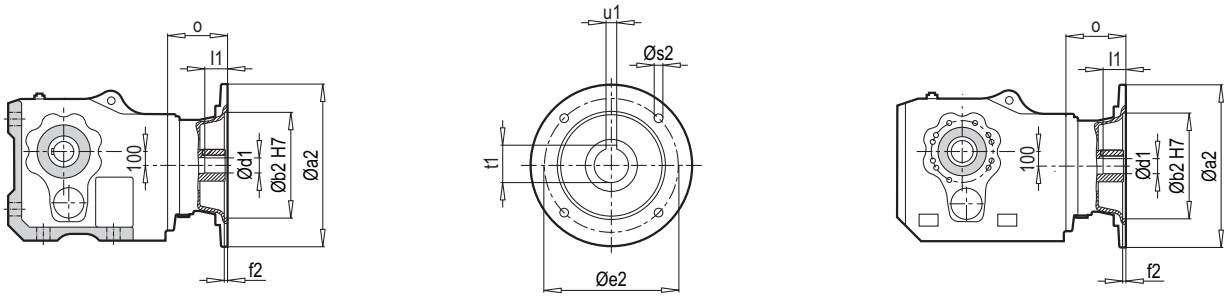
~ Kg	
IEC	PKD 9390
132	1527
160	1554
180	1554
200	1569
225	1585
250	1643
280	1643
315	1728

PKD 9390 W



W ~ Kg	
PKD 9390	1606

PKD 9390 PAM B5/B14



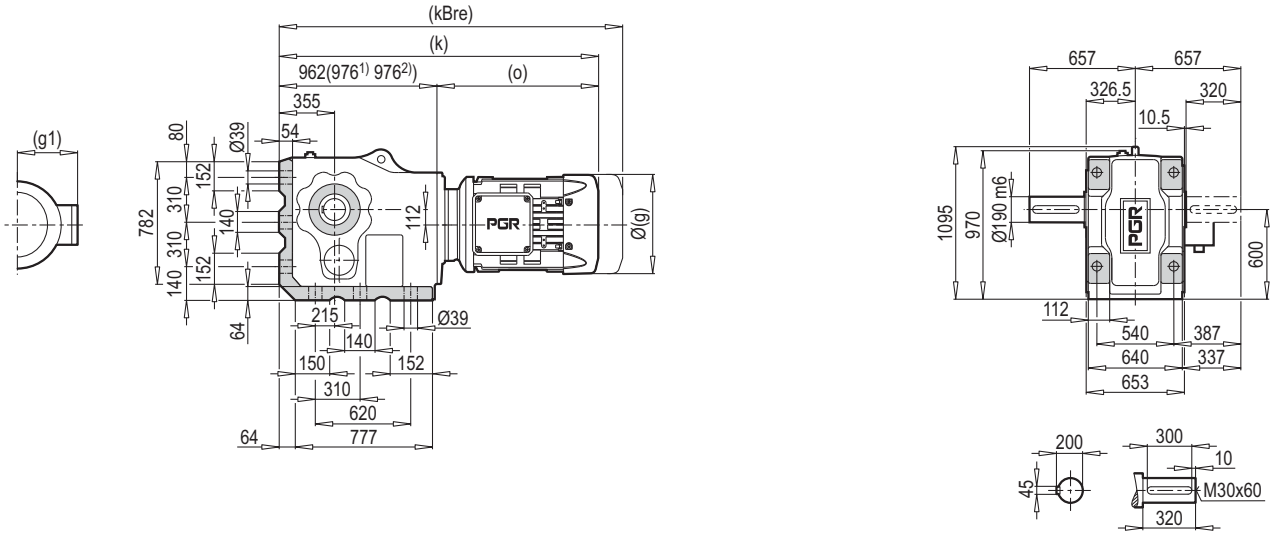
Tip / Type	PAM B5	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD 9390	132	300	230	265	5.0	M12	38	80	41.3	10	110
	160	350	250	300	6.0	M16	42	110	45.3	12	145
	180	350	250	300	6.0	M16	48	110	51.8	14	145
	200	400	300	350	6.0	M16	55	110	59.3	16	157
	225	450	350	400	6.0	M16	60	140	64.4	18	183
	250	550	450	500	6.0	M16	65	140	69.4	18	202
	280	550	450	500	6.0	M16	75	140	79.9	20	202

~ Kg	
PAM B5	PKD 9390
132	1426
160	1443
180	1443
200	1450
225	1460
250	1520
280	1520

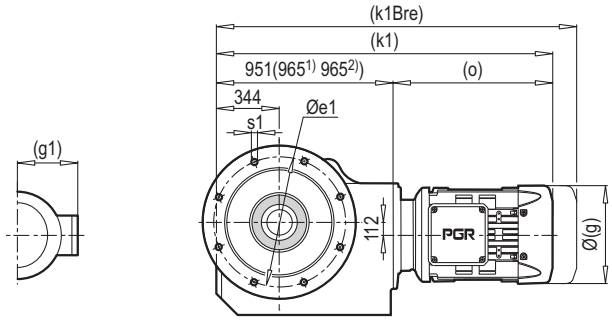
Tip / Type	PAM B14	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD 9390	132	200	130	165	5.0	11	38	80	41.3	10	110

~ Kg	
PAM B14	PKD 9390
132	1421

PKD G 9390 TMA

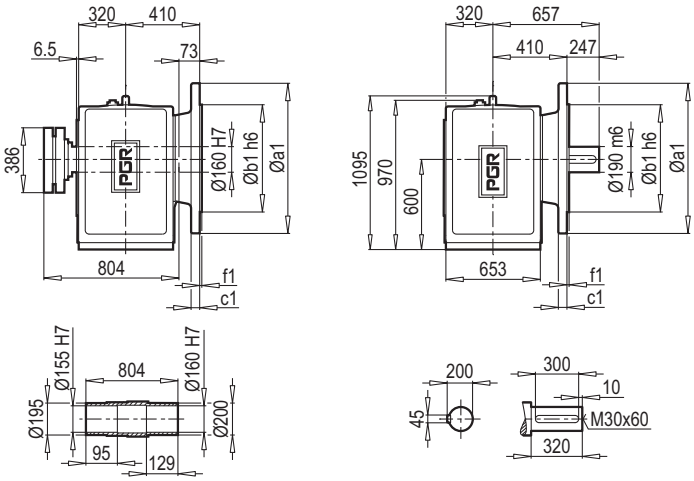


PKD G 9390 DG/KS/B5



a1	b1	c1	e1	f1	s1
660	550	32	600	6	8x22

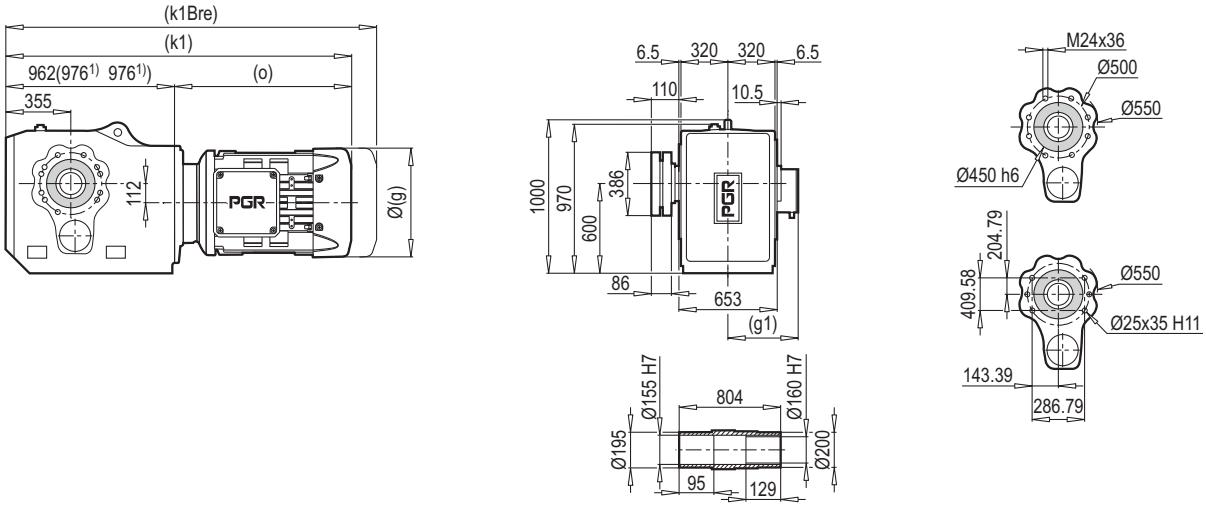
PKD G 9390 TMG/B5



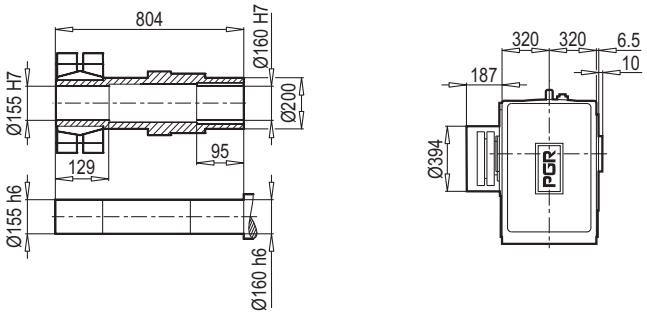
	160 M/L	180 M/L	200 L	225 S/M	250 M [1]	280 M [2]	315 S [2]	315 M [2]
g	323	370	415	456	495	527	-	-
g1	200	248	260	260	392	367	-	-
k	1426	1485	1580	1662	1623	1864	-	-
kBre	1578	1647	1727	1834	1753	-	-	-
o	464	523	618	700	647	888	-	-

Not : (...) İşaretli olan ölçüler Motor markasına göre farklılık gösterir / Note : Dimension which is designated by (...) depends on marks of motor.

PKD G 9390 DG/KS/B14



PKD G 9390 DG/KS

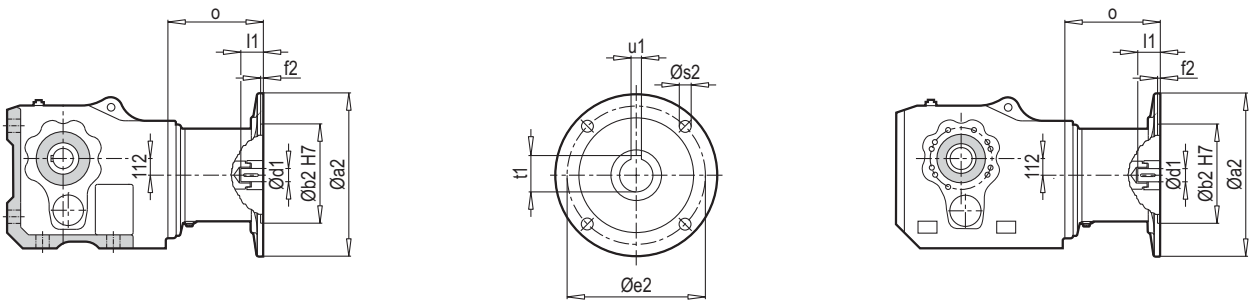


Konik sıktırma / Shrink disc				Altıköşe başlı civata / Hexagonal screw DIN 931 / DIN 933* 10.9Vz		
Tip/Type	M_{2max} (Nm)	s^{h6}	s^{f6}	dxl	Zs	MA (Nm)
KS 150/195	50000	2.71	2.61	M20x100*	14	490

	160 M/L	180 M/L	200 L	225 S/M	250 M 1)	280 M 2)	315 S 2)	315 M 2)
g	323	370	415	456	495	527	-	-
g1	200	248	260	260	392	367	-	-
k1	1426	1485	1580	1662	1623	1864	-	-
k1Bre	1578	1647	1727	1834	1753	-	-	-
o	464	523	618	700	647	888	-	-

Not : (...) İşaretli olan ölçüler Motor markasına göre farklılık gösterir / Note : Dimension which is designated by (...) depends on marks of motor.

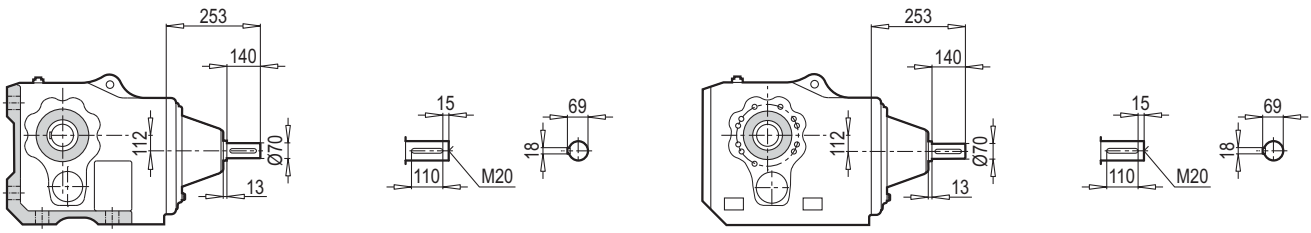
PKD G 9390 IEC



Tip / Type	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD G 9390	132	300	230	265	5.0	M12	38	80	41.3	10	177
	160	350	250	300	6.0	M16	42	110	45.3	12	266
	180	350	250	300	6.0	M16	48	110	51.8	14	266
	200	400	300	350	6.0	M16	55	110	59.3	16	229
	225	450	350	400	6.0	M16	60	140	64.4	18	303
	250	550	450	500	6.0	M16	65	140	69.4	18	303
	280	550	450	500	6.0	M16	75	140	79.9	20	303
	315	660	550	600	7.0	M20	80	170	85.4	22	381

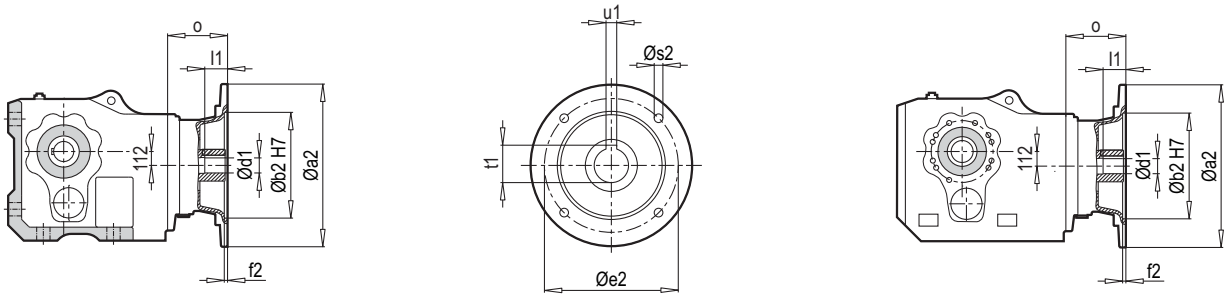
~ Kg	
IEC	PKD G 9390
132	1527
160	1554
180	1554
200	1569
225	1585
250	1643
280	1643
315	1750

PKD G 9390 W



W ~ Kg	
PKD G 9390	1606

PKD G 9390 PAM B5/B14



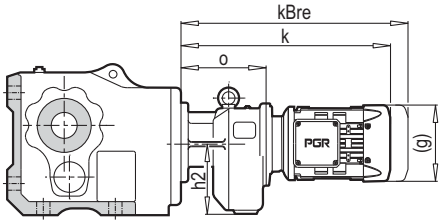
Tip / Type	PAM B5	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD G 9390	132	300	230	265	5.0	M12	38	80	41.3	10	110
	160	350	250	300	6.0	M16	42	110	45.3	12	145
	180	350	250	300	6.0	M16	48	110	51.8	14	145
	200	400	300	350	6.0	M16	55	110	59.3	16	157
	225	450	350	400	6.0	M16	60	140	64.4	18	183
	250	550	450	500	6.0	M16	65	140	69.4	18	202
	280	550	450	500	6.0	M16	75	140	79.9	20	202

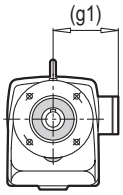
~ Kg	
PAM B5	PKD G 9390
132	1501
160	1518
180	1518
200	1525
225	1535
250	1595
280	1595

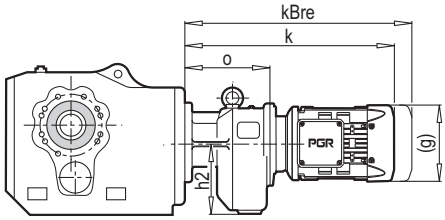
Tip / Type	PAM B14	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD G 9390	132	200	130	165	5.0	11	38	80	41.3	10	110

~ Kg	
PAM B14	PKD G 9390
132	1496

PKD 6390/32 PKD 6390/42
PKD 7390/32 PKD 7390/42



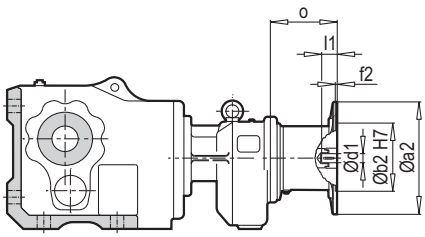


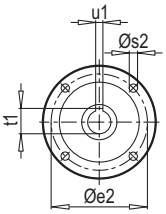


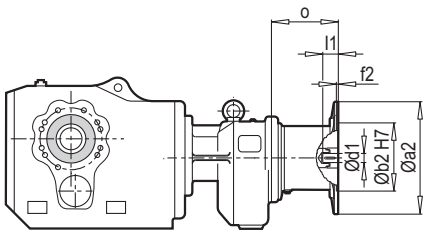
Tip / Type	Motor	g	g1	h2	z	k	kBre
PA/PF 63/22 PA/PF 73/22	71 M 80 M 90 S/L 100 L 112 M 132 S/M	140 159 193 217 232 279	119 127 151 160 168 182	159	220	456 482 505/525 553 598 605/640	516 544 578/598 634 678 713/781
PA/PF 73/32 PA/PF 83/32	90 S/L 100 L 112 M 132 S/M	193 217 232 279	151 160 168 182	179	262	527/547 575 620 627/662	600/620 656 700 735/803

PKD 6390/32 PKD 6390/42
PKD 7390/32 PKD 7390/42

IEC



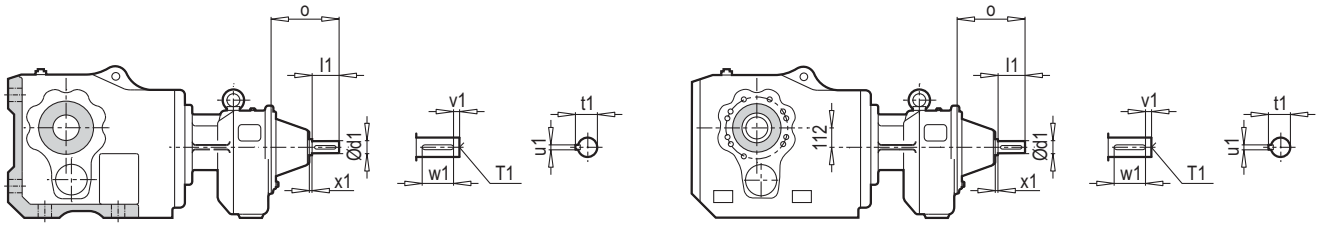




Tip / Type	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	PKD 6390/32 7390/32 o	PKD 6390/42 7390/42 o
PKD 6390/32-7390/32	71	160	110	130	4.0	M8	14	30	16.3	5	88	-
PKD 6390/32-7390/32	80	200	130	165	4.0	M10	19	40	21.8	6	107	-
PKD 6390/32-7390/32-6390/42-7390/42	90	200	130	165	4.0	M10	24	50	27.3	8	107	107
PKD 6390/32-7390/32-6390/42-7390/42	100	250	180	215	5.0	M12	28	60	31.3	8	124	133
PKD 6390/32-7390/32-6390/42-7390/42	112	250	180	215	5.0	M12	28	60	31.3	8	124	133
PKD 6390/32-7390/32-6390/42-7390/42	132	300	230	265	5.0	M12	38	80	41.3	10	156	190
PKD 6390/42-7390/42	160	350	250	300	6.0	M16	42	110	45.3	12	-	194

~ Kg		
IEC	PKD 6390/32 PKD 7390/32	PKD 6390/42 PKD 7390/42
71	380	-
80	384	-
90	384	405
100	389	413
112	389	413
132	398	427
160	-	438

PKD 6390/32 **PKD 6390/42**
PKD 7390/32 **PKD 7390/42** **W**

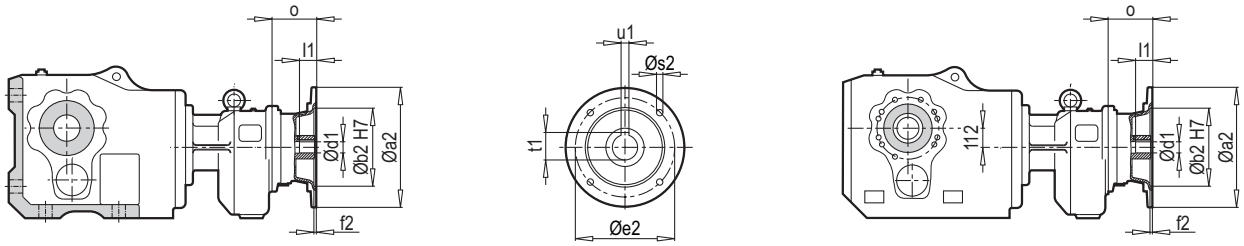


Tip / Type	Ød1	x1	l1	o	T1	t1	u1	v1	w1
PKD 6390/32	24	8	50	172	M8	27.0	8	5	40
PKD 7390/32	24	8	50	172	M8	27.0	8	5	40
PKD 6390/42	38	8	80	213	M12	41.0	10	5	70
PKD 7390/42	38	8	80	213	M12	41.0	10	5	70

W ~ Kg	
PKD 6390/32	382
PKD 7390/32	382
PKD 6390/42	411
PKD 7390/42	411

PKD 6390/32 **PKD 6390/42**
PKD 7390/32 **PKD 7390/42**

PAM B5/B14



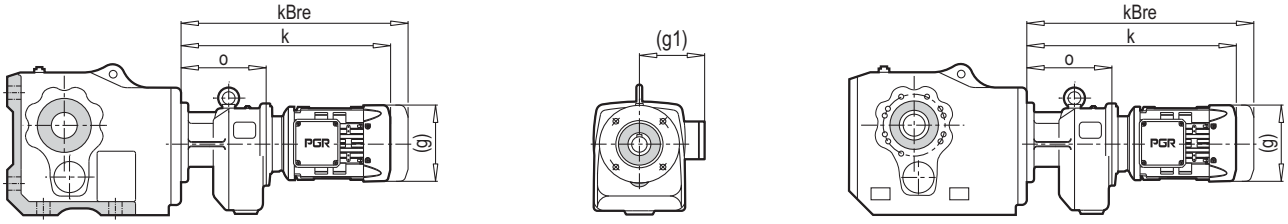
Tip / Type	PAM B5	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD 6390/32-7390/32	71	160	110	130	4.0	M8	14	30	16.3	5	88
PKD 6390/32-7390/32	80	200	130	165	4.0	M10	19	40	21.8	6	72
PKD 6390/32-7390/32-6390/42-7390/42	90	200	130	165	4.0	M10	24	50	27.3	8	72
PKD 6390/32-7390/32-6390/42-7390/42	100	250	180	215	5.0	M12	28	60	31.3	8	75
PKD 6390/32-7390/32-6390/42-7390/42	112	250	180	215	5.0	M12	28	60	31.3	8	75
PKD 6390/32-7390/32-6390/42-7390/42	132	300	230	265	5.0	M12	38	80	41.3	10	94
PKD 6390/42-7390/42	160	350	250	300	6.0	M16	42	110	45.3	12	120

~ Kg				
PAM B5	PKD 6390/32	PKD 6390/42	PKD 7390/32	PKD 7390/42
71	361	-	361	-
80	362	-	362	-
90	362	382	362	382
100	363	383	363	383
112	363	383	363	383
132	373	392	373	392
160	-	400	-	400

Tip / Type	PAM B14	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD 6390/32-7390/32	71	105	70	85	4.0	7	14	30	16.3	5	88
PKD 6390/32-7390/32	80	120	80	100	4.0	7	19	40	21.8	6	72
PKD 6390/32-7390/32-6390/42-7390/42	90	140	95	115	4.0	9	24	50	27.3	8	72
PKD 6390/32-7390/32-6390/42-7390/42	100	160	110	130	5.0	9	28	60	31.3	8	75
PKD 6390/32-7390/32-6390/42-7390/42	112	160	110	130	5.0	9	28	60	31.3	8	75
PKD 6390/32-7390/32-6390/42-7390/42	132	200	130	165	5.0	11	38	80	41.3	10	94

~ Kg				
PAM B14	PKD 6390/32	PKD 6390/42	PKD 7390/32	PKD 7390/42
71	359	-	359	-
80	360	-	360	-
90	360	381	360	381
100	362	382	362	382
112	362	382	362	382
132	366	387	366	387

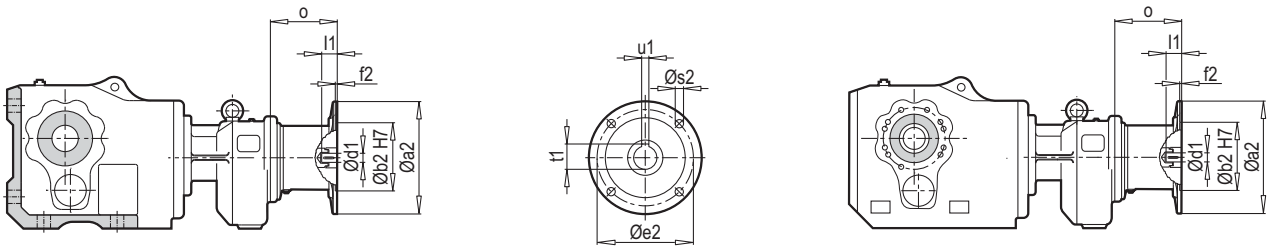
PKD 8390/42 **PKD 8390/52**
PKD G 8390/52
PKD 9390/52



Tip / Type	Motor	g	g1	h2	z	k	kBre
PKD 8390/42	90 S/L 100 L 112 M 132 S/M 160 M/L	193 217 232 279 323	151 160 168 182 200	179	262	527/547 575 620 627/662 767	600/620 656 700 735/803 919
PKD 8390/52 PKD G 8390/52 PKD 9390/52	90 S/L 100 L 112 M 132 S/M 160 M/L 180 M/L	193 217 232 279 323 370	151 160 168 182 200 248	218	301	566/586 614 659 666/701 806 880	639/659 695 739 774 842 958

PKD 8390/42 **PKD 8390/52**
PKD G 8390/52
PKD 9390/52

IEC

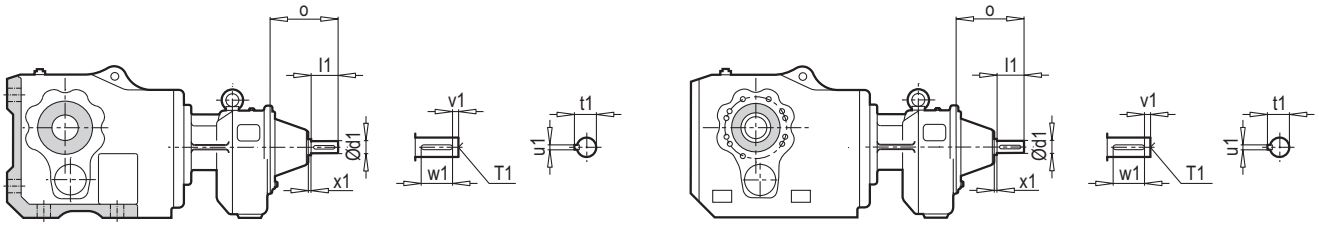


Tip / Type	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	PKD 8390/42 o	PKD 8390/52 o	PKD G8390/52 9390/52 o
PKD 8390/42-G8390/52-9390/52	90	200	130	165	4.0	M10	24	50	27.3	8	109	-	109
PKD 8390/42-8390/52-G8390/52-9390/52	100	250	180	215	5.0	M12	28	60	31.3	8	133	133	133
PKD 8390/42-8390/52-G8390/52-9390/52	112	250	180	215	5.0	M12	28	60	31.3	8	133	133	133
PKD 8390/42-8390/52-G8390/52-9390/52	132	300	230	265	5.0	M12	38	80	41.3	10	190	190	190
PKD 8390/42-8390/52-G8390/52-9390/52	160	350	250	300	6.0	M16	42	110	45.3	12	194	194	194
PKD 8390/52-G8390/52-9390/52	180	350	250	300	6.0	M16	48	110	51.8	14	-	194	194

~ Kg				
IEC	PKD 8390/42	PKD 8390/52	PKD G 8390/52	PKD 9390/52
90	685	-	976	1580
100	692	719	984	1588
112	692	719	984	1588
132	707	734	999	1603
160	718	744	1009	1613
180	-	744	1009	1613

PKD 8390/42 **PKD 8390/52**
PKD G 8390/52
PKD 9390/52

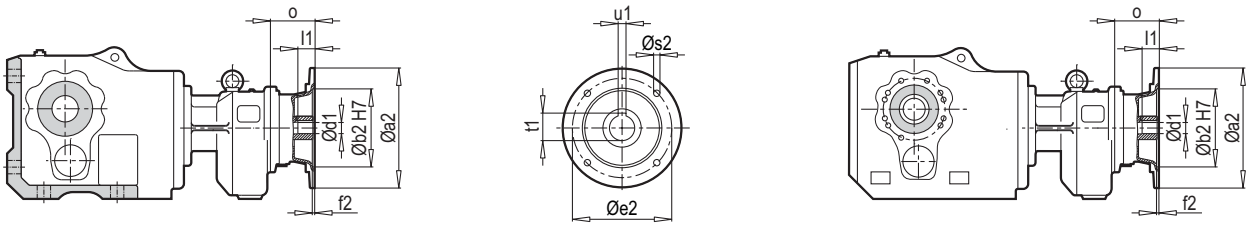
W



W ~ Kg	
PKD 8390/42	690
PKD 8390/52	717
PKD G 8390/52	982
PKD 9390/52	1586

PKD 8390/42 **PKD 8390/52**
PKD G 8390/52
PKD 9390/52

PAM B5/B14



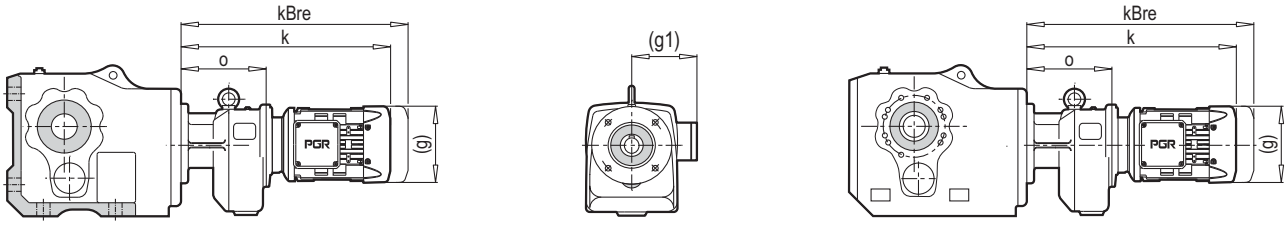
Tip / Type	PAM B5	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD 8390/42-G8390/52-9390/52	90	200	130	165	4.0	M10	24	50	27.3	8	72
PKD 8390/42-8390/52-G8390/52-9390/52	100	250	180	215	5.0	M12	28	60	31.3	8	75
PKD 8390/42-8390/52-G8390/52-9390/52	112	250	180	215	5.0	M12	28	60	31.3	8	75
PKD 8390/42-8390/52-G8390/52-9390/52	132	300	230	265	5.0	M12	38	80	41.3	10	94
PKD 8390/42-8390/52-G8390/52-9390/52	160	350	250	300	6.0	M16	42	110	45.3	12	120
PKD 8390/52-G8390/52-9390/52	180	350	250	300	6.0	M16	48	110	51.8	14	120

~ Kg				
PAM B5	PKD 8390/42	PKD 8390/52	PKD G 8390/52	PKD 9390/52
90	642	-	917	1487
100	643	668	918	1488
112	643	668	918	1488
132	652	677	927	1597
160	660	685	935	1605
180	-	685	935	1605

Tip / Type	PAM B14	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD 8390/42-G8390/52-9390/52	90	140	95	115	4.0	9	24	50	27.3	8	72
PKD 8390/42-8390/52-G8390/52-9390/52	100	160	110	130	5.0	9	28	60	31.3	8	75
PKD 8390/42-8390/52-G8390/52-9390/52	112	160	110	130	5.0	9	28	60	31.3	8	75
PKD 8390/42-8390/52-G8390/52-9390/52	132	200	130	165	5.0	11	38	80	41.3	10	94

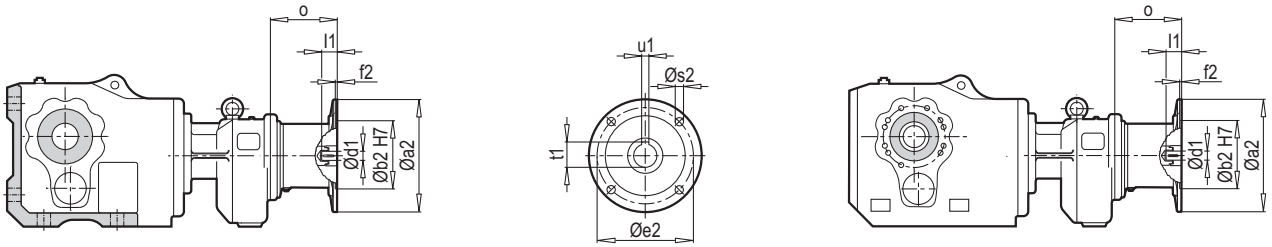
~ Kg				
PAM B14	PKD 8390/42	PKD 8390/52	PKD G 8390/52	PKD 9390/52
90	641	-	916	1486
100	642	667	917	1487
112	642	667	917	1487
132	647	672	923	1492

PKD G 9390/62 PKD G 9390/63



Tip / Type	Motor	g	g1	h2	z	k	kBre
PKD G9390/62	100 L 112 M 132 S/M 160 M/L 180 M/L 200 L 225 S/M	217 232 279 323 370 415 456	160 168 182 200 248 260 260	245	402	714 762 765/800 866 925 1020 1102	795 842 873/941 1018 1087 1167 1274
PKD G9390/63	90 S/L 100 L 112 M 132 S/M 160 M/L 180 M/L	193 217 232 279 323 370	151 160 168 182 200 248	245	376	641/661 689 734 741/776 881 955	714/734 770 814 849/917 1033 1117

PKD G 9390/62 PKD G 9390/63 IEC

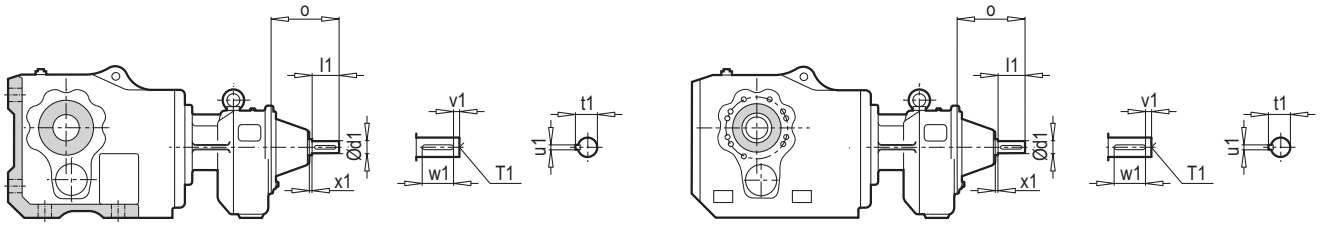


Tip / Type	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	PKD G 9390/62 o	PKD G 9390/63 o
PKD G9390/63	90	200	130	165	4.0	M10	24	50	27.3	8	-	109
PKD G9390/62-G9390/63	100	250	180	215	5.0	M12	28	60	31.3	8	127	133
PKD G9390/62-G9390/63	112	250	180	215	5.0	M12	28	60	31.3	8	127	133
PKD G9390/62-G9390/63	132	300	230	265	5.0	M12	38	80	41.3	10	177	190
PKD G9390/62-G9390/63	160	350	250	300	6.0	M16	42	110	45.3	12	266	194
PKD G9390/62-G9390/63	180	350	250	300	6.0	M16	48	110	51.8	14	266	194
PKD G9390/62	200	400	300	350	6.0	M16	55	110	59.3	16	229	-
PKD G9390/62	225	450	350	400	6.0	M16	60	140	64.4	18	303	-

~ kg		
IEC	PKD G 9390/62	PKD G 9390/63
90	-	1886
100	1902	1894
112	1902	1894
132	1916	1908
160	1942	1919
180	1942	1919
200	1957	-
225	1972	-

PKD G 9390/62 **PKD G 9390/63**

W

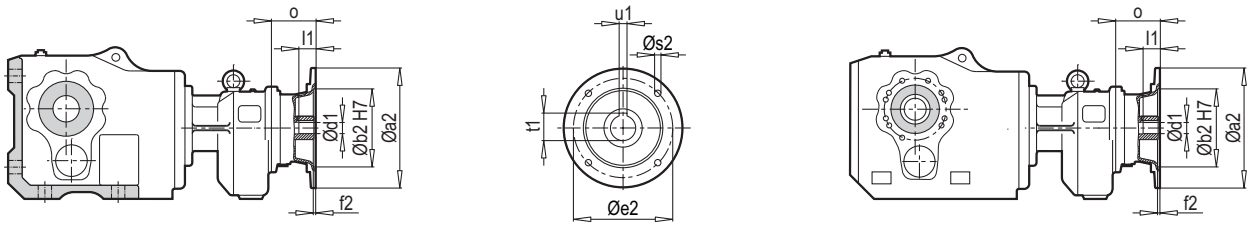


Tip / Type	Ød1	x1	l1	o	T1	t1	u1	v1	w1
PKD G 9390/62	42	8	110	288	M16	45.0	12	10	90
PKD G 9390/63	38	8	80	213	M12	41.0	10	5	70

W ~ Kg	
PKD G 9390/62	1891
PKD G 9390/63	1915

PKD G 9390/62 **PKD G 9390/63**

PAM B5/B14



Tip / Type	PAM B5	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o (62)	o (63)
PKD G9390/63	90	200	130	165	4.0	M10	24	50	27.3	8	-	72
PKD G9390/62-G9390/63	100	250	180	215	5.0	M12	28	60	31.3	8	75	75
PKD G9390/62-G9390/63	112	250	180	215	5.0	M12	28	60	31.3	8	75	75
PKD G9390/62-G9390/63	132	300	230	265	5.0	M12	38	80	41.3	10	110	94
PKD G9390/62-G9390/63	160	350	250	300	6.0	M16	42	110	45.3	12	145	120
PKD G9390/62-G9390/63	180	350	250	300	6.0	M16	48	110	51.8	14	145	120
PKD G9390/62	200	400	300	350	6.0	M16	55	110	59.3	16	157	-
PKD G9390/62	225	450	350	400	6.0	M16	60	140	64.4	18	183	-

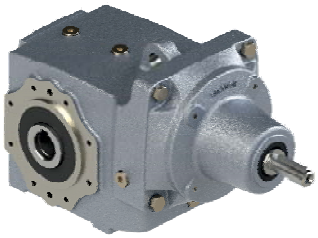
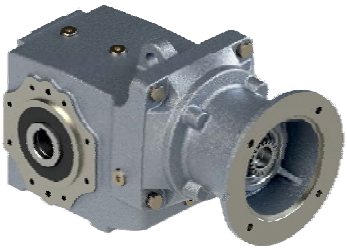
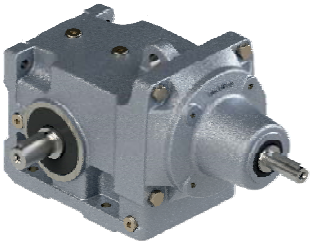
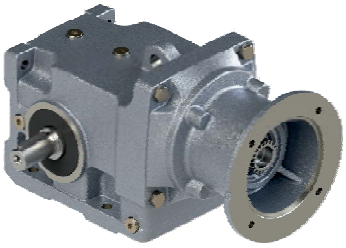
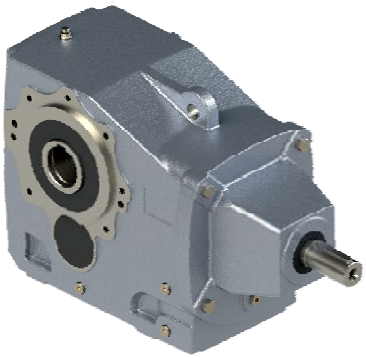
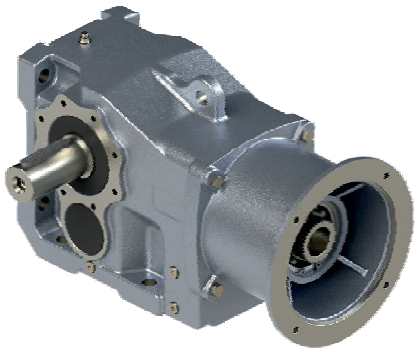
~ Kg		
PAM B5	PKD G 9390/62	PKD G 9390/63
90	-	1879
100	1879	1880
112	1879	1880
132	1890	1889
160	1907	1897
180	1907	1897
200	1914	-
225	1924	-

Tip / Type	PAM B14	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o (62)	o (63)
PKD G9390/63	90	140	95	115	4.0	9	24	50	27.3	8	-	72
PKD G9390/62-G9390/63	100	160	110	130	5.0	9	28	60	31.3	8	75	75
PKD G9390/62-G9390/63	112	160	110	130	5.0	9	28	60	31.3	8	75	75
PKD G9390/62-G9390/63	132	200	130	165	5.0	11	38	80	41.3	10	110	94

~ Kg		
PAM B14	PKD G 9390/62	PKD G 9390/63
90	-	1878
100	1878	1879
112	1878	1879
132	1885	1884

W - PAM - IEC Adaptörü Seçim Tabloları

Selection Tables of W - PAM - IEC Adapters

PKD

TR TEKNİK AÇIKLAMALAR

W ve IEC adaptörü için yapısal performans tabloları:

EN TECHNICAL EXPLANATIONS

Notify about performance tables for W and IEC adapter type

PKD 3390 ⟶ **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.

Operating factors f_B with the IEC version are identical to the those of the same motor output with direct motor mounting. The f_B values are listed on the pages specified.

IEC motor büyüklükleri ve IEC standart çıkışları DIN 50347' e göredir.

IEC motor sizes and IEC standart outputs as per DIN EN 50347

Tip / Type	i_{ges}	4-pol. 50 Hz 1400 rpm n_2 [min^{-1}]	M_{amax} f_B =1 4 - pol. [Nm]	Max. Giriş Gücü / Max. Input Power P_{1max} W $f_B \geq 1$ 4 - pol. 1400 rpm [kW]	6 - pol. 930 rpm [kW]	8 - pol. 700 rpm [kW]	12 - pol. 465 rpm [kW]	IEC - PAM f_B ⇨ 71	80	90*	100*	112*	DIN 42677' ye göre IEC Adaptöre Bağlanacak Motor Boyutu / IEC Motor Frame Sizes And Rated Powers According to DIN 42677
PKD 3390	296.10	4.70	1550	0.77	0.51	0.38	0.25	71	80	90*			
	250.01	5.60	1550	0.91	0.60	0.45	0.30	71	80	90*			
	234.13	6.00	1550	0.97	0.64	0.49	0.32		80	90*			
	197.69	7.10	1550	1.15	0.76	0.57	0.38		80	90*			
	188.22	7.40	1550	1.21	0.80	0.60	0.40			90*	100*	112*	
	158.92	8.80	1550	1.43	0.95	0.71	0.47			90*	100*	112*	
	139.49	10.00	1550	1.63	1.08	0.81	0.54						
				.	.								
				.	.	*4.60*	*3.04*						
				.	.	*4.60*	*3.04*						
				9.20	*6.07*								
				9.20	*6.07*								

Tip W azami tahrik gücü hesaplanırken italik olmayan değerler alınmıştır. P_{1max} ile f_B = 1

Max. drive power type W non italic indicates: with P_{1max} the operating factor f_B =1

Yıldız işareti : Dikkat
Tip W sütunundaki P_{1max} değerlerini aşmamalıdır.

Asterix indicates:
caution, don't exceed the max. driver power P_{1max} as per Type W column

P_{1max} hesaplanırken *italik* olan değerlerde f_B >1 alınmıştır.

Italic indicates: with P_{1max} the operating factor f_B > 1

71	80
71	80
	80
	80

Rakamlı alanlar IEC adaptörünün, IEC motor büyüklüğü ve tahvil oranına uygun olduğunu belirtir.

Shaded field indicates IEC adapter is available for this IEC motor size and this reduction ratio

Max.çıkış momenti
Max.output torque type

Çıkış Devri
Output speed

Redüktör Tahvili
Reduction ratio

Redüktör Tipi
Gear unit type

Tip Type	Tahvil Reduction i_{ges}	Çıkış Hızı Output speed 4-pol. 50 Hz 1400 rpm n_2 [min^{-1}]	M_{amax} f_B =1 4 - pol. [Nm]	Max. Giriş Gücü / Max. Input Power P_{1max} W $f_B \geq 1$ 4 - pol. 1400 rpm [kW]	6 - pol. 930 rpm [kW]	8 - pol. 700 rpm [kW]	12 - pol. 465 rpm [kW]	IEC - PAM f_B ⇨ 71 - 110							DIN 42677' ye Göre IEC Adaptöre Bağlanacak Motor Boyutu IEC Motor Frame Sizes And Rated Powers According to DIN 42677
PKD A 0290 **W** mm 116 **+** **IEC - PAM** mm 116-117	**54.62**	**25.6**	50	0.13	0.09	0.07	0.04	63*							
	47.79	**29.3**	45	0.14	0.09	0.07	0.05	63*							
	39.64	**35.3**	80	0.30	0.20	0.15	0.10	63	71*						
	34.69	**40.4**	75	0.32	0.21	0.16	0.11	63	71*						
	30.13	**46.5**	70	0.34	0.23	0.17	0.11	63	71*	80*					
	26.36	**53.1**	90	0.50	0.33	0.25	0.17	63	71	80*					
	23.26	**60.2**	90	0.57	0.38	0.28	0.19	63	71	80*					
	20.35	**68.8**	90	0.65	0.43	0.32	0.22	63	71	80*					
	17.58	**79.7**	60	0.50	0.33	0.25	0.17	63	71	80*					
	13.57	**103.2**	75	0.81	0.54	0.41	0.27	63	71	80					
	11.05	126.7	90	1.19	0.79	0.60	0.40	63	71	80					
	9.67	144.8	90	1.36	0.91	0.68	0.45	63	71	80					
	8.99	155.8	90	1.47	0.98	0.73	0.49	63	71	80					
	7.86	178.1	90	*1.50*	*0.99*	*0.75*	*0.50*	63	71	80					
	6.45	217.2	85	*1.50*	*0.99*	*0.75*	*0.50*	63	71	80					
	5.78	242.2	80	*1.50*	*0.99*	*0.75*	*0.50*	63	71	80					
	5.24	267.1	80	*1.50*	*0.99*	*0.75*	*0.50*	63	71	80					
	3.85	363.2	80	*1.50*	*0.99*	*0.75*	*0.50*	63	71	80					
PKD B 0290 **W** mm 120 **+** **IEC - PAM** mm 120-121	**72.24**	**19.4**	55	0.11	0.07	0.06	0.04	63*							
	63.21	**22.1**	50	0.12	0.08	0.06	0.04	63*							
	53.52	**26.2**	90	0.25	0.16	0.12	0.08	63	71*						
	46.83	**29.9**	75	0.23	0.16	0.12	0.08	63	71*						
	41.23	**34.0**	115	0.41	0.27	0.20	0.14	63	71	80*					
	36.08	**38.8**	100	0.41	0.27	0.20	0.13	63	71	80*					
	32.24	**43.4**	120	0.55	0.36	0.27	0.18	63	71	80*					
	28.21	**49.6**	120	0.62	0.41	0.31	0.21	63	71	80*					
	25.99	**53.9**	120	0.68	0.45	0.34	0.22			80*	90*				
	22.74	**61.6**	120	0.77	0.51	0.39	0.26			80	90*				
	18.81	**74.4**	85	0.66	0.44	0.33	0.22	63	71	80*					
	15.62	89.6	120	1.13	0.75	0.56	0.37	63	71	80	90*				
	13.48	103.9	120	1.31	0.87	0.65	0.43	63	71	80	90*				
	11.79	118.7	115	1.43	0.95	0.71	0.47	63	71	80	90*				
	10.35	135.3	110	*1.50*	*0.99*	0.75	*0.50*	63	71	80	90				
	9.06	154.6	105	*1.50*	*0.99*	*0.75*	*0.50*	63	71	80	90				
	8.00	174.9	100	*1.50*	*0.99*	*0.75*	*0.50*	63	71	80	90				
	7.05	198.6	95	*1.50*	*0.99*	*0.75*	*0.50*	63	71	80	90				
	6.04	231.9	90	*1.50*	*0.99*	*0.75*	*0.50*	63	71	80	90				
	5.34	262.3	85	*1.50*	*0.99*	*0.75*	*0.50*	63	71	80	90				
	4.77	293.8	80	*1.50*	*0.99*	*0.75*	*0.50*	63	71	80	90				
	4.11	340.5	75	*1.50*	*0.99*	*0.75*	*0.50*	63	71	80	90				

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

Tip Type	Tahvil Reduction i_{ges}	Çıkış Hızı Output speed 4-pol. 50 Hz 1400 rpm n_2 [min^{-1}]	M_{amax} f_B =1 4 - pol. [Nm]	Max. Giriş Gücü / Max. Input Power P_{1max} W $f_B \geq 1$ 4 - pol. 1400 rpm [kW]	6 - pol. 930 rpm [kW]	8 - pol. 700 rpm [kW]	12 - pol. 465 rpm [kW]	IEC - PAM f_B ⇨ 71-110 DIN 42677' ye Göre IEC Adaptöre Bağlanacak Motor Boyutu IEC Motor Frame Sizes And Rated Powers According to DIN 42677							
PKD C 1290 W mm 124 + IEC - PAM mm 124-125	**62.77**	**22.3**	125	0.29	0.19	0.15	0.10	63	71*						
	54.92	**25.5**	110	0.29	0.20	0.15	0.10	63	71*						
	49.69	**28.2**	170	0.50	0.33	0.25	0.17	63	71	80*					
	43.48	**32.2**	150	0.51	0.34	0.25	0.17	63	71	80*					
	38.59	**36.3**	190	0.72	0.48	0.36	0.24	63	71	80*					
	33.76	**41.5**	185	0.80	0.53	0.40	0.27	63	71	80					
	31.27	**44.8**	190	0.89	0.59	0.45	0.30			80	90*				
	27.36	**51.2**	230	1.23	0.82	0.62	0.41			80	90*				
	24.32	**57.6**	210	1.27	0.84	0.63	0.42			80	90*				
	21.94	**63.8**	195	1.30	0.87	0.65	0.43			80	90*	100*			
	19.19	**72.9**	230	1.76	1.17	0.88	0.58			80	90	100*			
	17.06	**82.1**	230	1.98	1.31	0.99	0.66			80	90	100*			
	14.66	95.5	190	1.90	1.26	0.95	0.63	63	71	80	90				
	12.99	107.7	195	2.20	1.46	1.10	0.73	63	71	80	90	100*			
	11.37	123.1	195	2.51	1.67	1.26	0.84	63	71	80	90	100*			
	10.81	129.5	180	2.44	1.62	1.22	0.81	63	71	80	90	100*			
	9.47	147.8	175	2.71	1.80	1.35	0.90	63	71	80	90	100*			
	8.29	169.0	175	*3.00*	*1.98*	*1.50*	0.99	63	71	80	90	100			
	7.29	192.0	165	*3.00*	*1.98*	*1.50*	0.99	63	71	80	90	100			
	6.48	216.0	160	*3.00*	*1.98*	*1.50*	0.99	63	71	80	90	100			
	5.97	234.4	155	*3.00*	*1.98*	*1.50*	0.99			80	90	100			
	5.31	263.6	145	*3.00*	*1.98*	*1.50*	0.99			80	90	100			
PKD F 4290 W mm 128 + IEC - PAM mm 128-129	**59.20**	**23.6**	375	0.93	0.62	0.46	0.31	63	71	80					
	51.80	**27.0**	345	0.98	0.65	0.49	0.32	63	71	80					
	48.01	**29.2**	375	1.15	0.76	0.57	0.38			80	90*				
	42.01	**33.3**	340	1.19	0.79	0.59	0.39			80	90*				
	37.34	**37.5**	330	1.30	0.86	0.65	0.43			80	90*				
	34.15	**41.0**	380	1.63	1.08	0.82	0.54			80	90	100*	112*		
	29.88	**46.8**	340	1.67	1.11	0.83	0.55			80	90	100*	112*		
	26.56	52.7	330	1.82	1.21	0.91	0.60			80	90	100*	112*		
	23.26	60.2	370	2.33	1.55	1.17	0.77					100*	112*	132*	
	20.35	68.8	340	2.45	1.63	1.22	0.81					100*	112*	132*	
	18.09	77.4	320	2.59	1.72	1.30	0.86					100*	112*	132*	
	16.08	87.1	370	3.37	2.24	1.69	1.12	63	71	80	90	100	112*	132*	
	14.07	99.5	340	3.54	2.35	1.77	1.18	63	71	80	90	100	112*	132*	
	12.63	110.8	340	3.95	2.62	1.97	1.31	63	71	80	90	100	112*	132*	
	10.98	127.5	335	4.47	2.97	2.24	1.48			80	90	100	112	132*	
	9.76	143.4	320	4.80	3.19	2.40	1.60			80	90	100	112	132*	
	8.67	161.4	320	5.41	3.59	2.70	1.80			80	90	100	112	132*	
	7.71	181.6	310	5.90	3.92	2.95	1.96					100	112	132*	
	6.80	205.9	295	6.36	4.23	3.18	2.11					100	112	132*	
	5.92	236.5	280	6.93	4.61	3.47	2.30					100	112	132*	
	5.45	256.8	265	7.13	4.73	3.56	2.37							132*	
	4.85	288.9	265	8.02	5.33	4.01	2.66							132*	

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

Tip Type	Tahvil Reduction i_{ges}	Çıkış Hızı Output speed 4-pol. 50 Hz 1400 rpm n_2 [min^{-1}]	M_{amax} f_B =1 4 - pol. [Nm]	Max. Giriş Gücü / Max. Input Power P_{1max} W $f_B \geq 1$ 4 - pol. 1400 rpm [kW]	6 - pol. 930 rpm [kW]	8 - pol. 700 rpm [kW]	12 - pol. 465 rpm [kW]	IEC - PAM f_B ⇨ 71 - 110							DIN 42677' ye Göre IEC Adaptöre Bağlanacak Motor Boyutu IEC Motor Frame Sizes And Rated Powers According to DIN 42677
PKD 1490 W mm 140 + IEC - PAM mm 140-141	1690.91	0.83	400	0.03	0.02	0.02	0.01	63*	71*						
	1412.66	1.00	400	0.04	0.03	0.02	0.01	63*	71*						
	1255.89	1.10	400	0.05	0.03	0.02	0.02	63*	71*						
	848.31	1.70	400	0.07	0.05	0.03	0.02	63*	71*						
	668.11	2.10	400	0.09	0.06	0.04	0.03	63*	71*						
	590.51	2.40	400	0.10	0.07	0.05	0.03	63*	71*						
	440.14	3.20	400	0.13	0.09	0.07	0.04	63*	71*						
	320.68	4.40	400	0.18	0.12	0.09	0.06	63	71*						
	282.43	5.00	400	0.21	0.14	0.10	0.07	63	71*						
	213.26	6.60	400	0.27	0.18	0.14	0.09	63	71*						
	178.17	7.90	400	0.33	0.22	0.16	0.11	63	71*						
	141.69	9.90	400	0.41	0.27	0.21	0.14	63	71						
PKD 1390 W mm 136 + IEC - PAM mm 136-137	332.51	4.20	400	0.18	0.11	0.09	0.06	63	71*						
	280.80	5.00	400	0.21	0.14	0.10	0.07	63	71*						
	246.59	5.70	400	0.24	0.16	0.12	0.08	63	71*						
	206.01	6.80	400	0.28	0.19	0.14	0.09	63	71*						
	183.15	7.60	400	0.32	0.21	0.16	0.11		71*	80*					
	166.82	8.40	400	0.35	0.23	0.18	0.12	63	71*						
	140.87	9.90	400	0.42	0.28	0.21	0.14	63	71						
	123.71	11.30	400	0.47	0.31	0.24	0.16	63	71						
	109.98	12.70	400	0.53	0.35	0.27	0.18		71	80*					
	97.43	**14.40**	400	0.60	0.40	0.30	0.20	63	71	80*	90*				
	86.12	**16.30**	400	0.68	0.45	0.34	0.23	63	71	80*	90*				
	76.68	**18.30**	400	0.76	0.51	0.38	0.25	63	71	80	90*	100*	112*		
	62.74	**22.30**	400	0.93	0.62	0.47	0.31	63	71	80	90*	100*	112*		
	55.26	**25.30**	400	1.06	0.70	0.53	0.35	63	71	80	90*	100*	112*		
	48.92	**28.60**	400	1.20	0.80	0.60	0.40	63	71	80	90*	100*	112*		
	41.72	**33.60**	400	1.41	0.93	0.70	0.47	63	71	80	90*	100*	112*		
	34.86	**40.20**	400	1.68	1.12	0.84	0.56	63	71	80	90	100*	112*		
	31.48	**44.50**	400	1.86	1.24	0.93	0.62	63	71	80	90	100*	112*		
	27.72	**50.50**	400	2.12	1.41	1.06	0.70	63	71	80	90	100*	112*		
	24.55	**57.00**	400	2.39	1.59	1.19	0.79	63	71	80	90	100*	112*		
	20.93	**66.90**	400	2.80	1.86	1.40	0.93	63	71	80	90	100*	112*		
	17.49	**80.00**	380	3.19	2.12	1.59	1.06	63	71	80	90	100*	112*		
	15.27	**91.70**	380	3.65	2.42	1.82	1.21	63	71	80	90	100*	112*		
	12.27	**114.10**	220	2.63	1.75	1.31	0.87	63	71	80	90	100*	112*		
	10.86	**128.90**	200	2.70	1.79	1.35	0.90	63	71	80	90	100*	112*		
	9.26	**151.20**	195	3.09	2.05	1.54	1.03	63	71	80	90	100	112*		
	8.09	**173.10**	180	3.26	2.17	1.63	1.08	63	71	80	90	100	112*		

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

Tip Type	Tahvil Reduction i_{ges}	Çıkış Hızı Output speed 4-pol. 50 Hz 1400 rpm n_2 [min^{-1}]	M_{amax} f_B =1 4 - pol. [Nm]	Max. Giriş Gücü / Max. Input Power P_{1max} W $f_B \geq 1$ 4 - pol. 1400 rpm [kW]	6 - pol. 930 rpm [kW]	8 - pol. 700 rpm [kW]	12 - pol. 465 rpm [kW]	IEC - PAM f_B ⇨ 71 - 110							DIN 42677' ye Göre IEC Adaptöre Bağlanacak Motor Boyutu IEC Motor Frame Sizes And Rated Powers According to DIN 42677
PKD G 1490 W mm 148 + IEC - PAM mm 148-149	1412.66	1.00	610	0.06	0.04	0.03	0.02	63*	71*						
	1255.89	1.10	610	0.07	0.05	0.04	0.02	63*	71*						
	630.06	2.20	610	0.14	0.09	0.07	0.05	63*	71*						
	558.17	2.50	610	0.16	0.11	0.08	0.05	63*	71*						
	493.33	2.80	610	0.18	0.12	0.09	0.06	63	71*						
	367.72	3.80	610	0.24	0.16	0.12	0.08	63	71*						
	267.91	5.20	610	0.33	0.22	0.17	0.11	63	71*						
	235.95	5.90	610	*0.37*	*0.24*	*0.19*	*0.12*	63	71						
	178.17	7.90	570	*0.37*	*0.24*	*0.19*	*0.12*	63	71						
	134.41	10.40	430	*0.37*	*0.24*	*0.19*	*0.12*	63	71						
PKD G 1390 W mm 144 + IEC - PAM mm 144-145	277.79	5.00	590	0.31	0.21	0.16	0.10	63	71						
	234.59	6.00	590	0.37	0.24	0.18	0.12	63	71						
	206.01	6.80	610	0.43	0.29	0.22	0.14	63	71						
	183.15	7.60	610	0.49	0.32	0.24	0.16		71	80*					
	149.85	9.30	610	0.60	0.40	0.30	0.20		71	80*					
	142.45	9.80	610	0.63	0.42	0.31	0.21		71	80*					
	116.55	12.00	610	0.77	0.51	0.38	0.25		71	80					
	91.88	15.20	500	0.80	0.53	0.40	0.26		71	80					
	81.40	**17.20**	600	1.08	0.72	0.54	0.36	63	71	80	90*				
	71.94	**19.50**	600	1.22	0.81	0.61	0.41	63	71	80	90*				
	64.06	**21.90**	610	1.40	0.93	0.70	0.46	63	71	80	90*	100*	112		
	52.42	**26.70**	610	1.71	1.13	0.85	0.57	63	71	80	90	100*	112*		
	46.16	**30.30**	610	1.94	1.29	0.97	0.64	63	71	80	90	100*	112*		
	40.87	**34.30**	600	2.15	1.43	1.08	0.71	63	71	80	90	100*	112*		
	34.86	**40.20**	600	2.52	1.68	1.26	0.84	63	71	80	90	100*	112*		
	30.44	**46.00**	600	2.89	1.92	1.44	0.96	63	71	80	90	100*	112*		
	26.30	**53.20**	600	3.34	2.22	1.67	1.11	63	71	80	90	100	112*		
	23.16	**60.40**	520	3.29	2.19	1.65	1.09	63	71	80	90	100	112*		
	20.51	**68.30**	580	4.00	2.64	2.00	1.32	63	71	80	90	100	112		
	17.49	**80.00**	540	4.00	2.64	2.00	1.32	63	71	80	90	100	112		
	15.27	**91.70**	520	4.00	2.64	2.00	1.32	63	71	80	90	100	112		
	12.49	**112.10**	520	4.00	2.64	2.00	1.32	63	71	80	90	100	112		

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

Tip Type	Tahvil Reduction i_{ges}	Çıkış Hızı Output speed 4-pol. 50 Hz 1400 rpm n_2 [min^{-1}]	M_{amax} f_B =1 4 - pol. [Nm]	Max. Giriş Gücü / Max. Input Power P_{1max} W $f_B \geq 1$ 4 - pol. 1400 rpm [kW]	6 - pol. 930 rpm [kW]	8 - pol. 700 rpm [kW]	12 - pol. 465 rpm [kW]	IEC - PAM f_B ⇨ 71-110							DIN 42677' ye Göre IEC Adaptöre Bağlanacak Motor Boyutu IEC Motor Frame Sizes And Rated Powers According to DIN 42677
PKD H 5290 W mm 132 + **IEC - PAM** mm 132-133	63.96	21.9	460	1.05	0.70	0.53	0.35	63	71	80					
	55.96	25.0	400	1.05	0.70	0.52	0.35	63	71	80					
	52.42	26.7	575	1.61	1.07	0.80	0.53			80	90				
	45.86	30.5	505	1.61	1.07	0.81	0.54			80	90				
	40.77	34.3	450	1.62	1.07	0.81	0.54			80	90				
	36.59	38.3	660	2.64	1.76	1.32	0.88			80	90	100*	112*	132*	
	32.02	43.7	630	2.88	1.92	1.44	0.96			80	90	100*	112*	132*	
	28.46	49.2	600	3.09	2.05	1.55	1.03			80	90	100	112*	132*	
	25.37	55.2	650	3.76	2.49	1.88	1.25					100	112*	132*	
	22.20	63.1	620	4.09	2.72	2.05	1.36					100	112	132*	
	19.73	70.9	600	4.46	2.96	2.23	1.48					100	112	132*	
	17.84	78.5	585	4.81	3.19	2.40	1.60	63	71	80	90	100	112	132*	
	15.61	89.7	585	5.49	3.65	2.75	1.82	63	71	80	90	100	112	132*	
	13.88	100.9	535	5.65	3.75	2.83	1.88			80	90	100	112	132*	
	12.40	112.9	515	6.09	4.04	3.04	2.02			80	90	100	112	132*	
	10.85	129.0	515	6.96	4.62	3.48	2.31			80	90	100	112	132*	
	9.64	145.3	495	7.53	5.00	3.77	2.50					100	112	132	
	8.56	163.5	495	8.47	5.63	4.24	2.81					100	112	132	
	7.59	184.5	475	*9.20*	*6.07*	*4.60*	*3.04*					100	112	132	
	6.42	217.9	450	*9.20*	*6.07*	*4.60*	*3.04*					100	112	132	
	6.11	229.1	420	*9.20*	*6.07*	*4.60*	*3.04*								
	5.43	257.7	425	*9.20*	*6.07*	*4.60*	*3.04*								
	4.80	291.9	410	*9.20*	*6.07*	*4.60*	*3.04*								

	IEC - PAM bağlantısı yoktur - No IEC - PAM assembling on empty fields
63	**IEC - PAM bağlantısı yapılır -** IEC - PAM assembling available on numbered fields
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Tip / Type	Tahvil Reduction i_{ges}	Çıkış Hızı Output speed 4-pol. 50 Hz 1400 rpm n_2 [min^{-1}]	M_{amax} f_B =1 4 - pol. [Nm]	Max. Giriş Gücü / Max. Input Power P_{1max} W $f_B \geq 1$ 4 - pol. 1400 rpm [kW]	6 - pol. 930 rpm [kW]	8 - pol. 700 rpm [kW]	12 - pol. 465 rpm [kW]	IEC - PAM f_B ⇨ 71 - 110							DIN 42677' ye Göre IEC Adaptöre Bağlanacak Motor Boyutu IEC Motor Frame Sizes And Rated Powers According to DIN 42677							
PKD 2490 W mm 156 + IEC - PAM mm 156-157	1898.52	0.74	860	0.07	0.04	0.03	0.02	63*	71*											
	1504.07	0.93	860	0.08	0.06	0.04	0.03	63*	71*											
	1121.09	1.20	860	0.11	0.07	0.06	0.04	63*	71*											
	952.47	1.50	860	0.13	0.09	0.07	0.04	63*	71*											
	754.58	1.90	860	0.17	0.11	0.08	0.06	63*	71*											
	678.31	2.10	860	0.19	0.12	0.09	0.06	63	71*											
	562.44	2.50	860	0.22	0.15	0.11	0.07	63	71*											
	473.11	3.00	860	0.27	0.18	0.13	0.09	63	71*											
	339.72	4.10	860	0.37	0.24	0.19	0.12	63	71											
	297.67	4.70	860	*0.37*	*0.24*	*0.19*	*0.12*	63	71											
	228.98	6.10	650	*0.37*	*0.24*	*0.19*	*0.12*	63	71											
PKD 2390 W mm 152 + IEC - PAM mm 152-153	276.87	5.10	800	0.42	0.28	0.21	0.14	63	71											
	232.89	6.00	700	0.44	0.29	0.22	0.15	63	71											
	219.34	6.40	860	0.57	0.38	0.29	0.19		71	80*										
	184.51	7.60	860	0.68	0.45	0.34	0.23		71	80*										
	169.88	8.20	860	0.74	0.49	0.37	0.25		71	80*										
	137.63	10.20	860	0.92	0.61	0.46	0.30			80										
	115.77	12.10	860	1.09	0.72	0.54	0.36	63	71	80										
	98.92	**14.20**	860	1.27	0.85	0.64	0.42		71	80										
	85.23	16.40	860	1.48	0.98	0.74	0.49	63	71	80	90*									
	78.85	**17.80**	860	1.60	1.06	0.80	0.53	63	71	80										
	66.47	**21.10**	860	1.90	1.26	0.95	0.63	63	71	80	90	100*	112*							
	58.24	**24.00**	860	2.16	1.44	1.08	0.72	63	71	80	90	100*	112*							
	52.11	**26.90**	860	2.42	1.61	1.21	0.80	63	71	80	90	100*	112*							
	48.99	**28.60**	860	2.57	1.71	1.29	0.85	63	71	80	90	100*	112*							
	44.80	**31.20**	860	2.81	1.87	1.41	0.93	63	71	80	90	100*	112*							
	39.70	**35.30**	860	3.18	2.11	1.59	1.05	63	71	80	90	100*	112*							
	33.28	**42.10**	860	3.79	2.52	1.89	1.26				90	100	112*							
	31.43	**44.50**	820	3.82	2.54	1.91	1.27	63	71	80	90	100	112*							
	29.22	**47.90**	860	*4.00*	*2.64*	*2.00*	*1.32*	63	71	80	90	100	112*							
	26.14	**53.60**	860	*4.00*	*2.64*	*2.00*	*1.32*	63	71	80	90	100	112							
	24.58	**57.00**	860	*4.00*	*2.64*	*2.00*	*1.32*	63	71	80	90	100	112							
	22.48	**62.30**	780	*4.00*	*2.64*	*2.00*	*1.32*	63	71	80	90	100	112							
	19.92	**70.30**	760	*4.00*	*2.64*	*2.00*	*1.32*				90	100	112							
	17.52	**79.90**	720	*4.00*	*2.64*	*2.00*	*1.32*	63	71	80	90	100	112							
	16.29	**85.90**	620	*4.00*	*2.64*	*2.00*	*1.32*	63	71	80	90	100	112							
	14.58	**96.00**	580	*4.00*	*2.64*	*2.00*	*1.32*	63	71	80	90	100	112							
	12.53	**111.70**	540	*4.00*	*2.64*	*2.00*	*1.32*	63	71	80	90	100	112							
	11.11	**126.00**	520	*4.00*	*2.64*	*2.00*	*1.32*	63	71	80	90	100	112							
	8.79	**159.30**	480	*4.00*	*2.64*	*2.00*	*1.32*				90	100	112							

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

Tip Type	Tahvil Reduction i_{ges}	Çıkış Hızı Output speed 4-pol. 50 Hz 1400 rpm n_2 [min^{-1}]	M_{amax} f_B =1 4 - pol. [Nm]	Max. Giriş Gücü / Max. Input Power P_{1max} W $f_B \geq 1$ 4 - pol. 1400 rpm [kW]	6 - pol. 930 rpm [kW]	8 - pol. 700 rpm [kW]	12 - pol. 465 rpm [kW]	IEC - PAM f_B ⇨ 71 - 110							DIN 42677' ye Göre IEC Adaptöre Bağlanacak Motor Boyutu IEC Motor Frame Sizes And Rated Powers According to DIN 42677		
PKD 3490 W mm 164 + IEC - PAM mm 164-165	3637.83	0.38	1550	0.06	0.04	0.03	0.02	63*	71*							
	2429.08	0.58	1550	0.09	0.06	0.05	0.03	63*	71*							
	1825.06	0.77	1550	0.12	0.08	0.06	0.04	63*	71*							
	1363.01	1.00	1550	0.17	0.11	0.08	0.06	63*	71*							
	1151.03	1.20	1550	0.20	0.13	0.10	0.07	63	71*							
	873.20	1.60	1550	0.26	0.17	0.13	0.09	63	71*							
	691.75	2.00	1550	0.33	0.22	0.16	0.11	63	71*							
	538.92	2.60	1550	0.42	0.28	0.21	0.14	63	71							
	399.39	**3.50**	1550	0.57	0.38	0.28	0.19	63	71	80*	90*					
	353.00	**4.00**	1550	0.64	0.43	0.32	0.21	63	71	80*	90*					
	267.79	**5.20**	1550	0.85	0.56	0.42	0.28	63	71	80	90*					
	215.12	**6.50**	1550	1.06	0.70	0.53	0.35	63	71	80	90*					
	167.59	**8.40**	1550	*1.10*	*0.73*	*0.55*	*0.37*	63	71	80	90					
PKD 3390 W mm 160 + IEC - PAM mm 160-161	296.10	4.70	1550	0.77	0.51	0.38	0.25	71	80	90*						
	250.01	5.60	1550	0.91	0.60	0.45	0.30	71	80	90*						
	234.13	6.00	1550	0.97	0.64	0.49	0.32		80	90*						
	197.69	7.10	1550	1.15	0.76	0.57	0.38		80	90*						
	188.22	7.40	1550	1.21	0.80	0.60	0.40			90*	100*	112*				
	158.92	8.80	1550	1.43	0.95	0.71	0.47			90*	100*	112*				
	139.49	10.00	1550	1.63	1.08	0.81	0.54			90						
	117.78	11.90	1550	1.93	1.28	0.96	0.64			90						
	110.94	**12.60**	1550	2.05	1.36	1.02	0.68	71	80	90	100*	112*				
	93.67	**14.90**	1550	2.43	1.61	1.21	0.81	71	80	90	100*	112*				
	84.16	**16.60**	1550	2.70	1.79	1.35	0.90	71	80	90	100*	112*				
	75.92	**18.40**	1550	2.99	1.99	1.50	0.99	71	80	90	100*	112*				
	64.11	**21.80**	1550	3.54	2.35	1.77	1.18	71	80	90	100	112*				
	59.15	**23.70**	1550	3.84	2.55	1.92	1.28	71	80	90	100	112*	132*			
	49.94	**28.00**	1550	4.55	3.02	2.27	1.51	71	80	90	100	112	132*			
	47.67	**29.40**	1550	4.77	3.17	2.38	1.58			90	100	112	132*			
	40.37	**34.70**	1550	5.63	3.74	2.81	1.87			90	100	112	132*			
	38.09	**36.80**	1550	5.97	3.96	2.98	1.98	71	80	90	100	112				
	35.65	**39.30**	1550	6.37	4.23	3.19	2.12	71	80	90	100	112				
	29.67	**47.20**	1500	7.41	4.92	3.71	2.46	71	80	90	100	112	132*			
	25.06	**55.90**	1500	8.77	5.83	4.39	2.91	71	80	90	100	112	132*			
	23.92	**58.50**	1550	*9.20*	*6.07*	*4.60*	*3.04*			90	100	112	132			
	20.25	**69.10**	1500	*9.20*	*6.07*	*4.60*	*3.04*			90	100	112	132			
	17.10	**81.90**	1450	*9.20*	*6.07*	*4.60*	*3.04*			90	100	112	132			
	15.73	**89.00**	1400	*9.20*	*6.07*	*4.60*	*3.04*			90	100	112	132			
	13.54	**103.40**	1350	*9.20*	*6.07*	*4.60*	*3.04*			90	100	112	132			
	12.68	**110.40**	1000	*9.20*	*6.07*	*4.60*	*3.04*			90	100	112	132			
	10.74	**130.40**	900	*9.20*	*6.07*	*4.60*	*3.04*			90	100	112	132			
	8.50	**164.70**	880	*9.20*	*6.07*	*4.60*	*3.04*			90	100	112	132			

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

Tip Type	Tahvil Reduction i_{ges}	Çıkış Hızı Output speed 4-pol. 50 Hz 1400 rpm n_2 [min^{-1}]	M_{amax} f_B =1 4 - pol. [Nm]	Max. Giriş Gücü / Max. Input Power P_{1max} W $f_B \geq 1$ 4 - pol. 1400 rpm [kW]	6 - pol. 930 rpm [kW]	8 - pol. 700 rpm [kW]	12 - pol. 465 rpm [kW]	IEC - PAM f_B ⇨ 71 - 110							DIN 42677' ye Göre IEC Adaptöre Bağlanacak Motor Boyutu IEC Motor Frame Sizes And Rated Powers According to DIN 42677		
PKD 4490 **W** mm 172 + **IEC - PAM** mm 172-173	4243.27	0.33	2800	0.10	0.06	0.05	0.03	71*	80*								
	3361.66	0.42	2800	0.12	0.08	0.06	0.04	71*	80*	90*							
	3023.46	0.46	2800	0.14	0.09	0.07	0.05	71*	80*								
	2395.28	0.58	2800	0.17	0.11	0.09	0.06	71*	80*	90*							
	2128.80	0.66	2800	0.19	0.13	0.10	0.06	71*	80*								
	1516.84	0.92	2800	0.27	0.18	0.14	0.09	71*	80*								
	1113.75	1.30	2800	0.37	0.24	0.18	0.12	71	80*								
	882.35	1.60	2800	0.47	0.31	0.23	0.15	71	80*	90*							
	644.73	2.20	2800	0.64	0.42	0.32	0.21	71	80*	90*							
	567.85	2.50	2800	0.72	0.48	0.36	0.24	71	80*	90*							
	404.53	3.50	2800	1.01	0.67	0.51	0.34			90*	100*	112*					
	350.42	**4.00**	2800	1.17	0.78	0.59	0.39	71	80	90*	100*	112*					
	278.98	**5.00**	2800	1.47	0.98	0.74	0.49	71	80	90*	100*	112*					
	204.13	**6.90**	2800	2.01	1.34	1.01	0.67	71	80	90	100*	112*					
	172.07	**8.10**	2800	*2.20*	*1.45*	*1.10*	*0.73*	71	80	90	100*	112*					
PKD 4390 **W** mm 168 + **IEC - PAM** mm 168-169	329.57	4.20	2800	1.25	0.83	0.62	0.41	90*									
	273.80	5.10	2800	1.50	1.00	0.75	0.50	90									
	234.83	6.00	2800	1.75	1.16	0.87	0.58	90	100*	112*							
	195.09	7.20	2800	2.10	1.40	1.05	0.70	90	100*	112*							
	165.34	8.50	1500	1.33	0.88	0.66	0.44	90									
	159.93	8.80	2800	2.57	1.70	1.28	0.85		100*	112*	132*						
	132.86	10.50	2800	3.09	2.05	1.54	1.03		100	112*	132*						
	117.81	11.90	2400	2.99	1.98	1.49	0.99	90	100	112*							
	95.57	**14.60**	2800	4.29	2.85	2.15	1.43	90	100	112	132*						
	86.50	**16.20**	2800	4.75	3.15	2.37	1.58	90	100	112	132*						
	76.08	**18.40**	2800	5.40	3.58	2.70	1.79	90	100	112	132*						
	68.52	**20.40**	2800	5.99	3.98	3.00	1.99	90	100	112	132	160*					
	63.21	**22.10**	2800	6.49	4.31	3.25	2.16	90	100	112	132*						
	55.67	**25.10**	2800	7.37	4.90	3.69	2.45	90	100	112	132	160*					
	47.61	**29.40**	2800	8.62	5.73	4.31	2.86	90	100	112	132	160*					
	40.56	**34.50**	2800	10.12	6.72	5.06	3.36	90	100	112	132	160*					
	34.38	**40.70**	2800	11.94	7.93	5.97	3.97	90	100	112	132	160*					
	27.93	**50.10**	2800	14.70	9.76	7.35	4.88	90	100	112	132	160*					
	23.88	**58.60**	2700	*15.00*	*9.90*	*7.50*	*4.95*	90	100	112	132	160					
	20.35	**68.80**	2600	*15.00*	*9.90*	*7.50*	*4.95*	90	100	112	132	160					
	18.25	**76.70**	2450	*15.00*	*9.90*	*7.50*	*4.95*				132	160					
	15.69	**89.20**	2000	*15.00*	*9.90*	*7.50*	*4.95*	90	100	112	132	160					
	13.42	**104.30**	2000	*15.00*	*9.90*	*7.50*	*4.95*	90	100	112	132	160					
	11.43	**122.50**	1500	*15.00*	*9.90*	*7.50*	*4.95*	90	100	112	132	160					
	10.25	**136.60**	1500	*15.00*	*9.90*	*7.50*	*4.95*				132	160					
	9.42	**148.60**	1500	*15.00*	*9.90*	*7.50*	*4.95*				132	160					
	8.83	**158.60**	1400	*15.00*	*9.90*	*7.50*	*4.95*				132	160					

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

Tip Type	Tahvil Reduction i_{ges}	Çıkış Hızı Output speed 4-pol. 50 Hz 1400 rpm n_2 [min^{-1}]	M_{amax} f_B =1 4 - pol. [Nm]	Max. Giriş Gücü / Max. Input Power P_{1max} W $f_B \geq 1$ 4 - pol. 1400 rpm [kW]	6 - pol. 930 rpm [kW]	8 - pol. 700 rpm [kW]	12 - pol. 465 rpm [kW]	IEC - PAM f_B ⇨ 71 - 110			DIN 42677' ye Göre IEC Adaptöre Bağlanacak Motor Boyutu IEC Motor Frame Sizes And Rated Powers According to DIN 42677				
PKD 5490 **W** mm 180 + **IEC - PAM** mm 180-181	3736.07	0.37	4800	0.19	0.13	0.09	0.06	71*	80*	90*					
	2954.10	0.47	4800	0.24	0.16	0.12	0.08		80*	90*					
	2023.36	0.69	4800	0.35	0.23	0.17	0.12		80*	90*					
	1874.35	0.75	4800	0.38	0.25	0.19	0.12	71	80*	90*					
	1399.82	**1.00**	4800	0.50	0.33	0.25	0.17	71	80*	90*	100*	112*			
	1061.93	**1.30**	4800	0.66	0.44	0.33	0.22	71	80*	90*	100*	112*			
	931.06	1.50	4800	0.76	0.50	0.38	0.25	71	80	90*					
	703.71	2.00	4000	0.83	0.55	0.42	0.28	71	80	90*					
	580.56	2.40	4800	1.21	0.81	0.61	0.40	71	80	90*					
	459.05	3.00	4800	1.53	1.02	0.77	0.51		80	90					
	348.85	**4.00**	4800	2.02	1.34	1.01	0.67	71	80	90	100*	112*			
	264.64	**5.30**	4800	2.66	1.77	1.33	0.88	71	80	90	100*	112*			
	228.99	**6.10**	4800	3.07	2.04	1.54	1.02	71	80	90	100	112*			
	165.02	**8.50**	4800	*4.00*	*2.64*	*2.00*	*1.32*	71	80	90	100	112			
PKD 5390 **W** mm 176 + **IEC - PAM** mm 176-177	289.62	4.80	4800	2.43	1.64	1.21	0.82	90	100*	112*					
	247.36	5.70	4800	2.84	1.89	1.42	0.94	90	100*	112*					
	198.37	7.10	4800	3.55	2.36	1.77	1.18		100	112*	132*				
	169.43	8.30	4800	4.15	2.76	2.08	1.38		100	112	132*				
	145.30	9.60	3600	3.63	2.41	1.82	1.21	90	100	112*					
	120.01	**11.70**	4800	5.86	3.89	2.93	1.95	90	100	112	132				
	102.50	**13.70**	4800	6.87	4.56	3.43	2.28	90	100	112	132				
	88.12	**15.90**	4800	7.99	5.30	3.99	2.65	90	100	112	132*	160*			
	72.18	**19.40**	4800	9.75	6.48	4.87	3.24	90	100	112	132	160*			
	62.45	**22.40**	4800	11.27	7.48	5.63	3.74	90	100	112	132	160*			
	54.55	**25.70**	4800	12.90	8.57	6.45	4.28	90	100	112	132	160*	180*		
	45.00	**31.10**	4800	15.64	10.39	7.82	5.19		100	112	132	160	180*		
	39.74	**35.20**	4800	17.71	11.76	8.85	5.88	90	100	112	132	160	180*		
	36.21	**38.70**	4800	19.43	12.91	9.72	6.45	90	100	112	132	160			
	31.33	**44.70**	4800	*22.00*	*14.52*	*11.00*	*7.26*	90	100	112	132	160			
	27.37	**51.20**	4600	*22.00*	*14.52*	*11.00*	*7.26*	90	100	112	132	160	180		
	23.38	**59.90**	4300	*22.00*	*14.52*	*11.00*	*7.26*		100	112	132	160	180		
	22.58	**62.00**	4300	*22.00*	*14.52*	*11.00*	*7.26*		100	112	132	160	180		
	19.94	**70.20**	4300	*22.00*	*14.52*	*11.00*	*7.26*				132	160	180		
	17.95	**78.00**	4300	*22.00*	*14.52*	*11.00*	*7.26*	90	100	112	132	160	180		
	16.37	**85.50**	4300	*22.00*	*14.52*	*11.00*	*7.26*		100	112	132	160	180		
	13.50	**103.50**	4300	*22.00*	*14.52*	*11.00*	*7.26*		100	112	132	160	180		
	11.92	**117.40**	3900	*22.00*	*14.52*	*11.00*	*7.26*					160	180		
	10.74	**130.40**	2900	*22.00*	*14.52*	*11.00*	*7.26*					160	180		
	10.07	**139.00**	2800	*22.00*	*14.52*	*11.00*	*7.26*					160	180		
	9.46	**148.00**	2600	*22.00*	*14.52*	*11.00*	*7.26*					160	180		
	8.13	**172.20**	2600	*22.00*	*14.52*	*11.00*	*7.26*					160	180		

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

Tip Type	Tahvil Reduction i_{ges}	Çıkış Hızı Output speed 4-pol. 50 Hz 1400 rpm n_2 [min^{-1}]	M_{amax} f_B =1 4 - pol. [Nm]	Max. Giriş Gücü / Max. Input Power P_{1max} W $f_B \geq 1$ 4 - pol. 1400 rpm [kW]	6 - pol. 930 rpm [kW]	8 - pol. 700 rpm [kW]	12 - pol. 465 rpm [kW]	IEC - PAM f_B ⇨ 71 - 110							DIN 42677' ye Göre IEC Adaptöre Bağlanacak Motor Boyutu IEC Motor Frame Sizes And Rated Powers According to DIN 42677
PKD 6390/32 W mm 207 + IEC - PAM mm 206-207	4318.33	0.32	8200	0.28	0.18	0.14	0.09		80*	90*					
	3863.44	0.36	8200	0.31	0.21	0.16	0.10		80*	90*					
	3110.88	0.45	8200	0.39	0.26	0.19	0.13		80*	90*					
	2217.63	0.63	8200	0.54	0.36	0.27	0.18		80*	90*					
	1830.71	**0.76**	8200	0.66	0.44	0.33	0.22	71	80*	90*	100*	112*			
	1388.82	**1.00**	8200	0.87	0.57	0.43	0.29	71	80	90*	100*	112*			
	1118.29	**1.10**	8200	0.92	0.71	0.46	0.36	71	80	90*	100*	112*			
	932.46	**1.50**	8200	1.29	0.86	0.64	0.43	71	80	90*	100*	112*			
	733.69	**1.90**	8200	1.64	1.09	0.82	0.54	71	80	90	100*	112*			
	571.60	**2.40**	8200	2.10	1.40	1.05	0.70	71	80	90	100*	112*	132*		
	451.55	**3.10**	8200	2.66	1.77	1.33	0.88			90	100*	112*	132*		
	368.93	**3.80**	8200	3.26	2.16	1.63	1.08	71	80	90	100	112*	132*		
	297.35	**4.70**	8200	*4.00*	*2.64*	*2.00*	*1.32*			90	100	112	132*		
PKD 6390/42 W 207 + IEC - PAM 206-207	**258.36**	**5.40**	8200	4.65	3.09	2.33	1.55	90	100	112	132*	160*			
	188.23	**7.40**	7200	5.61	3.72	2.80	1.86	90	100	112	132*	160*			
	150.60	**9.30**	6200	6.04	4.01	3.02	2.00	90	100	112	132*	160*			
	128.79	**10.90**	6000	6.83	4.54	3.41	2.27	90	100	112	132*	160*			
PKD 6390 W mm 184 + IEC - PAM mm 184-185	235.45	5.90	8200	5.11	3.39	2.55	1.70	100	112	132*					
	198.23	7.10	8200	6.06	4.03	3.03	2.01	100	112	132*					
	179.11	7.80	8200	6.71	4.46	3.36	2.23			132*	160*	180*			
	150.79	9.30	8200	7.97	5.30	3.99	2.65			132*	160*	180*			
	129.36	10.80	6600	7.48	4.97	3.74	2.48	100	112	132					
	105.58	**13.30**	8200	11.39	7.56	5.69	3.78	100	112	132					
	87.70	**16.00**	8200	13.71	9.11	6.85	4.55	100	112	132	160*	180*			
	76.33	**18.30**	8200	15.75	10.46	7.87	5.23	100	112	132	160	180*			
	67.20	**20.80**	8200	17.89	11.88	8.94	5.94	100	112	132	160	180*	200*	225*	
	56.03	**25.00**	8200	21.45	14.25	10.73	7.13	100	112	132	160	180*	200*	225*	
	48.23	**29.00**	7900	24.01	15.95	12.01	7.98	100	112	132	160	180	200*	225*	
	42.97	**32.60**	7400	25.25	16.77	12.62	8.39					180	200*	225*	
	39.35	**35.60**	7400	27.57	18.31	13.78	9.16			132	160	180	200*	225*	
	33.71	**41.50**	8200	35.66	23.69	17.83	11.84	100	112	132	160	180	200	225*	
	28.11	**49.80**	8200	42.76	28.41	21.38	14.20	100	112	132	160	180	200	225*	
	24.19	**57.90**	8200	*45.00*	*29.70*	*22.50*	*14.85*	100	112	132	160	180	200	225	
	21.56	**64.90**	8200	*45.00*	*29.70*	*22.50*	*14.85*					180	200	225	
	19.74	**70.90**	8200	*45.00*	*29.70*	*22.50*	*14.85*			132	160	180	200	225	
	17.62	**79.50**	7500	*45.00*	*29.70*	*22.50*	*14.85*			132	160	180	200	225	
	15.76	**88.80**	7200	*45.00*	*29.70*	*22.50*	*14.85*					180	200	225	
	14.83	**94.40**	7200	*45.00*	*29.70*	*22.50*	*14.85*			132	160	180	200	225	
	13.29	**105.30**	5000	*45.00*	*29.70*	*22.50*	*14.85*	100	112	132	160	180	200	225	
	11.84	**118.20**	4800	*45.00*	*29.70*	*22.50*	*14.85*					180	200	225	
	11.42	**122.60**	4800	*45.00*	*29.70*	*22.50*	*14.85*			132	160	180	200	225	
	10.85	**129.00**	4800	*45.00*	*29.70*	*22.50*	*14.85*			132	160	180	200	225	
	9.68	**144.60**	4500	*45.00*	*29.70*	*22.50*	*14.85*			132	160	180	200	225	
	8.66	**161.70**	4500	*45.00*	*29.70*	*22.50*	*14.85*					180	200	225	

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

Tip / Type	Tahvil Reduction i_{ges}	Çıkış Hızı Output speed 4-pol. 50 Hz 1400 rpm n_2 [min^{-1}]	M_{amax} f_B =1 4 - pol. [Nm]	Max. Giriş Gücü / Max. Input Power P_{1max} W $f_B \geq 1$ 4 - pol. 1400 rpm [kW]	6 - pol. 930 rpm [kW]	8 - pol. 700 rpm [kW]	12 - pol. 465 rpm [kW]	IEC - PAM f_B ⇨ 71	80	90	100	112	132	160	180	200	225
PKD 7390/32 W mm 207 + IEC - PAM mm 206-207	4503.40	**0.31**	8500	0.28	0.18	0.14	0.09		80*	90*							
	4029.01	**0.35**	8500	0.31	0.21	0.15	0.10		80*	90*							
	3244.21	**0.43**	8500	0.38	0.26	0.19	0.13		80*	90*							
	2312.67	**0.61**	8500	0.54	0.36	0.27	0.18		80*	90*							
	1909.17	**0.73**	8500	0.65	0.43	0.33	0.22	71	80*	90*	100*	112*					
	1448.34	**0.97**	8500	0.86	0.57	0.43	0.29	71	80	90*	100*	112*					
	1166.22	**1.20**	8500	1.07	0.71	0.53	0.35	71	80	90*	100*	112*					
	972.42	**1.40**	8500	1.28	0.85	0.64	0.43	71	80	90*	100*	112*					
	765.14	**1.80**	8500	1.63	1.08	0.81	0.54	71	80	90	100*	112*	132*				
	596.10	**2.30**	8500	2.09	1.39	1.05	0.69	71	80	90	100*	112*	132*				
	470.91	**3.00**	8500	2.65	1.76	1.32	0.88			90	100*	112*	132*				
	384.74	**3.60**	8500	3.24	2.15	1.62	1.08	71	80	90	100	112*	132*				
	310.09	**4.50**	8500	*4.00*	*2.64*	*2.00*	*1.32*			90	100	112	132*				
PKD 7390/42 W 207 + IEC - PAM 206-207	**269.43**	**5.20**	8500	4.62	3.07	2.31	1.54	90	100	112	132*	160*					
	196.30	**7.10**	7400	5.53	3.67	2.76	1.84	90	100	112	132*	160*					
	157.05	**8.90**	6400	5.97	3.97	2.99	1.98	90	100	112	132*	160*					
	134.31	**10.40**	6200	6.77	4.49	3.38	2.25	90	100	112	132*	160*					
PKD 7390 W mm 188 + IEC - PAM mm 188-189	245.55	5.70	8500	5.07	3.37	2.54	1.69	100	112	132*							
	206.98	6.80	8500	6.02	4.00	3.01	2.00	100	112	132*							
	186.78	7.50	8500	6.67	4.43	3.34	2.22			132*	160*	180*					
	157.44	8.90	8500	7.91	5.26	3.96	2.63			132*	160*	180*					
	136.65	10.20	6700	7.19	4.77	3.59	2.39	100	112	132*							
	110.10	**12.70**	8500	11.32	7.52	5.66	3.76	100	112	132	160*						
	91.45	**15.30**	8500	13.63	9.05	6.81	4.53	100	112	132	160*	180*					
	79.61	**17.60**	8500	15.65	10.40	7.83	5.20	100	112	132	160	180*					
	70.08	**20.00**	8500	17.78	11.81	8.89	5.91	100	112	132	160	180*	200*	225*			
	58.44	**24.00**	8500	21.32	14.16	10.66	7.08	100	112	132	160	180*	200*	225*			
	50.29	**27.80**	8200	23.90	15.88	11.95	7.94	100	112	132	160	180	200*	225*			
	44.81	**31.20**	7700	25.19	16.73	12.60	8.37					180	200*	225*			
	41.04	**34.10**	7700	27.50	18.27	13.75	9.14			132	160	180	200*	225*			
	35.16	**39.80**	8500	35.44	23.54	17.72	11.77	100	112	132	160	180	200	225*			
	29.32	**47.70**	8500	42.50	28.23	21.25	14.12	100	112	132	160	180	200	225*			
	25.23	**55.50**	8500	*45.00*	*29.70*	*22.50*	*14.85*	100	112	132	160	180	200	225			
	22.48	**62.30**	8500	*45.00*	*29.70*	*22.50*	*14.85*					180	200	225			
	20.59	**68.00**	8500	*45.00*	*29.70*	*22.50*	*14.85*			132	160	180	200	225			
	18.37	**76.20**	7800	*45.00*	*29.70*	*22.50*	*14.85*			132	160	180	200	225			
	16.44	**85.20**	7500	*45.00*	*29.70*	*22.50*	*14.85*					180	200	225			
	15.49	**90.40**	7500	*45.00*	*29.70*	*22.50*	*14.85*			132	160	180	200	225			
	14.04	**99.70**	5200	*45.00*	*29.70*	*22.50*	*14.85*	100	112	132	160	180	200	225			
	12.51	**111.90**	5000	*45.00*	*29.70*	*22.50*	*14.85*					180	200	225			
	12.06	**116.10**	5000	*45.00*	*29.70*	*22.50*	*14.85*			132	160	180	200	225			
	11.46	**122.20**	5000	*45.00*	*29.70*	*22.50*	*14.85*			132	160	180	200	225			
	10.22	**137.00**	4700	*45.00*	*29.70*	*22.50*	*14.85*			132	160	180	200	225			
	9.15	**153.00**	4700	*45.00*	*29.70*	*22.50*	*14.85*					180	200	225			

DIN 42677' ye Göre IEC Adaptöre Bağlanacak Motor Boyutu
IEC Motor Frame Sizes And Rated Powers According to DIN 42677

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

Tip Type	Tahvil Reduction i_{ges}	Çıkış Hızı Output speed 4-pol. 50 Hz 1400 rpm n_2 [min^{-1}]	M_{amax} f_B =1 4 - pol. [Nm]	Max. Giriş Gücü / Max. Input Power P_{1max} W $f_B \geq 1$ 4 - pol. 1400 rpm [kW]	6 - pol. 930 rpm [kW]	8 - pol. 700 rpm [kW]	12 - pol. 465 rpm [kW]	IEC - PAM f_B ⇨ 71 - 110								DIN 42677' ye Göre IEC Adaptöre Bağlanacak Motor Boyutu IEC Motor Frame Sizes And Rated Powers According to DIN 42677
PKD 8390/42 W mm 209 + IEC - PAM mm 208-209	4674.44	0.30	13000	0.41	0.27	0.20	0.14	90*	100*	112*						
	3348.70	0.42	13000	0.57	0.38	0.28	0.19	90*	100*	112*						
	2688.01	0.52	13000	0.71	0.47	0.35	0.24	90*	100*	112*						
	2046.84	**0.68**	13000	0.93	0.62	0.47	0.31	90*	100*	112*						
	1812.03	**0.77**	13000	1.05	0.70	0.53	0.35	90*	100*	112*	132*	160*				
	1467.49	**0.95**	13000	1.30	0.86	0.65	0.43	90*	100*	112*	132*	160*				
	1017.96	**1.40**	13000	1.87	1.24	0.94	0.62	90	100*	112*	132*	160*				
	845.40	**1.70**	13000	2.25	1.50	1.13	0.75	90	100*	112*	132*	160*				
	705.03	**2.00**	13000	2.70	1.80	1.35	0.90	90	100*	112*	132*	160*				
	602.92	**2.30**	13000	3.16	2.10	1.58	1.05	90	100	112*	132*	160*				
	444.35	**3.20**	13000	4.29	2.85	2.14	1.42	90	100	112	132*	160*				
	379.99	**3.70**	13000	5.01	3.33	2.51	1.67	90	100	112	132*	160*				
	286.02	**4.90**	13000	6.66	4.43	3.33	2.21	90	100	112	132*	160*				
PKD 8390/52 W 209 + IEC - PAM 208-209	**246.45**	**5.70**	13000	7.73	5.14	3.87	2.57	100	112	132*	160*	180*				
	182.32	**7.70**	13000	10.45	6.94	5.23	3.47	100	112	132	160*	180*				
	146.35	**9.60**	13000	13.02	8.65	6.51	4.33	100	112	132	160*	180*				
	123.64	**11.30**	12000	14.23	9.45	7.11	4.73	100	112	132	160*	180*				
PKD 8390 W mm 192 + IEC - PAM mm 192-193	296.68	4.70	12600	6.23	4.14	3.11	2.07	132*	160*	180*						
	244.25	5.70	13000	7.80	5.18	3.90	2.59	132*	160*	180*						
	148.84	9.40	13000	12.80	8.51	6.40	4.25	132	160*	180*						
	122.54	11.40	13000	15.55	10.33	7.78	5.17	132	160*	180*						
	116.55	12.00	13000	16.35	10.86	8.18	5.43	132	160	180*	200*	225*				
	95.96	14.60	13000	19.86	13.19	9.93	6.60	132	160	180*	200*	225*				
	82.95	16.90	13000	22.97	15.26	11.49	7.63	132	160	180	200*	225*	250*			
	71.56	19.60	13000	26.63	17.69	13.32	8.85	132	160	180	200*	225*	250*	280*		
	62.43	22.40	13000	30.53	20.28	15.26	10.14	132	160	180	200*	225*	250*	280*	315*	
	53.39	26.20	13000	35.70	23.71	17.80	11.86	132	160	180	200	225*	250*	280*	315*	
	44.73	31.30	13000	42.61	28.30	21.30	14.15	132	160	180	200	225*	250*	280*	315*	
	41.61	33.60	13000	45.80	30.42	22.90	15.21	132	160	180	200	225	250*			
	35.90	39.00	13000	53.09	35.26	26.54	17.63	132	160	180	200	225	250*	280*		
	31.32	44.70	13000	60.85	40.42	30.42	20.21	132	160	180	200	225	250	280*	315*	
	26.79	52.30	13000	71.14	47.26	35.57	23.63	132	160	180	200	225	250	280*	315*	
	22.44	62.40	13000	84.93	56.42	42.46	28.21	132	160	180	200	225	250	280*	315*	
	20.18	69.40	13000	*90.00*	*59.40*	*45.00*	*29.70*					225	250	280		
	17.33	80.80	13000	*90.00*	*59.40*	*45.00*	*29.70*			180	200	225	250	280	315*	
	14.64	95.60	13000	*90.00*	*59.40*	*45.00*	*29.70*	132	160	180	200	225	250	280	315*	
	12.35	113.40	8400	*90.00*	*59.40*	*45.00*	*29.70*	132	160	180	200	225	250	280	315*	
	8.05	173.90	7200	*90.00*	*59.40*	*45.00*	*29.70*	132	160	180	200	225	250	280	315*	

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

Tip Type	Tahvil Reduction i_{ges}	Çıkış Hızı Output speed 4-pol. 50 Hz 1400 rpm n_2 [min^{-1}]	M_{amax} f_B =1 4 - pol. [Nm]	Max. Giriş Gücü / Max. Input Power P_{1max} W $f_B \geq 1$ 4 - pol. 1400 rpm [kW]	6 - pol. 930 rpm [kW]	8 - pol. 700 rpm [kW]	12 - pol. 465 rpm [kW]	IEC - PAM f_B ⇨ 71 - 110							DIN 42677' ye Göre IEC Adaptöre Bağlanacak Motor Boyutu IEC Motor Frame Sizes And Rated Powers According to DIN 42677
PKD G 8390/52 W mm 209 + IEC - PAM mm 208-209	4830.19	0.29	20000	0.61	0.40	0.30	0.20	90*	100*	112*					
	3603.72	0.39	20000	0.81	0.54	0.41	0.27	90*	100*	112*					
	3018.87	0.46	20000	0.97	0.65	0.49	0.32	90	100*	112*					
	2114.13	0.66	20000	1.39	0.92	0.69	0.46	90	100*	112*					
	1786.51	**0.78**	20000	1.64	1.09	0.82	0.55	90	100*	112*	132*	160*			
	1463.24	**0.96**	20000	2.00	1.33	1.00	0.67	90	100*	112*	132*	160*			
	1203.73	**1.20**	20000	2.44	1.62	1.22	0.81	90	100*	112*	132*	160*			
	909.80	**1.50**	20000	3.22	2.14	1.61	1.07	90	100	112*	132*	160*	180*		
	714.84	**2.00**	20000	4.10	2.72	2.05	1.36	90	100	112	132*	160*	180*		
	623.65	**2.20**	20000	4.70	3.12	2.35	1.56	90	100	112	132*	160*	180*		
	434.96	**3.20**	20000	6.74	4.48	3.37	2.24		100	112	132*	160*	180*		
	379.47	**3.70**	20000	7.73	5.13	3.86	2.57		100	112	132	160*	180*		
	271.85	**5.10**	20000	10.79	7.16	5.39	3.58	90	100	112	132	160*	180*		
	236.35	**5.90**	20000	12.41	8.24	6.20	4.12		100	112	132	160*	180*		
	172.19	**8.10**	20000	17.03	11.31	8.51	5.66		100	112	132	160	180*		
	144.85	**9.70**	18000	18.22	12.10	9.11	6.05		100	112	132	160	180*		
PKD G 8390 W mm 197 + IEC - PAM mm 196-197	230.68	6.10	20000	12.71	8.44	6.35	4.22	132	160*	180*					
	194.04	7.20	20000	15.11	10.04	7.55	5.02	132	160	180*					
	151.87	9.20	20000	19.31	12.82	9.65	6.41		160	180*	200*				
	127.75	11.00	20000	22.95	15.25	11.48	7.62		160	180	200*				
	116.62	**12.00**	20000	25.14	16.70	12.57	8.35	132	160	180					
	90.63	**15.40**	20000	32.35	21.49	16.18	10.75	132	160	180	200	225*			
	78.34	**17.90**	20000	37.43	24.86	18.71	12.43	132	160	180	200	225*	250*		
	67.58	**20.70**	20000	43.38	28.82	21.69	14.41	132	160	180	200	225*	250*	280*	
	58.96	**23.70**	20000	49.73	33.03	24.86	16.52	132	160	180	200	225	250*	280*	315*
	50.42	**27.80**	20000	58.15	38.63	29.08	19.31	132	160	180	200	225	250	280*	315*
	42.24	**33.10**	20000	69.41	46.11	34.71	23.05	132	160	180	200	225	250	280*	315*
	35.53	**39.40**	18000	74.27	49.34	37.13	24.67	132	160	180	200	225	250	280*	315*
	29.58	**47.30**	20000	99.12	65.84	49.56	32.92	132	160	180	200	225	250	280	315*
	25.30	**55.30**	20000	115.89	76.98	57.94	38.49	132	160	180	200	225	250	280	315*
	21.19	**66.10**	20000	138.36	91.91	69.18	45.96	132	160	180	200	225	250	280	315*
	17.83	**78.50**	19000	156.22	103.77	78.11	51.89	132	160	180	200	225	250	280	315*
	16.37	**85.50**	19000	*160.00*	*105.60*	*80.00*	*52.80*					225	250	280	315*
	14.75	**94.90**	15000	149.08	99.03	74.54	49.52	132	160	180	200	225	250	280	315*
	12.36	**113.30**	14000	*160.00*	*105.60*	*80.00*	*52.80*	132	160	180	200	225	250	280	315*
	11.63	**120.40**	17000	*160.00*	*105.60*	*80.00*	*52.80*	132	160	180	200	225	250	280	315*
	9.54	**146.80**	13000	*160.00*	*105.60*	*80.00*	*52.80*			180	200	225	250	280	315*
	8.06	**173.70**	12000	*160.00*	*105.60*	*80.00*	*52.80*	132	160	180	200	225	250	280	315*

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

Tip Type	Tahvil Reduction i_{ges}	Çıkış Hızı Output speed 4-pol. 50 Hz 1400 rpm n_2 [min^{-1}]	M_{amax} f_B =1 4 - pol. [Nm]	Max. Giriş Gücü / Max. Input Power P_{1max} W $f_B \geq 1$ 4 - pol. 1400 rpm [kW]	6 - pol. 930 rpm [kW]	8 - pol. 700 rpm [kW]	12 - pol. 465 rpm [kW]	IEC - PAM f_B ⇨ 71 - 110 DIN 42677' ye Göre IEC Adaptöre Bağlanacak Motor Boyutu IEC Motor Frame Sizes And Rated Powers According to DIN 42677							
PKD 9390/52 W mm 209 + IEC - PAM mm 208-209	4933.39	0.28	32000	0.95	0.63	0.48	0.32	90*	100*	112*					
	3555.41	0.39	26000	1.07	0.71	0.54	0.36	90*	100*	112*					
	2913.46	0.48	26000	1.31	0.87	0.65	0.43	90	100*	112*					
	2114.30	**0.66**	32000	2.22	1.47	1.11	0.74	90	100*	112*	132*	160*			
	1795.13	**0.78**	32000	2.61	1.74	1.31	0.87	90	100*	112*	132*	160*			
	1424.59	**0.98**	32000	3.29	2.19	1.65	1.09	90	100	112*	132*	160*			
	1119.32	**1.30**	32000	4.19	2.78	2.10	1.39	90	100	112	132*	160*			
	846.00	**1.70**	32000	5.55	3.68	2.77	1.84	90	100	112	132*	160*	180*		
	706.54	**2.00**	32000	6.64	4.41	3.32	2.21	90	100	112	132*	160*	180*		
	609.75	**2.30**	32000	7.69	5.11	3.85	2.56	90	100	112	132*	160*	180*		
	444.25	**3.20**	32000	10.56	7.01	5.28	3.51	90	100	112	132	160*			
	386.23	**3.60**	32000	12.15	8.07	6.07	4.03	90	100	112	132	160*	180*		
	281.40	**5.00**	32000	16.67	11.07	8.34	5.54		100	112	132	160	180*		
	223.16	**6.30**	32000	21.02	13.96	10.51	6.98					160	180*		
	191.78	**7.30**	32000	*22.00*	*14.52*	*11.00*	*7.26*					160	180		
PKD 9390 W mm 200 + IEC - PAM mm 200-201	297.79	4.70	32000	15.75	10.46	7.88	5.23	132	160	180*					
	253.26	5.50	32000	18.52	12.30	9.26	6.15	132	160	180*					
	197.62	7.10	32000	23.74	15.77	11.87	7.88		160	180	200*				
	153.11	**9.10**	32000	30.64	20.35	15.32	10.18	132	160	180					
	120.24	**11.60**	32000	39.01	25.92	19.51	12.96	132	160	180	200	225*			
	102.37	**13.70**	32000	45.82	30.44	22.91	15.22	132	160	180	200	225	250*		
	91.73	**15.30**	32000	51.14	33.97	25.57	16.99	132	160	180	200	225	250*	280*	
	79.99	**17.50**	32000	58.65	38.96	29.32	19.48	132	160	180	200	225	250	280*	315*
	69.03	**20.30**	32000	67.96	45.14	33.98	22.57	132	160	180	200	225	250	280*	315*
	58.71	**23.80**	32000	79.90	53.08	39.95	26.54	132	160	180	200	225	250	280	315*
	49.75	**28.10**	32000	94.29	62.64	47.15	31.32	132	160	180	200	225	250	280	315*
	40.77	**34.30**	32000	115.06	76.43	57.53	38.22	132	160	180	200	225	250	280	315*
	39.14	**35.80**	32000	119.85	79.62	59.93	39.81	132	160	180	200	225	250	280	
	34.13	**41.00**	32000	137.45	91.30	68.72	45.65	132	160	180	200	225	250	280	315*
	29.35	**47.70**	32000	*160.00*	*105.60*	*80.00*	*52.80*	132	160	180	200	225	250	280	315*
	24.96	**56.10**	32000	*160.00*	*105.60*	*80.00*	*52.80*	132	160	180	200	225	250	280	315*
	20.41	**68.60**	32000	*160.00*	*105.60*	*80.00*	*52.80*	132	160	180	200	225	250	280	315*
	17.29	**81.00**	20500	*160.00*	*105.60*	*80.00*	*52.80*	132	160	180	200	225	250	280	315*
	14.17	**98.80**	19400	*160.00*	*105.60*	*80.00*	*52.80*	132	160	180	200	225	250	280	315*
	11.56	**121.10**	18400	*160.00*	*105.60*	*80.00*	*52.80*	132	160	180	200	225	250	280	315*
	10.71	**130.70**	18000	*160.00*	*105.60*	*80.00*	*52.80*						250	280	315*

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

Tip Type	Tahvil Reduction i_{ges}	Çıkış Hızı Output speed 4-pol. 50 Hz 1400 rpm n_2 [min^{-1}]	M_{amax} f_B =1 4 - pol. [Nm]	Max. Giriş Gücü / Max. Input Power P_{1max} W $f_B \geq 1$ 4 - pol. 1400 rpm [kW]	6 - pol. 930 rpm [kW]	8 - pol. 700 rpm [kW]	12 - pol. 465 rpm [kW]	IEC - PAM f_B ⇨ 71 - 110 DIN 42677' ye Göre IEC Adaptöre Bağlanacak Motor Boyutu IEC Motor Frame Sizes And Rated Powers According to DIN 42677							
PKD G 9390/63 W mm 211 + IEC - PAM mm 210-211	13432.68	0.10	50000	0.56	0.37	0.28	0.19	90*	100*	112*	132	160			
	11954.86	0.12	50000	0.67	0.44	0.33	0.22	90*	100*	112*	132*	160*			
	9713.32	0.14	50000	0.77	0.51	0.39	0.26	90*	100*	112*	132*	160*	180*		
	8306.57	0.17	50000	0.89	0.59	0.45	0.30	90*	100*	112*	132*	160*	180*		
	7842.34	0.18	50000	0.94	0.62	0.47	0.31	90*	100*	112*	132*	160*	180*		
	6706.55	0.21	50000	1.10	0.73	0.55	0.37	90*	100*	112*	132*	160*	180*		
	5575.65	0.25	50000	1.31	0.86	0.65	0.43	90*	100*	112*	132*	160*	180*		
	4441.42	0.32	50000	1.68	1.11	0.84	0.56	90	100*	112*	132*	160*	180*		
	3692.48	0.38	50000	1.99	1.31	0.99	0.66	90	100*	112*	132*	160*	180*		
	3210.12	0.44	50000	2.30	1.52	1.15	0.76	90	100	112*	132*	160*	180*		
	2679.06	0.52	50000	2.72	1.80	1.36	0.90	90	100	112*	132*	160*	180*		
	2316.27	0.60	50000	3.14	2.07	1.57	1.04	90	100	112*	132*	160*	180*		
	2052.10	0.68	50000	3.56	2.35	1.78	1.18	90	100	112*	132*	160*	180*		
	1774.21	0.79	50000	4.14	2.73	2.07	1.37	90	100	112	132*	160*	180*		
PKD G 9390/62 W mm 211 + IEC - PAM mm 210-211	1623.67	0.86	50000	4.50	2.97	2.25	1.49		100	112	132*	160*	180*	200*	
	1353.86	1.0	50000	5.24	3.46	2.62	1.73		100	112	132*	160*	180*	200*	225*
	1165.22	1.2	50000	6.28	4.15	3.14	2.08		100	112	132*	160*	180*	200*	225*
	979.31	1.4	50000	7.33	4.84	3.66	2.42		100	112	132*	160*	180*	200*	225*
	816.57	0.7	50000	8.90	5.87	4.45	2.94		100	112	132*	160*	180*	200*	225*
	702.80	2.0	50000	10.47	6.91	5.24	3.46		100	112	132	160*	180*	200*	225*
	607.63	2.3	50000	12.04	7.95	6.02	3.98		100	112	132	160*	180*	200*	225*
	538.33	2.6	50000	13.61	8.98	6.81	4.49		100	112	132	160*	180*	200*	225*
	474.22	3.0	50000	15.71	10.37	7.85	5.19		100	112	132	160	180*	200*	225*
	431.00	3.2	50000	16.75	11.06	8.38	5.53		100	112	132	160	180*	200*	225*
	370.95	3.8	50000	19.90	13.13	9.95	6.57		100	112	132	160	180	200*	225*
	320.72	4.4	50000	23.04	15.20	11.52	7.60		100	112	132	160	180	200*	225*
	297.17	4.7	50000	24.61	16.24	12.30	8.12				132	160	180	200*	225*
	270.09	5.2	50000	27.23	17.97	13.61	8.99				132	160	180	200*	225*
	233.51	6.0	50000	31.41	20.73	15.71	10.37				132	160	180	200	225*
	208.95	6.7	50000	35.08	23.15	17.54	11.58						180	200	225*

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

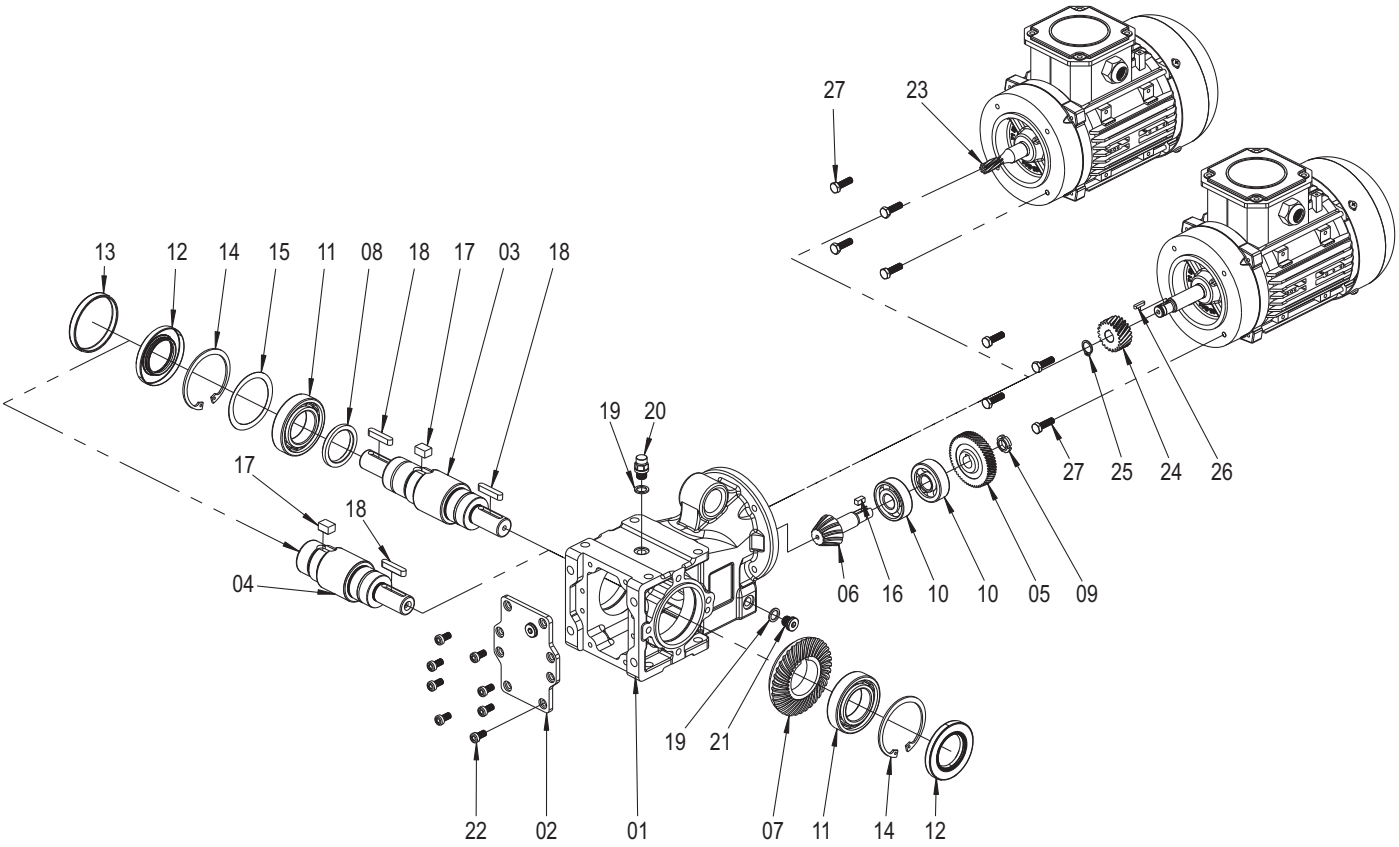
Tip Type	Tahvil Reduction i_{ges}	Çıkış Hızı Output speed 4-pol. 50 Hz 1400 rpm n_2 [min^{-1}]	M_{amax} f_B =1 4 - pol. [Nm]	Max. Giriş Gücü / Max. Input Power P_{1max} W $f_B \geq 1$ 4 - pol. 1400 rpm [kW]	6 - pol. 930 rpm [kW]	8 - pol. 700 rpm [kW]	12 - pol. 465 rpm [kW]	IEC - PAM f_B ⇨ 71 - 110				DIN 42677' ye Göre IEC Adaptöre Bağlanacak Motor Boyutu IEC Motor Frame Sizes And Rated Powers According to DIN 42677			
PKD G 9390 W mm 204 + **IEC - PAM** mm 204-205	200.57	7.0	50000	36.65	24.19	18.32	12.10	132	160	180	200	225*			
	173.41	8.1	50000	42.41	27.99	21.20	14.00	132	160	180	200	225*			
	154.29	9.1	50000	47.64	31.45	23.82	15.73	132	160	180	200	225	250*	280*	
	133.53	10.0	50000	52.36	34.55	26.18	17.28	132	160	180	200	225	250*	280*	
	118.18	12.0	50000	62.83	41.47	31.41	20.74	132	160	180	200	225	250	280*	315*
	102.18	14.0	50000	73.30	48.38	36.65	24.19	132	160	180	200	225	250	280*	315*
	89.60	16.0	50000	83.77	55.29	41.88	27.65			180	200	225	250	280*	315*
	81.43	17.0	50000	89.01	58.74	44.50	29.37			180	200	225	250	280*	315*
	70.41	20.0	50000	104.71	69.11	52.36	34.56			180	200	225	250	280	315*
	65.07	22.0	50000	115.18	76.02	57.59	38.01					225	250	280	315*
	56.26	25.0	50000	130.89	86.39	65.45	43.20					225	250	280	315*
	47.79	29.0	50000	151.83	100.21	75.92	50.11	132	160	180	200	225	250	280	315*
	41.32	34.0	50000	178.01	117.49	89.01	58.75	132	160	180	200	225	250	280	315*
	36.24	39.0	50000	200.00	132.00	100.00	66.00			180	200	225	250	280	315
	32.93	43.0	50000	200.00	132.00	100.00	66.00			180	200	225	250	280	315
	28.47	49.0	50000	200.00	132.00	100.00	66.00			180	200	225	250	280	315
	26.31	53.0	50000	200.00	132.00	100.00	66.00					225	250	280	315
	22.75	62.0	50000	200.00	132.00	100.00	66.00					225	250	280	315
	19.41	72.0	50000	200.00	132.00	100.00	66.00								315
	16.78	83.0	50000	200.00	132.00	100.00	66.00								315

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

TR GENEL PARÇA LİSTESİ

EN GENERAL PART LIST

PKD A 0290 TMA-ÇMA



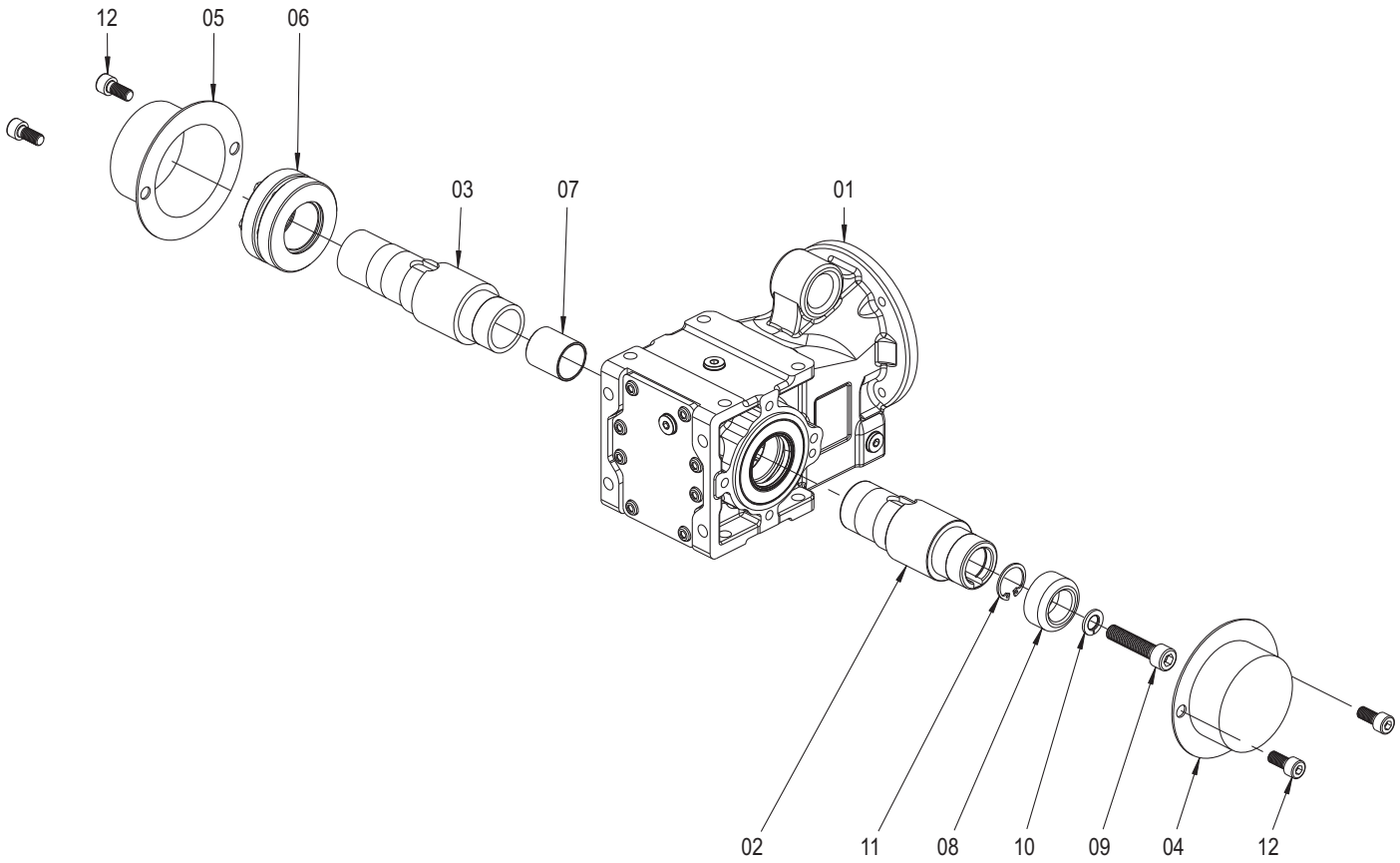
01	**PKD DA-DG Gövde**
02	**Arka Kapak**
03	**Çift Çıkış Mili**
04	**Tek Çıkış Mili**
05	**Z2 Dişlisi**
06	**Z3 Dişlisi**
07	**Z4 Dişlisi**
08	**Burç**
09	**Yarıklı Somun**
10	**Rulman**
11	**Rulman**
12	**Yağ Keçesi**
13	**Yağ Kapağı**
14	**Segman**
15	**Layner**
16	**Kama**
17	**Kama**
18	**Kama**
19	**Tapa Rondelası**
20	**Havalandırma Tapası**
21	**Yağ Tapası**
22	**Civata**
23	**Yekpare Z1 Dişli**
24	**Çakma Z1 Dişli**
25	**Segman**
26	**Kama**
27	**Civata**

01	PKD DA-DG Gear Case
02	Gear Case Cover
03	Solid shaft on both side
04	Solid shaft
05	Z2 Gear
06	Z3 Gear
07	Z4 Gear
08	Washer
09	Slotted round nut
10	Bearing
11	Bearing
12	Oil Seal
13	Oil Cap
14	Circlip
15	Shim
16	Key
17	Key
18	Key
19	Washer
20	Vent Plug
21	Oil Plug
22	Bolt
23	Z1 Pinion, gearcut,
24	Z1 Pinion, plain
25	Circlip
26	Key
27	Bolt

TR GENEL PARÇA LİSTESİ

EN GENERAL PART LIST

PKD A 0290 DA-DG KS-KK+Ç-K

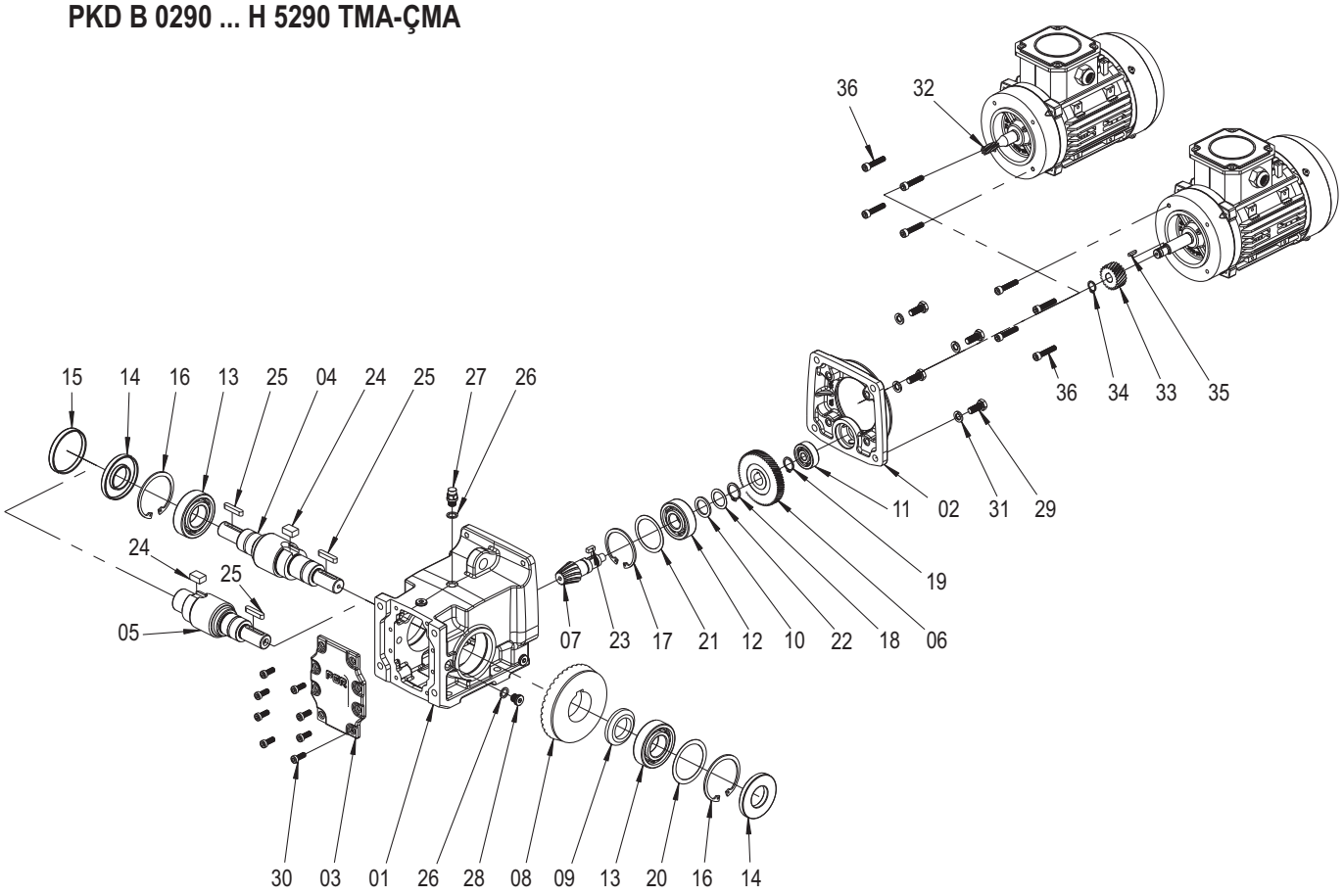


01	**PKD DA-DG Gövde**	01	PKD DA-DG Gear Case
02	**PKD DA-DG Şaftı**	02	Output shaft
03	**PKD DA-DG KS Şaftı**	03	Output shaft with KS
04	**Şaft Koruma Kapağı**	04	Shaft Protection Cap
05	**KS Koruma Kapağı**	05	Shrink Disc Protection Cap
06	**Konik Sıktırma**	06	Shrink Disc
07	**KS Burcu**	07	KS Spacer
08	**Çektirme Rondelası**	08	Fixing element
09	**Çektirme Civatası**	09	Bolt
10	**Yaylı Rondela**	10	Spring Washer
11	**Segman**	11	Circlip
12	**Civata**	12	Bolt

TR GENEL PARÇA LİSTESİ

EN GENERAL PART LIST

PKD B 0290 ... H 5290 TMA-ÇMA

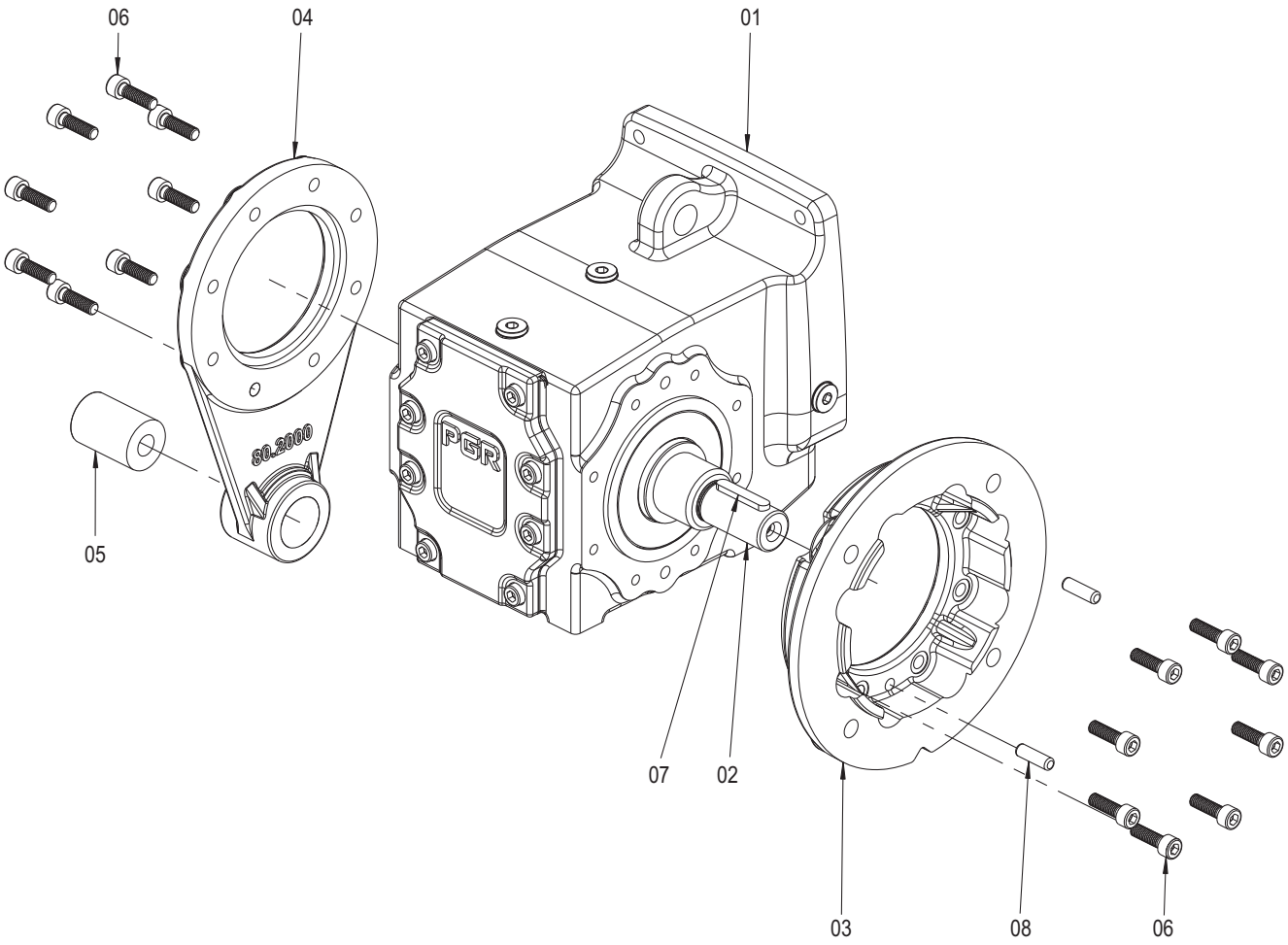


01	**PKD DA Gövde**	01	PKD DA Gear Case
02	**Ara Bağlantı Flanşı**	02	Secondary Flange
03	**Arka Kapak**	03	Gear Case Cover
04	**Çift Çıkış Mili**	04	Solid shaft on both side
05	**Tek Çıkış Mili**	05	Solid shaft
06	**Z2 Dişlisi**	06	Z2 Gear
07	**Z3 Dişlisi**	07	Z3 Gear
08	**Z4 Dişlisi**	08	Z4 Gear
09	**Burç**	09	Washer
10	**Rondela**	10	Washer
11	**Rulman**	11	Bearing
12	**Rulman**	12	Bearing
13	**Rulman**	13	Bearing
14	**Yağ Keçesi**	14	Oil Seal
15	**Yağ Kapağı**	15	Oil Cap
16	**Segman**	16	Circlip
17	**Segman**	17	Circlip
18	**Segman**	18	Circlip
19	**Segman**	19	Circlip
20	**Layner**	20	Shim
21	**Layner**	21	Shim
22	**Layner**	22	Shim
23	**Kama**	23	Key
24	**Kama**	24	Key
25	**Kama**	25	Key
26	**Tapa Rondelası**	26	Washer
27	**Havalandırma Tapası**	27	Vent Plug
28	**Yağ Tapası**	28	Oil Plug
29	**Civata**	29	Bolt
30	**Civata**	30	Bolt
31	**Yaylı Rondela**	31	Spring Washer
32	**Yekpare Z1 Dişli**	32	Z1 Pinion, gearcut,
33	**Çakma Z1 Dişli**	33	Z1 Pinion, plain
34	**Segman**	34	Circlip
35	**Kama**	35	Key
36	**Civata**	36	Bolt

TR GENEL PARÇA LİSTESİ

EN GENERAL PART LIST

PKD B 0290 ... H 5290 TMG - TK - B5

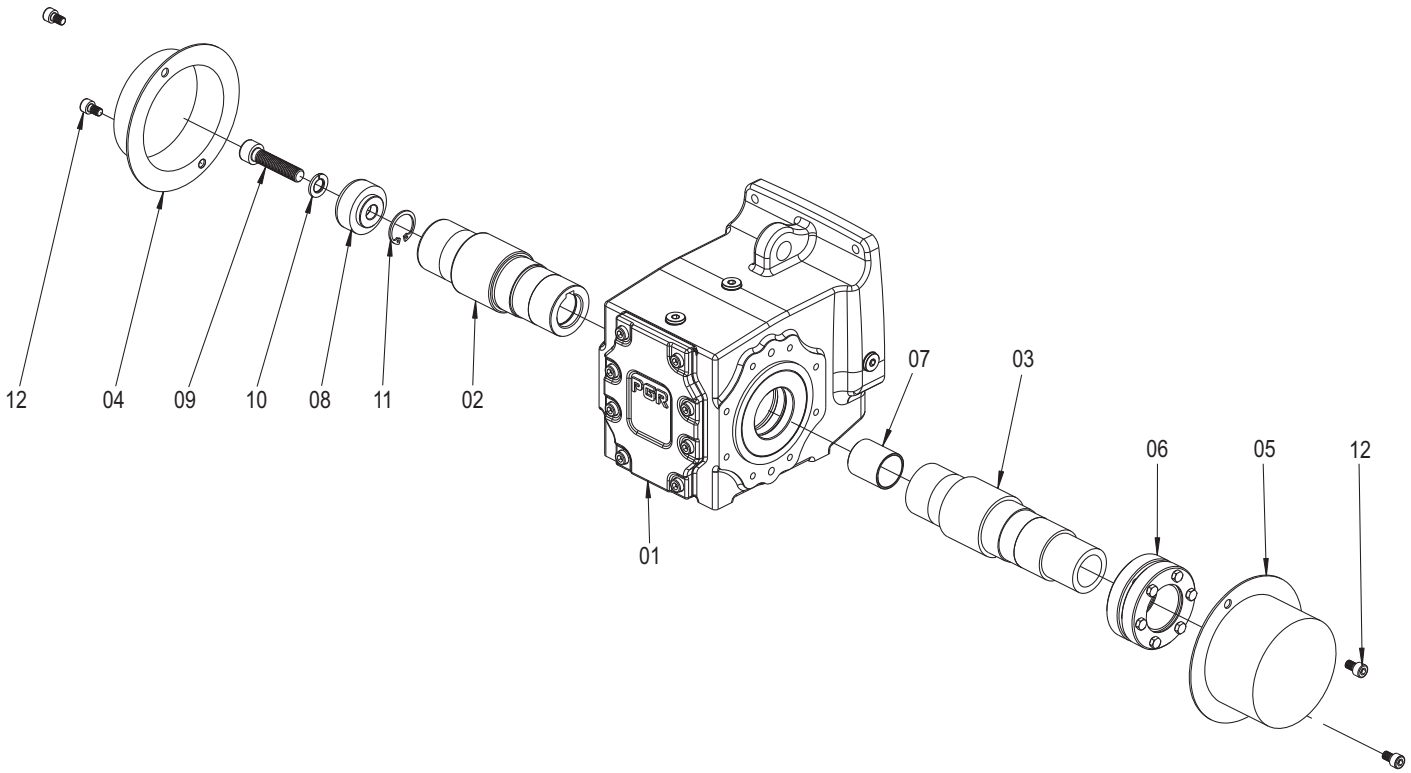


01	**PKD DG Gövde**	01	PKD DG Gear Case
02	**TMG Çıkış Mili**	02	Solid shaft
03	**B5 Çıkış Flanşı**	03	B5 Flange
04	**Tork Kolu**	04	Torque arm
05	**Lastik Takoz**	05	Rubber Buffer
06	**Civata**	06	Bolt
07	**Kama**	07	Key
08	**Pim**	08	Pin

TR GENEL PARÇA LİSTESİ

EN GENERAL PART LIST

PKD B 0290 ... H 5290 DG KS-KK+Ç-K

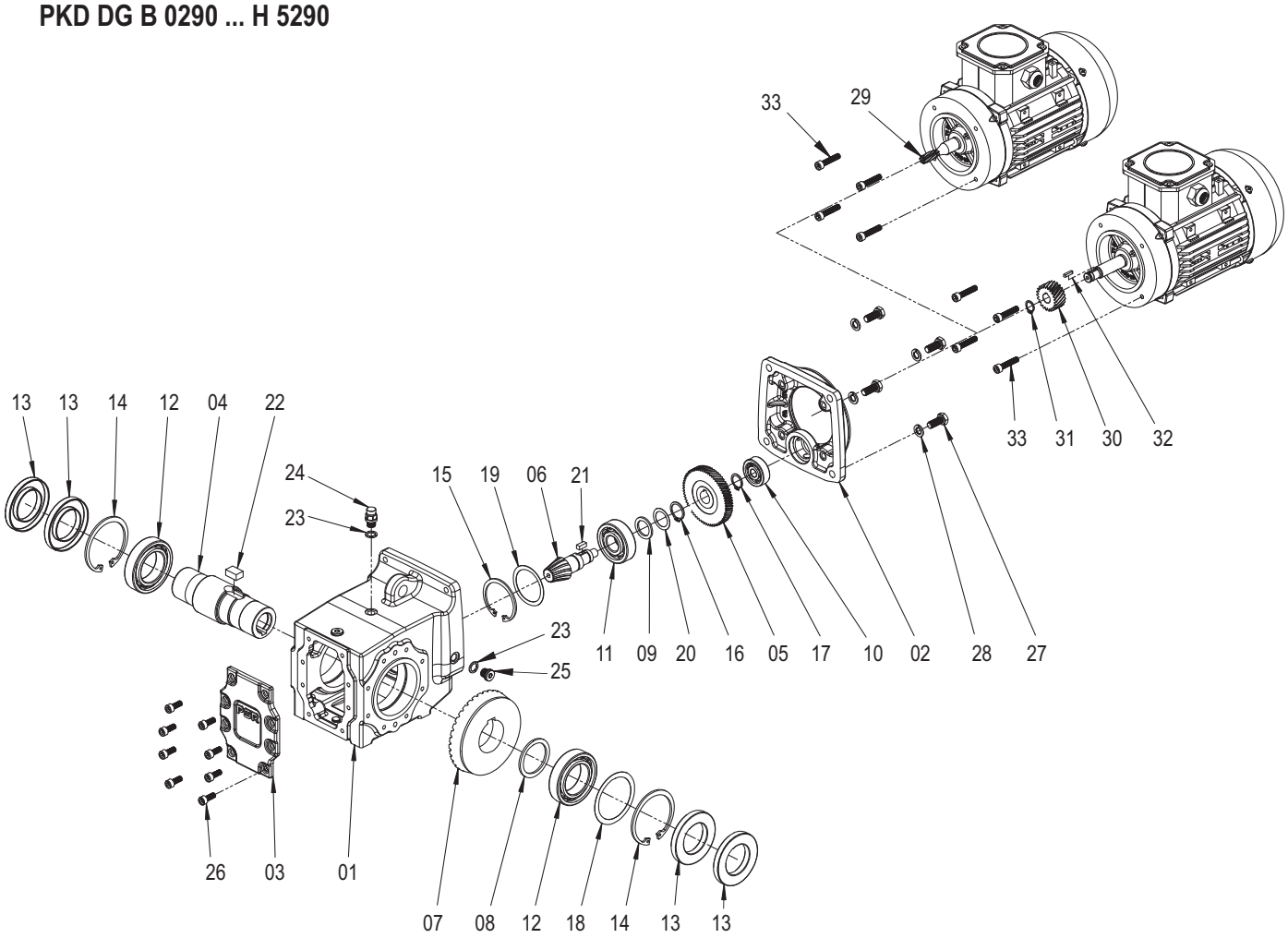


01	**PKD DG Gövde**	01	PKD DG Gear Case
02	**PKD DG Şaftı**	02	Output shaft
03	**PKD DG KS Şaftı**	03	Output shaft with KS
04	**Şaft Koruma Kapağı**	04	Shaft Protection Cap
05	**KS Koruma Kapağı**	05	Shrink Disc Protection Cap
06	**Konik Sıktırma**	06	Shring Disc
07	**KS Burcu**	07	Spacer
08	**Çektirme Rondelası**	08	Fixing Element
09	**Çektirme Civatası**	09	Bolt
10	**Yaylı Rondela**	10	Spring Washer
11	**Segman**	11	Circlip
12	**Civata**	12	Bolt

TR GENEL PARÇA LİSTESİ

EN GENERAL PART LIST

PKD DG B 0290 ... H 5290

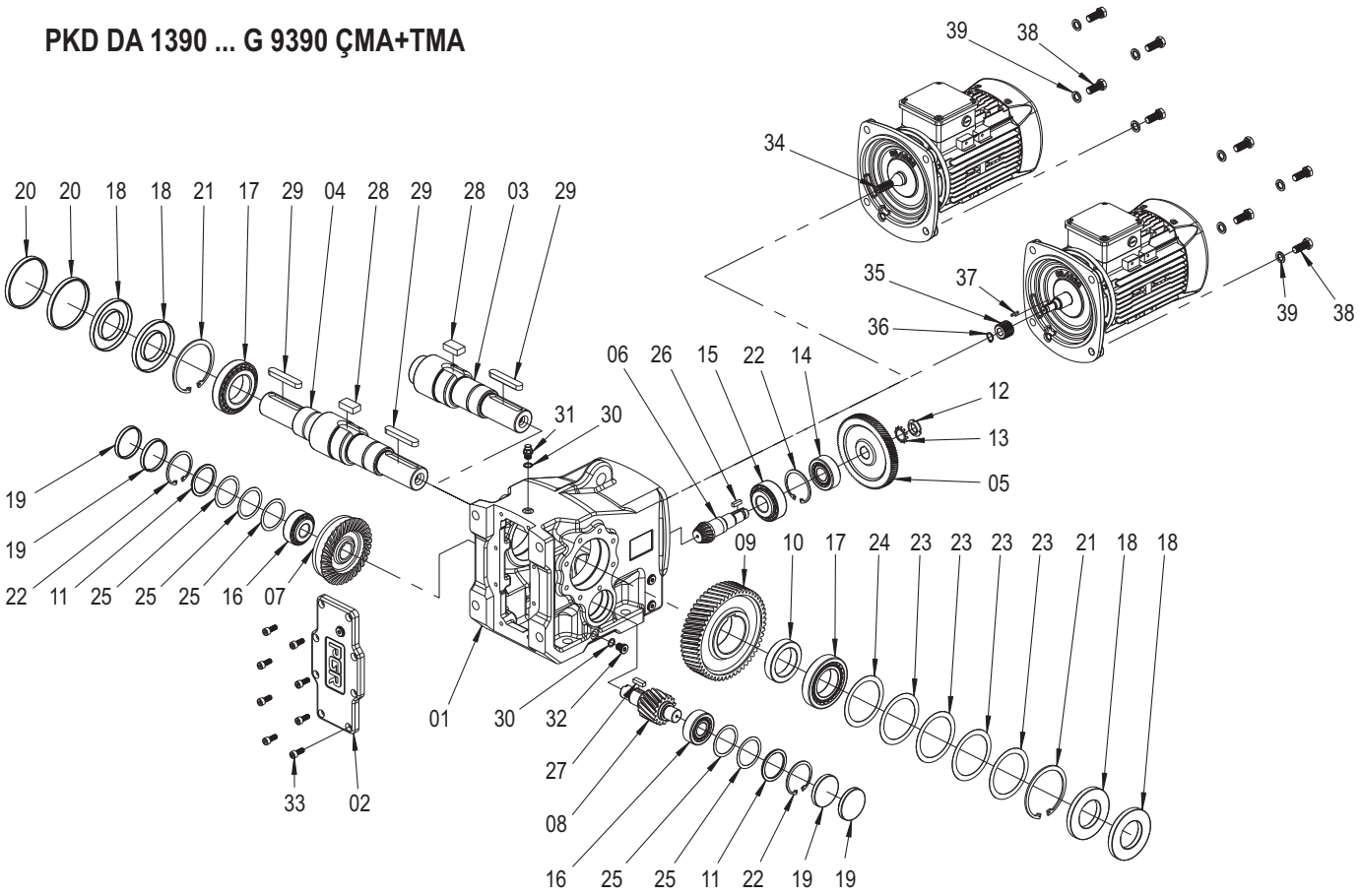


01	**Gövde**	01	Gear Case
02	**Ara Bağlantı Flanşı**	02	Secondary Flange
03	**Arka Kapak**	03	Gear Case Cover
04	**Çıkış Şaftı**	04	Hollow shaft
05	**Z2 Dişlisi**	05	Z2 Gear
06	**Z3 Dişlisi**	06	Z3 Gear
07	**Z4 Dişlisi**	07	Z4 Gear
08	**Rondela**	08	Washer
09	**Rondela**	09	Washer
10	**Rulman**	10	Bearing
11	**Rulman**	11	Bearing
12	**Rulman**	12	Bearing
13	**Yağ Keçesi**	13	Oil Seal
14	**Segman**	14	Circlip
15	**Segman**	15	Circlip
16	**Segman**	16	Circlip
17	**Segman**	17	Circlip
18	**Layner**	18	Shim
19	**Layner**	19	Shim
20	**Layner**	20	Shim
21	**Kama**	21	Key
22	**Kama**	22	Key
23	**Tapa Rondelası**	23	Washer
24	**Havalandırma Tapası**	24	Vent Plug
25	**Yağ Tapası**	25	Oil Plug
26	**Civata**	26	Bolt
27	**Civata**	27	Bolt
28	**Yaylı Rondela**	28	Spring Washer
29	**Yekpare Z1 Dişli**	29	Z1 Pinion, gearcut,
30	**Çakma Z1 Dişli**	30	Z1 Pinion, plain
31	**Segman**	31	Circlip
32	**Kama**	32	Key
33	**Civata**	33	Bolt

TR GENEL PARÇA LİSTESİ

EN GENERAL PART LIST

PKD DA 1390 ... G 9390 ÇMA+TMA

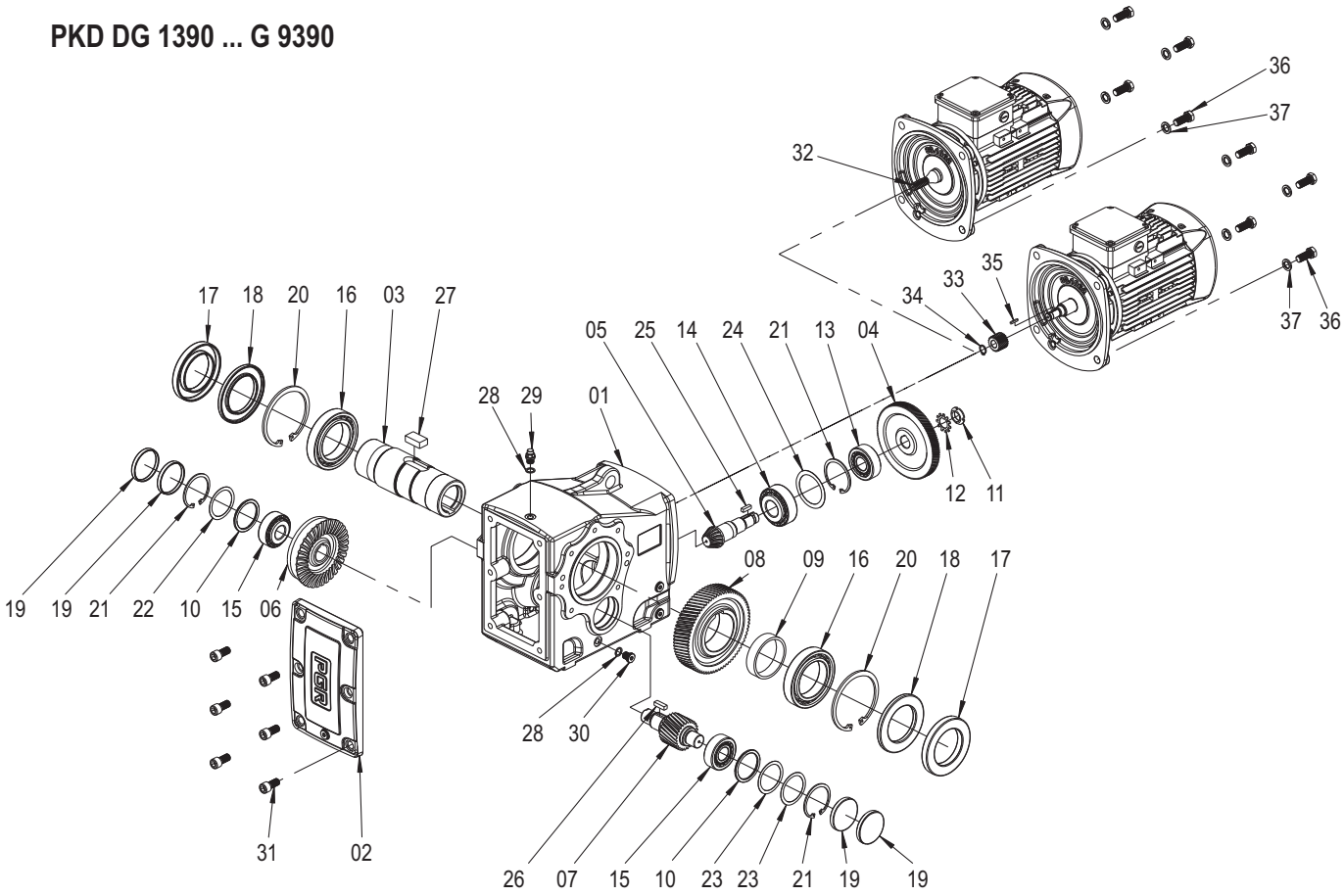


01	**PKD DA Gövde**	01	PKD DA Gear Case
02	**Arka Kapak**	02	Gear Case Cover
03	**Tek Çıkış Mili**	03	Solid shaft
04	**Çift Çıkış Mili**	04	Solid shaft on both side
05	**Z2 Dişlisi**	05	Z2 Gear
06	**Z3 Dişlisi**	06	Z3 Gear
07	**Z4 Dişlisi**	07	Z4 Gear
08	**Z5 Dişlisi**	08	Z5 Gear
09	**Z6 Dişlisi**	09	Z6 Gear
10	**Burç**	10	Washer
11	**Rondela**	11	Washer
12	**Yarıklı Somun**	12	Slotted round nut
13	**Tırnaklı Rondela**	13	Tap Washer
14	**Rulman**	14	Bearing
15	**Rulman**	15	Bearing
16	**Rulman**	16	Bearing
17	**Rulman**	17	Bearing
18	**Yağ Keçesi**	18	Oil Seal
19	**Yağ Kapağı**	19	Oil Cap
20	**Yağ Kapağı**	20	Oil Cap
21	**Segman**	21	Circlip
22	**Segman**	22	Circlip
23	**Layner**	23	Shim
24	**Layner**	24	Shim
25	**Layner**	25	Shim
26	**Kama**	26	Key
27	**Kama**	27	Key
28	**Kama**	28	Key
29	**Kama**	29	Key
30	**Tapa Rondelası**	30	Washer
31	**Havalandırma Tapası**	31	Vent Plug
32	**Yağ Tapası**	32	Oil Plug
33	**Civata**	33	Bolt
34	**Yekpare Z1 Dişli**	34	Z1 Pinion, gearcut,
35	**Çakma Z1 Dişli**	35	Z1 Pinion, plain
36	**Segman**	36	Circlip
37	**Kama**	37	Key
38	**Civata**	38	Bolt
39	**Yaylı Rondela**	39	Spring Washer

TR GENEL PARÇA LİSTESİ

EN GENERAL PART LIST

PKD DG 1390 ... G 9390



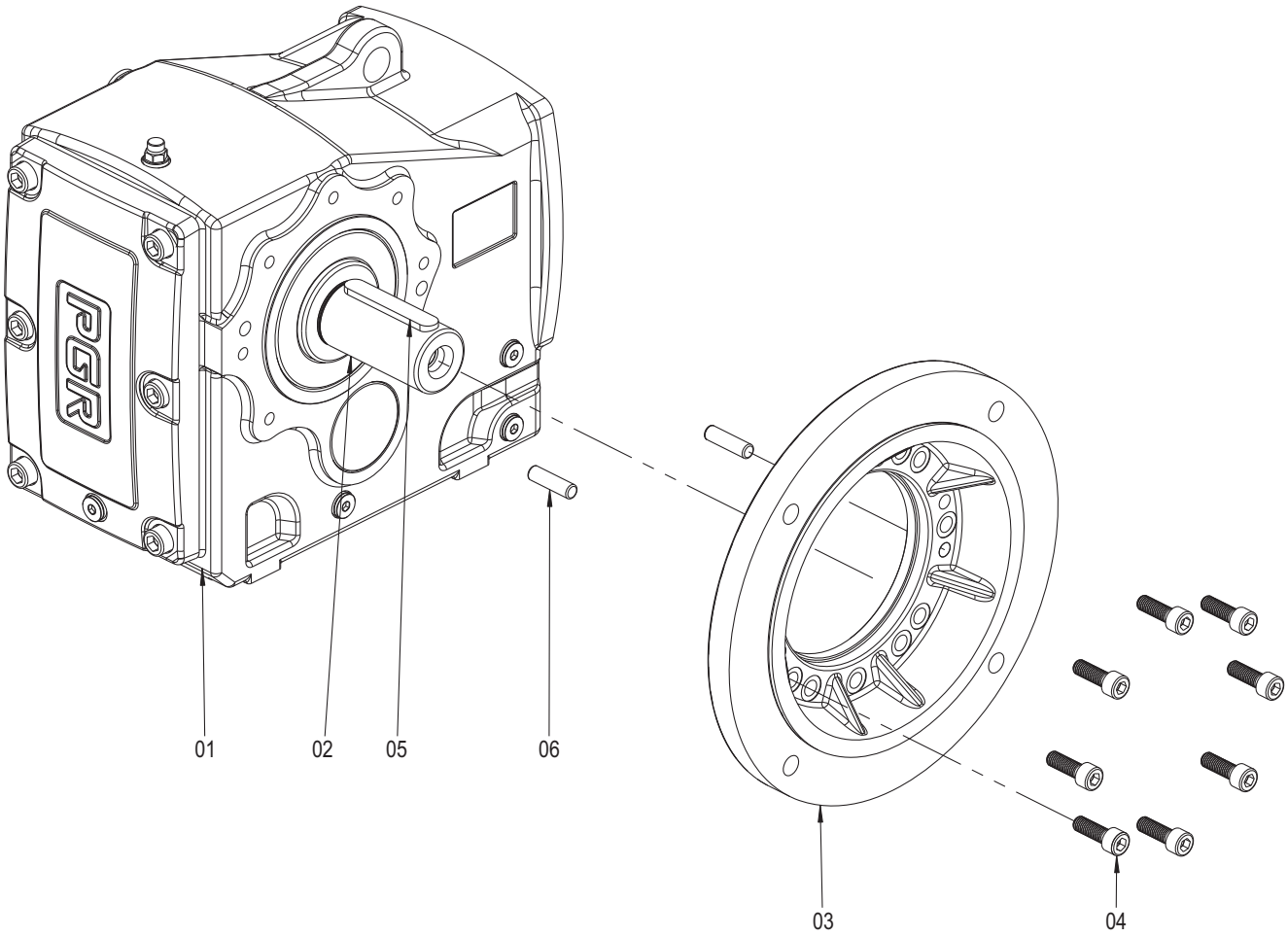
01	**Gövde**
02	**Arka Kapak**
03	**Çıkış Şaftı**
04	**Z2 Dişlisi**
05	**Z3 Dişlisi**
06	**Z4 Dişlisi**
07	**Z5 Dişlisi**
08	**Z6 Dişlisi**
09	**Burç**
10	**Rondela**
11	**Yarıklı Somun**
12	**Tırnaklı Rondela**
13	**Rulman**
14	**Rulman**
15	**Rulman**
16	**Rulman**
17	**Yağ Keçesi**
18	**Yağ Keçesi**
19	**Yağ Kapağı**
20	**Segman**
21	**Segman**
22	**Layner**
23	**Layner**
24	**Layner**
25	**Kama**
26	**Kama**
27	**Kama**
28	**Tapa Rondelası**
29	**Havalandırma Tapası**
30	**Yağ Tapası**
31	**Civata**
32	**Yekpare Z1 Dişli**
33	**Çakma Z1 Dişli**
34	**Segman**
35	**Kama**
36	**Civata**
37	**Yaylı Rondela**

01	Gear Case
02	Gear Case Cover
03	Hollow shaft
04	Z2 Gear
05	Z3 Gear
06	Z4 Gear
07	Z5 Gear
08	Z6 Gear
09	Spacer
10	Washer
11	Slotted round nut
12	Tap Washer
13	Bearing
14	Bearing
15	Bearing
16	Bearing
17	Oil Seal
18	Oil Seal
19	Oil Cap
20	Circlip
21	Circlip
22	Shim
23	Shim
24	Shim
25	Key
26	Key
27	Key
28	Washer
29	Vent Plug
30	Oil Plug
31	Bolt
32	Z1 Pinion, gearcut,
33	Z1 Pinion, plain
34	Circlip
35	Key
36	Bolt
37	Spring Washer

TR GENEL PARÇA LİSTESİ

EN GENERAL PART LIST

PKD DG 1390 ... G 9390 TMG+B5

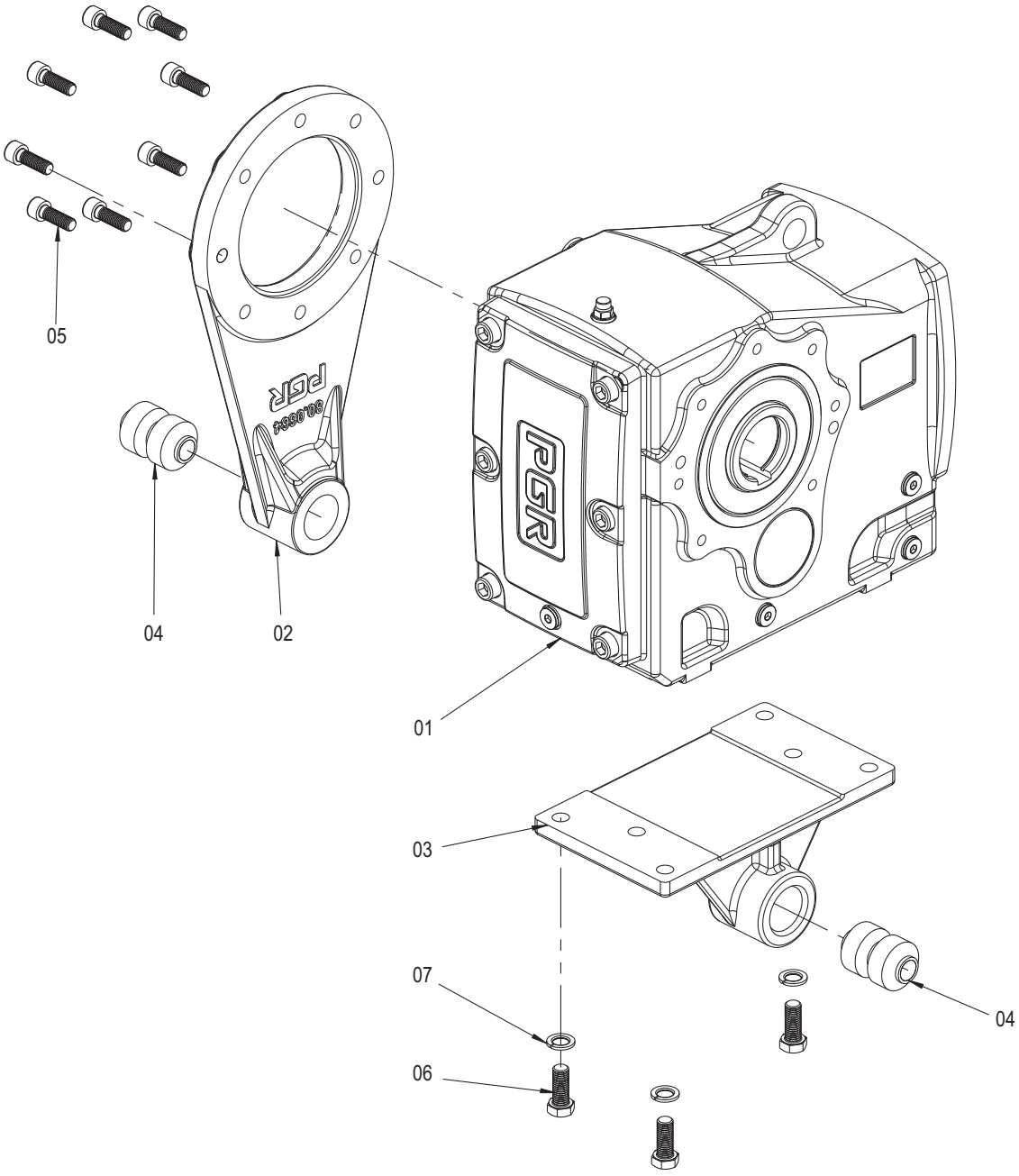


01	**PKD DG Gövde**	01	PKD DG Gear Case
02	**TMG Çıkış Mili**	02	Solid shaft
03	**B5 Çıkış Flanşı**	03	B5 Flange
04	**Civata**	04	Bolt
05	**Kama**	05	Key
06	**Pim**	06	Pin

TR GENEL PARÇA LİSTESİ

EN GENERAL PART LIST

PKD DG 1390 ... G 9390 TKP+TK

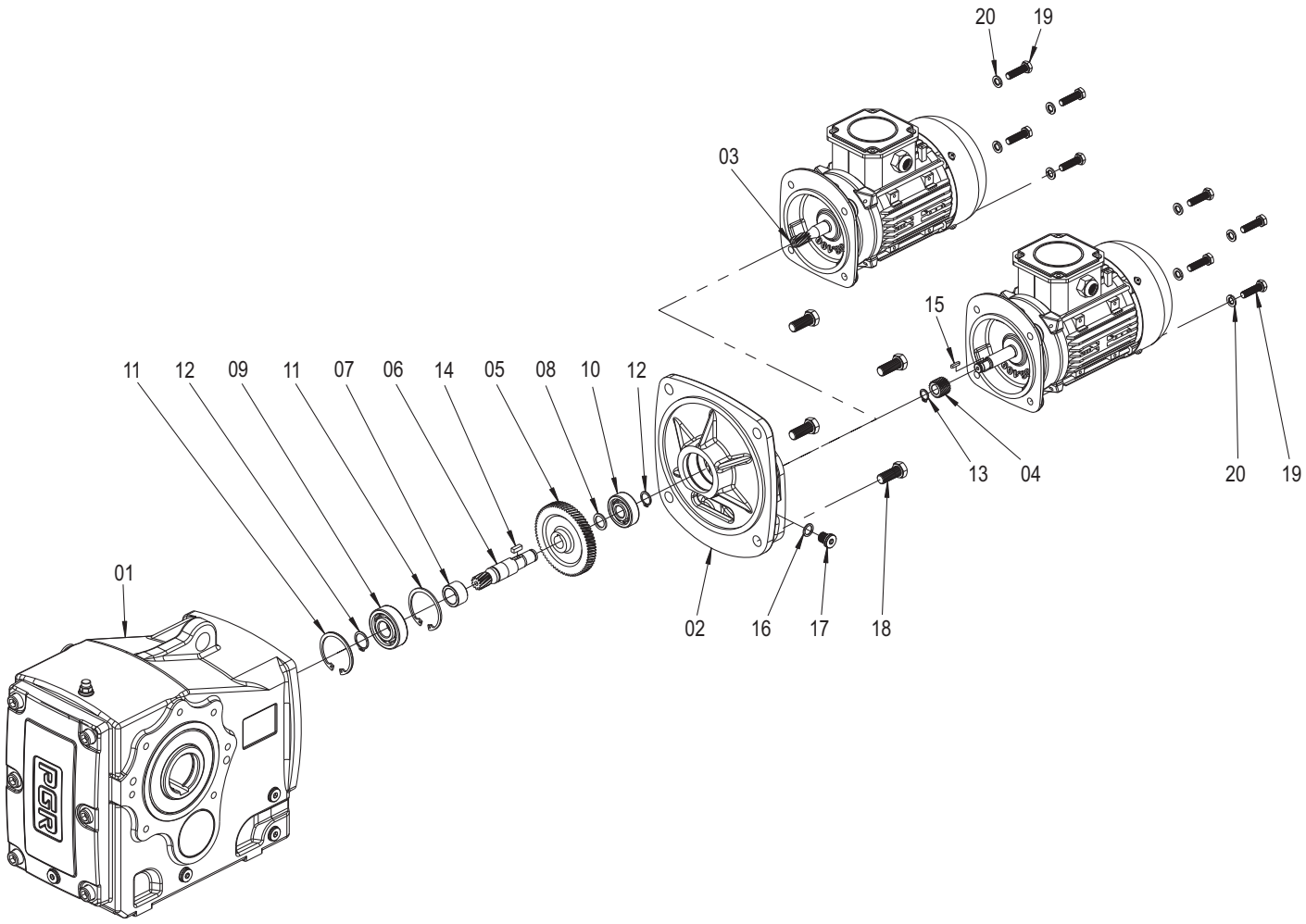


01	**PKD DG Gövde**	01	PKD DG Gear Case
02	**Tork Kolu**	02	Torque arm
03	**Tork Kolu Platformu**	03	Torque arm platform
04	**Lastik Takoz**	04	Rubber Buffer
05	**Civata**	05	Bolt
06	**Civata**	06	Bolt
07	**Yaylı Rondela**	07	Spring Washer

TR GENEL PARÇA LİSTESİ

EN GENERAL PART LIST

PKD DG 1390 ... G 9390

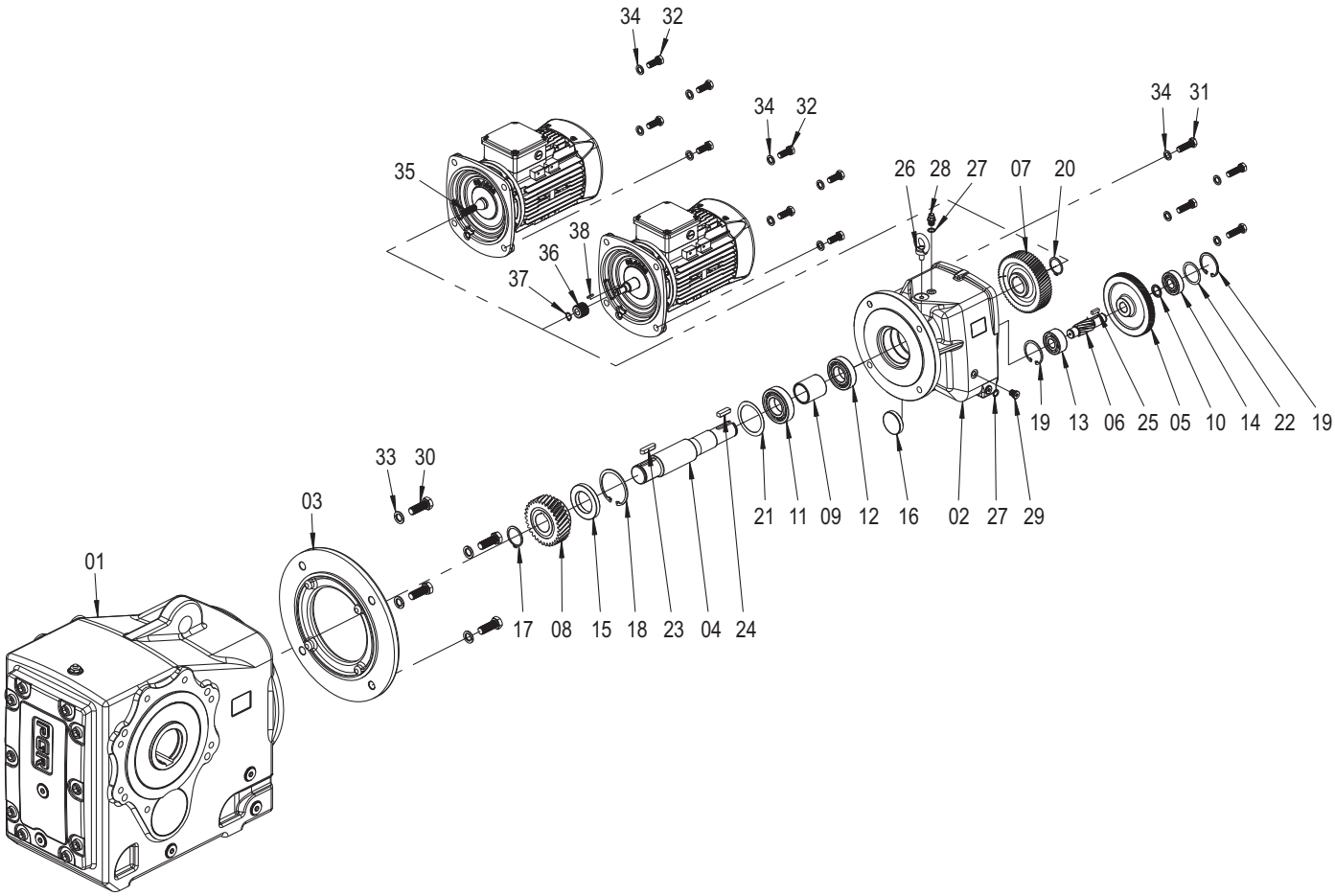


01	**PKD 3 Kademe Montajı**	01	PKD 3 Stages Mounting
02	**İndrigeyici Gövde**	02	Third reduction gearcase
03	**Yekpare Z1 Dişlisi**	03	Z1 Pinion, gearcut,
04	**Çakma Z1 Dişlisi**	04	Z1 Pinion, plain
05	**Z2 Dişlisi**	05	Z2 gear
06	**Z3 Dişlisi**	06	Z3 gear
07	**Burç**	07	Spacer
08	**Rondela**	08	Washer
09	**Rulman**	09	Bearing
10	**Rulman**	10	Bearing
11	**Segman**	11	Circlip
12	**Segman**	12	Circlip
13	**Segman**	13	Circlip
14	**Kama**	14	Key
15	**Kama**	15	Key
16	**Tapa Rondelası**	16	Washer
17	**Yağ Tapası**	17	Oil Plug
18	**Civata**	18	Bolt
19	**Civata**	19	Bolt
20	**Yaylı Rondela**	20	Spring Washer

TR GENEL PARÇA LİSTESİ

EN GENERAL PART LIST

PKD DG 6390-32



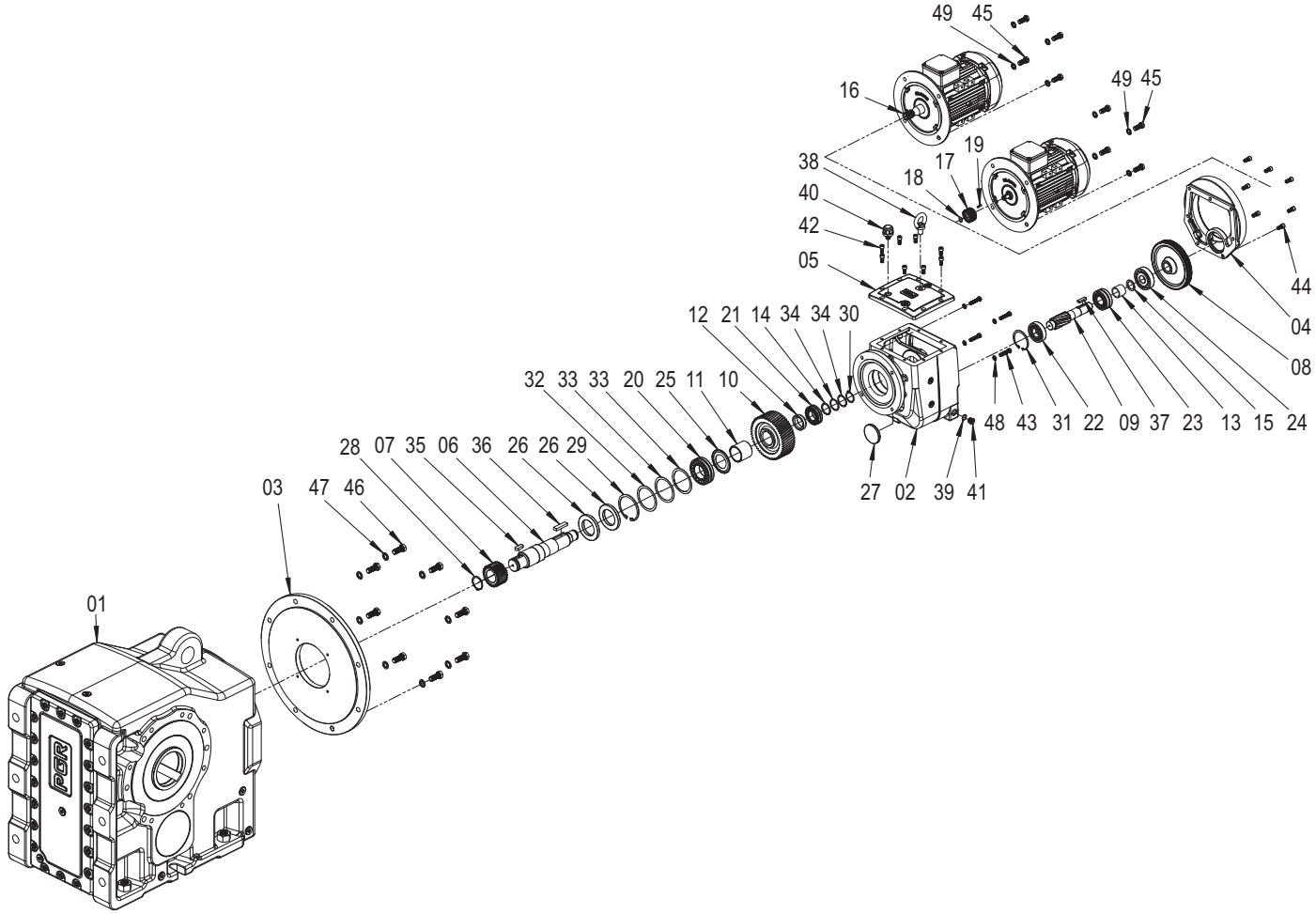
01	**PKD 3 Kademe Montajı**	**31**	**Civata**
02	**PF Gövde**	**32**	**Civata**
03	**Ara Flanş**	**33**	**Yaylı Rondela**
04	**Ara Mil**	**34**	**Yaylı Rondela**
05	**Z2 Dişlisi**	**35**	**Yekpare Z1 Dişli**
06	**Z3 Dişlisi**	**36**	**Çakma Z1 Dişli**
07	**Z4 Dişlisi**	**37**	**Segman**
08	**PKD Z1 Dişlisi**	**38**	**Kama**
09	**Burç**		
10	**Rondela**		
11	**Rulman**		
12	**Rulman**		
13	**Rulman**		
14	**Rulman**		
15	**Yağ Keçesi**		
16	**Yağ Kapağı**		
17	**Segman**		
18	**Segman**		
19	**Segman**		
20	**Segman**		
21	**Layner**		
22	**Layner**		
23	**Kama**		
24	**Kama**		
25	**Kama**		
26	**Mapa**		
27	**Tapa Rondelası**		
28	**Havalandırma Tapası**		
29	**Yağ Tapası**		
30	**Civata**		

01	PKD 3 Stages Mounting	31	Bolt
02	PF Gearcase	32	Bolt
03	Intermediate flange	33	Spring Washer
04	Intermediate shaft	34	Spring Washer
05	Z2 gear	35	Z1 Pinion, gearcut,
06	Z3 gear	36	Z1 Pinion, plain
07	Z4 gear	37	Circlip
08	Driving pinion gear	38	Key
09	Spacer		
10	Washer		
11	Bearing		
12	Bearing		
13	Bearing		
14	Bearing		
15	Oil Seal		
16	Oil Cap		
17	Circlip		
18	Circlip		
19	Circlip		
20	Circlip		
21	Shim		
22	Shim		
23	Key		
24	Key		
25	Key		
26	Eyebolt		
27	Washer		
28	Vent Plug		
29	Oil Plug		
30	Bolt		

TR GENEL PARÇA LİSTESİ

EN GENERAL PART LIST

PKD DA - DG G 9390 - 62



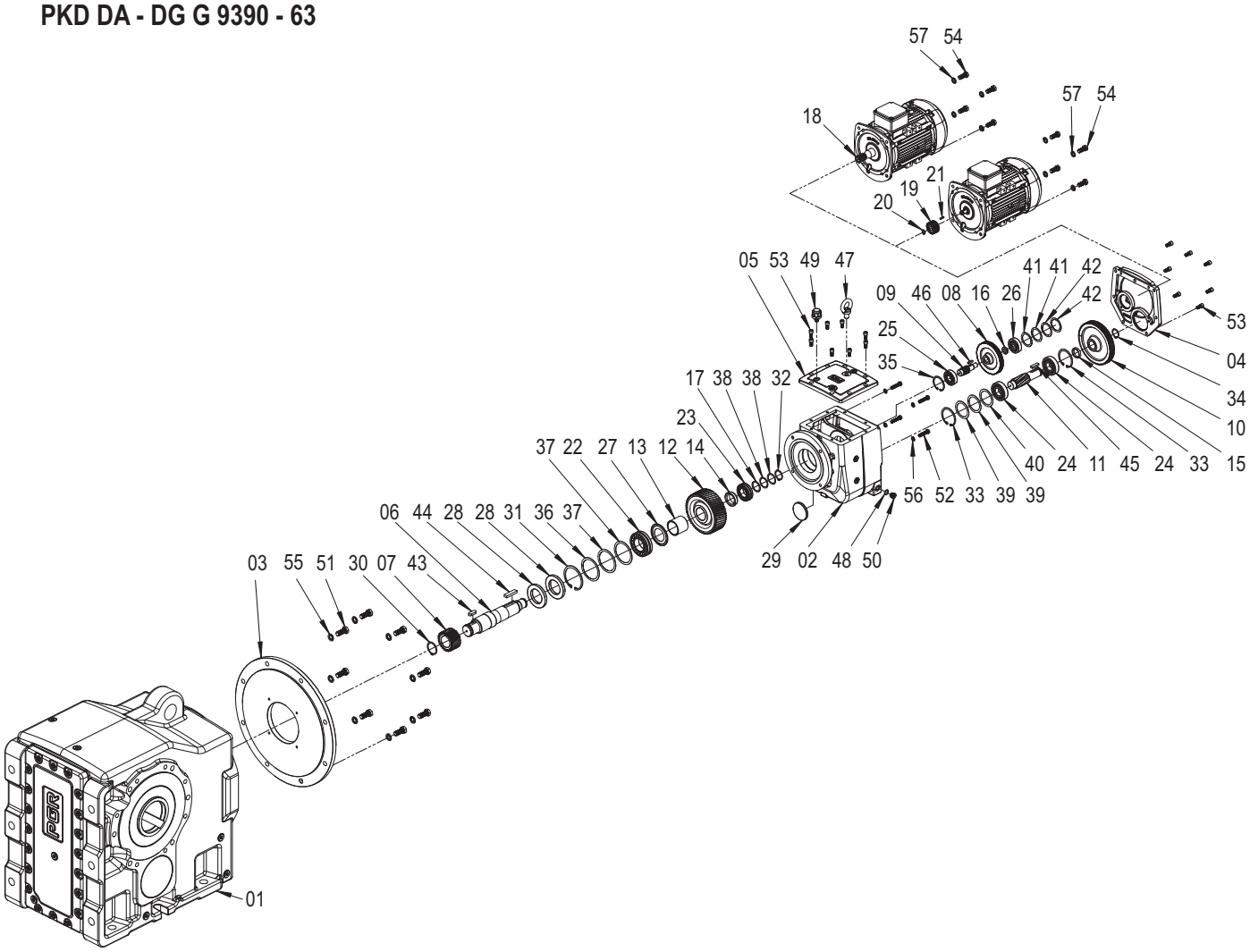
01	PKD 3 Kademe Montajı	28	Segman
02	PF Gövde	29	Segman
03	Ara Flanş	30	Segman
04	Ara Bağlantı Flanşı	31	Segman
05	Üst Kapak	32	Layner
06	PF Ara Mil	33	Layner
07	PF Z1 Dişlisi	34	Layner
08	Z2 Dişlisi	35	Kama
09	Z3 Dişlisi	36	Kama
10	Z4 Dişlisi	37	Kama
11	Burç	38	Mapa
12	Konik Burç	39	Tapa Rondelası
13	Burç	40	Havalandırma Tapası
14	Rondela	41	Yağ Tapası
15	Rondela	42	Civata
16	Yekpare Z1 Dişlisi	43	Civata
17	Çakma Z1 Dişlisi	44	Civata
18	Segman	45	Civata
19	Kama	46	Civata
20	Rulman	47	Yaylı Rondela
21	Rulman	48	Yaylı Rondela
22	Rulman	49	Yaylı Rondela
23	Rulman		
24	Rulman		
25	Nilosring		
26	Yağ Keçesi		
27	Yağ Kapağı		

01	PKD 3 Stages Mounting	28	Circlip
02	PF Gear Case	29	Circlip
03	Intermediate flange	30	Circlip
04	Secondary Flange	31	Circlip
05	Gear Case Cover	32	Shim
06	PF Intermediate shaft	33	Shim
07	Driving pinion gear	34	Shim
08	Z2 Gear	35	Key
09	Z3 Gear	36	Key
10	Z4 Gear	37	Key
11	Spacer	38	Eyebolt
12	Spacer	39	Washer
13	Spacer	40	Vent Plug
14	Washer	41	Oil Plug
15	Washer	42	Bolt
16	Z1 Pinion, gearcut,	43	Bolt
17	Z1 Pinion, plain	44	Bolt
18	Circlip	45	Bolt
19	Key	46	Bolt
20	Bearing	47	Spring Washer
21	Bearing	48	Spring Washer
22	Bearing	49	Spring Washer
23	Bearing		
24	Bearing		
25	Nilosring		
26	Oil Seal		
27	Oil Cap		

TR GENEL PARÇA LİSTESİ

EN GENERAL PART LIST

PKD DA - DG G 9390 - 63



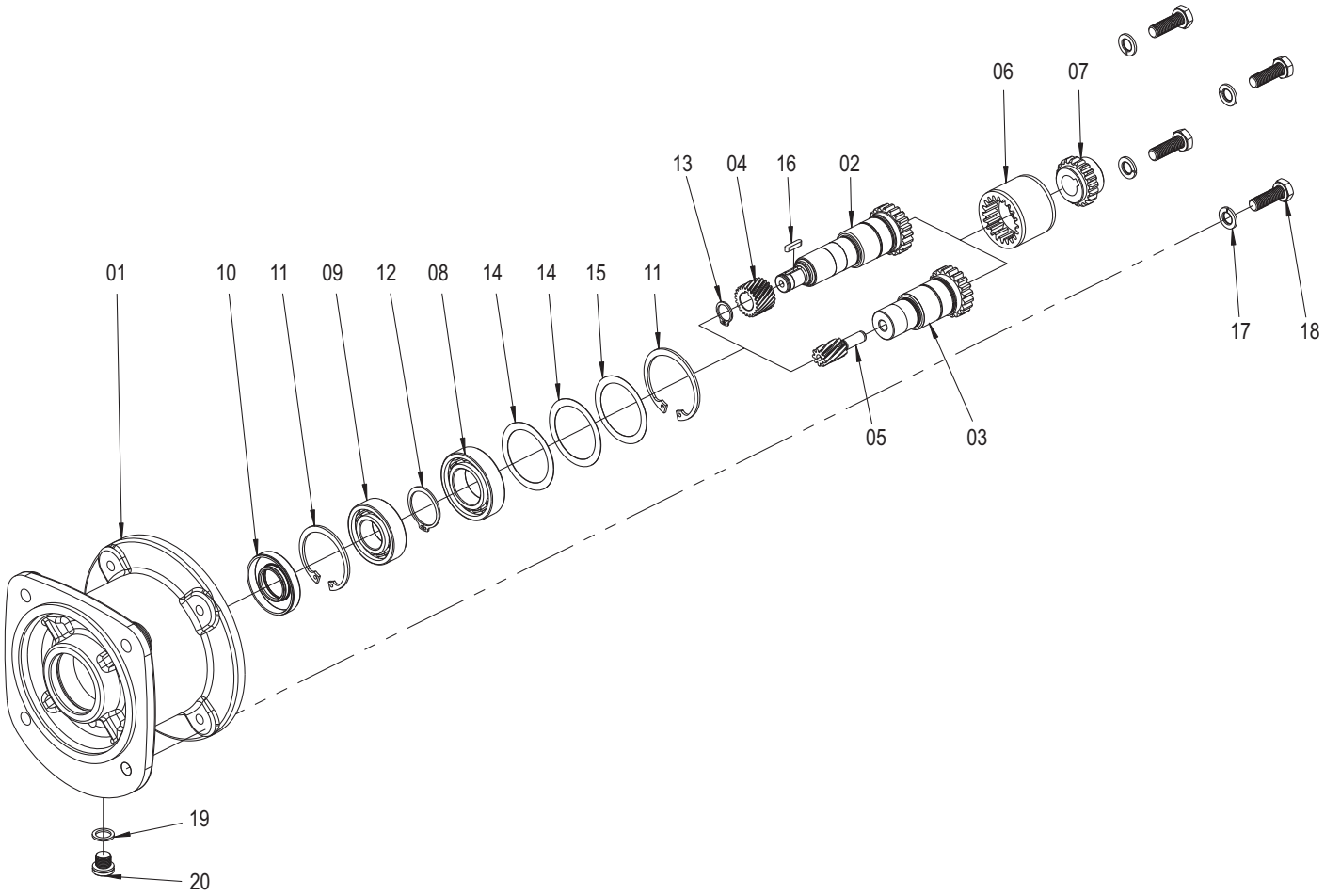
01	PKD 3 Kademe Montajı	30	Segman
02	PF Gövde	31	Segman
03	Ara Flanş	32	Segman
04	Ara Bağlantı Flanşı	33	Segman
05	Üst Kapak	34	Segman
06	PF Ara Mil	35	Segman
07	PF Z1 Dişlisi	36	Layner
08	Z2 Dişlisi	37	Layner
09	Z3 Dişlisi	38	Layner
10	Z4 Dişlisi	39	Layner
11	Z5 Dişlisi	40	Layner
12	Z6 Dişlisi	41	Layner
13	Burç	42	Layner
14	Konik Burç	43	Kama
15	Burç	44	Kama
16	Burç	45	Kama
17	Rondela	46	Kama
18	Yekpare Z1 Dişlisi	47	Mapa
19	Çakma Z1 Dişlisi	48	Tapa Rondelası
20	Segman	49	Havalandırma Tapası
21	Kama	50	Yağ Tapası
22	Rulman	51	Civata
23	Rulman	52	Civata
24	Rulman	53	Civata
25	Rulman	54	Civata
26	Rulman	55	Yaylı Rondela
27	Nilosring	56	Yaylı Rondela
28	Yağ Keçesi	57	Yaylı Rondela
29	Yağ Kapağı		

01	PKD 3 Stages Mounting	30	Circlip
02	PF Gear Case	31	Circlip
03	Intermediate flange	32	Circlip
04	Secondary Flange	33	Circlip
05	Gear Case Cover	34	Circlip
06	PF Intermediate shaft	35	Circlip
07	Driving pinion gear	36	Shim
08	Z2 Gear	37	Shim
09	Z3 Gear	38	Shim
10	Z4 Gear	39	Shim
11	Z5 Gear	40	Shim
12	Z6 Gear	41	Shim
13	Spacer	42	Shim
14	KS Spacer	43	Key
15	Spacer	44	Key
16	Spacer	45	Key
17	Washer	46	Key
18	Z1 Pinion, gearcut,	47	Eyebolt
19	Z1 Pinion, plain	48	Washer
20	Circlip	49	Vent Plug
21	Key	50	Oil Plug
22	Bearing	51	Bolt
23	Bearing	52	Bolt
24	Bearing	53	Bolt
25	Bearing	54	Bolt
26	Bearing	55	Spring Washer
27	Nilosring	56	Spring Washer
28	Oil Seal	57	Spring Washer
29	Oil Cap		

TR GENEL PARÇA LİSTESİ

EN GENERAL PART LIST

IEC 63 ... 180

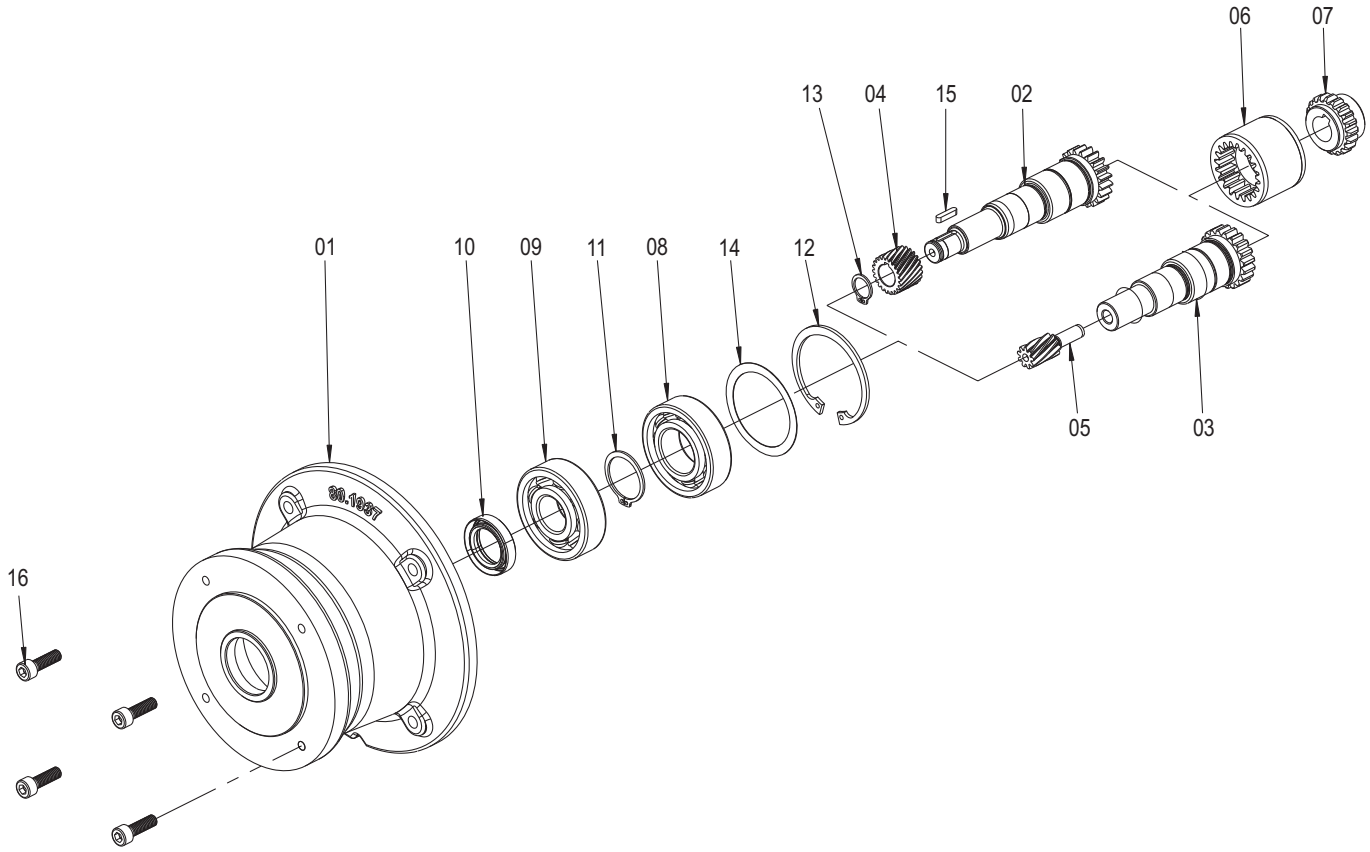


01	**IEC Gövde**	01	IEC Adapter
02	**IEC Mili (Çakma)**	02	Input Shaft, Plain
03	**Mili (Yekpare Çakma)**	03	Input Shaft, gearcut
04	**Z1 Dişlisi (Çakma)**	04	Z1 Pinion plain
05	**Z1 Dişlisi (Yekpare Çakma)**	05	Z1 Pinion gearcut, plain
06	**Plastik Kaplin**	06	Plastic Coupling
07	**Metal Kaplin**	07	Metal Coupling
08	**Rulman**	08	Bearing
09	**Rulman**	09	Bearing
10	**Yağ Keçesi**	10	Oil Seal
11	**Segman**	11	Circlip
12	**Segman**	12	Circlip
13	**Segman**	13	Circlip
14	**Layner**	14	Shim
15	**Layner**	15	Shim
16	**Kama**	16	Key
17	**Yaylı Rondela**	17	Spring Washer
18	**Civata**	18	Bolt
19	**Tapa Rondelası**	19	Washer
20	**Yağ Tapası**	20	Oil Plug

TR GENEL PARÇA LİSTESİ

EN GENERAL PART LIST

PKD (A-B-C) - PKD (F-H) IEC 63 ... 132

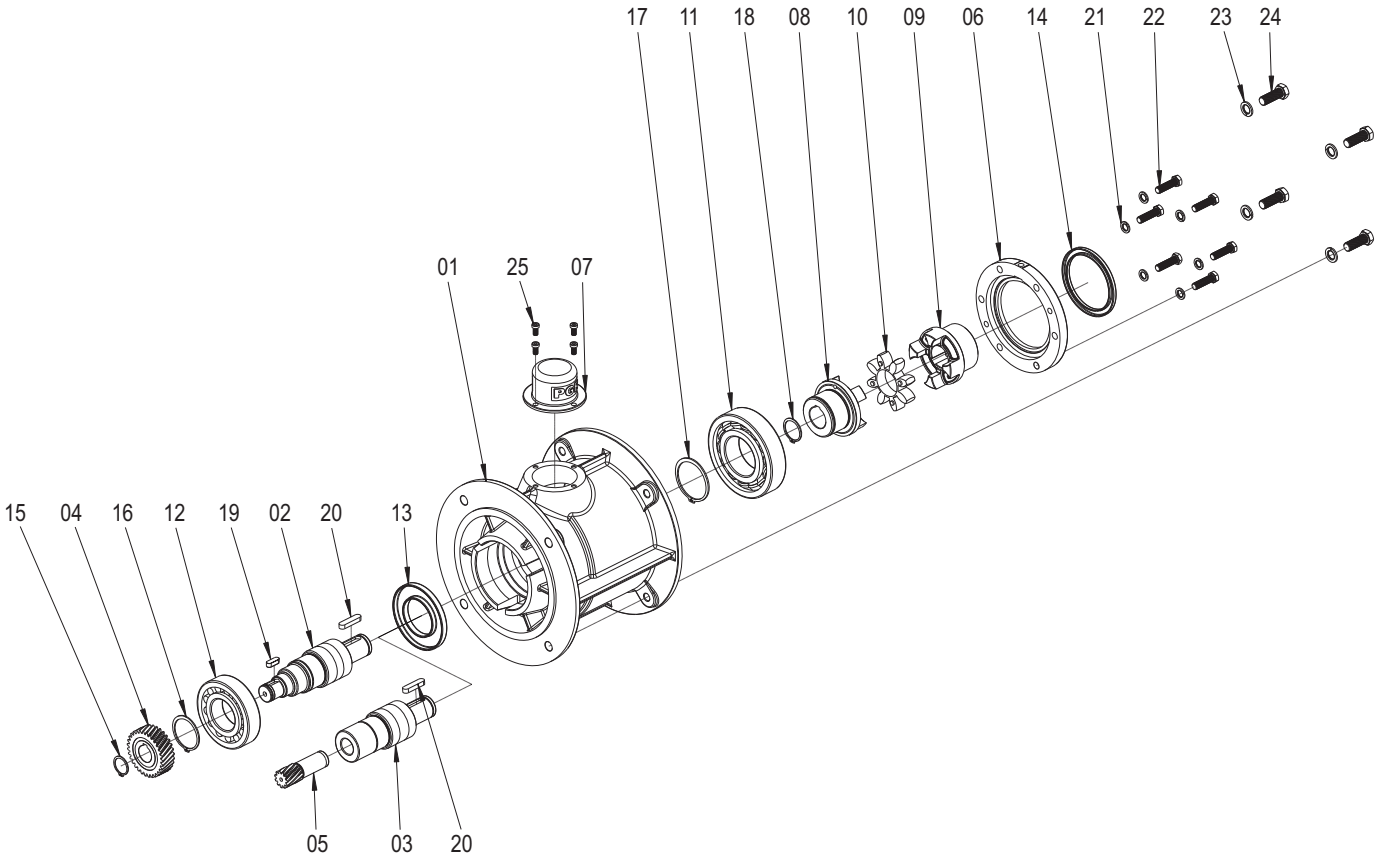


01	**IEC Gövde**	01	IEC Adapter
02	**IEC Mili (Çakma)**	02	Input Shaft, Plain
03	**IEC Mili (Yekpare Çakma)**	03	Input Shaft, gearcut
04	**Z1 Dişlisi (Çakma)**	04	Z1 Pinion plain
05	**Z1 Dişlisi (Yekpare Çakma)**	05	Z1 Pinion gearcut, plain
06	**Plastik Kaplin**	06	Plastic Coupling
07	**Metal Kaplin**	07	Metal Coupling
08	**Rulman**	08	Bearing
09	**Rulman**	09	Bearing
10	**Yağ Keçesi**	10	Oil Seal
11	**Segman**	11	Circlip
12	**Segman**	12	Circlip
13	**Segman**	13	Circlip
14	**Layner**	14	Shim
15	**Kama**	15	Key
16	**Civata**	16	Bolt

TR GENEL PARÇA LİSTESİ

EN GENERAL PART LIST

IEC 160 ... 315



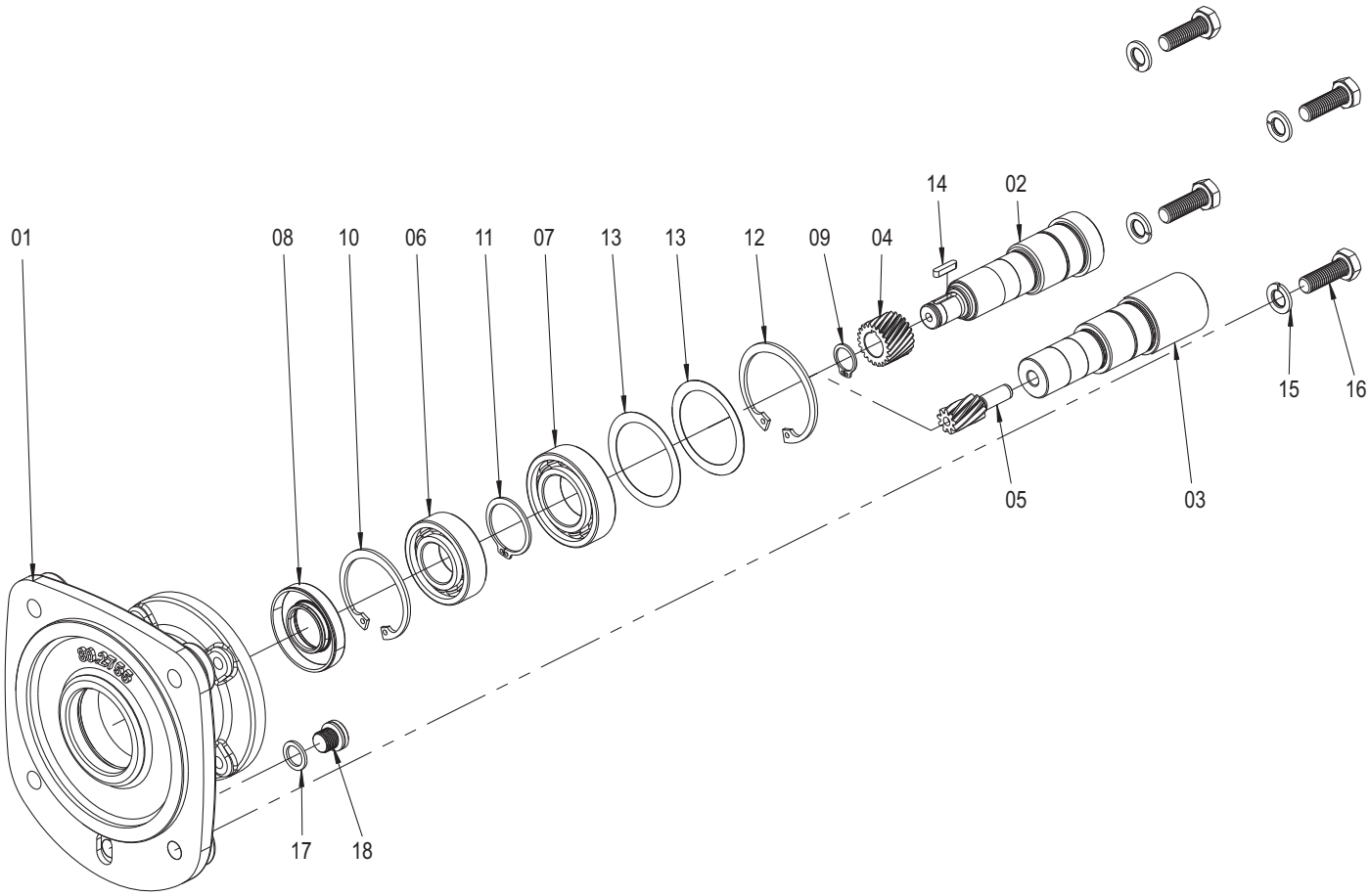
01	**IEC Gövde**
02	**IEC Mili (Çakma)**
03	**IEC Mili (Yekpare Çakma)**
04	**Z1 Dişlisi (Çakma)**
05	**Z1 Dişlisi (Yekpare Çakma)**
06	**Rulman Flanşı**
07	**Yağlama Kapağı**
08	**Kaplin 48 Redüktör Tarafı**
09	**Kaplin 48 Motor Tarafı**
10	**KTR 48 Spider**
11	**Rulman**
12	**Rulman**
13	**Yağ Keçesi**
14	**Yağ Keçesi**
15	**Segman**
16	**Segman**
17	**Segman**
18	**Segman**
19	**Kama**
20	**Kama**
21	**Yaylı Rondela**
22	**Civata**
23	**Yaylı Rondela**
24	**Civata**
25	**Civata**

01	IEC Adapter
02	Input Shaft, Plain
03	Input Shaft, gearcut
04	Z1 Pinion plain
05	Z1 Pinion gearcut, plain
06	Bearing Sleve
07	Cover
08	Coupling
09	Coupling
10	Spider
11	Bearing
12	Bearing
13	Oil Seal
14	Oil Seal
15	Circlip
16	Circlip
17	Circlip
18	Circlip
19	Key
20	Key
21	Spring Washer
22	Bolt
23	Spring Washer
24	Bolt
25	Bolt

TR GENEL PARÇA LİSTESİ

EN GENERAL PART LIST

PAM 63 ... 132 B14



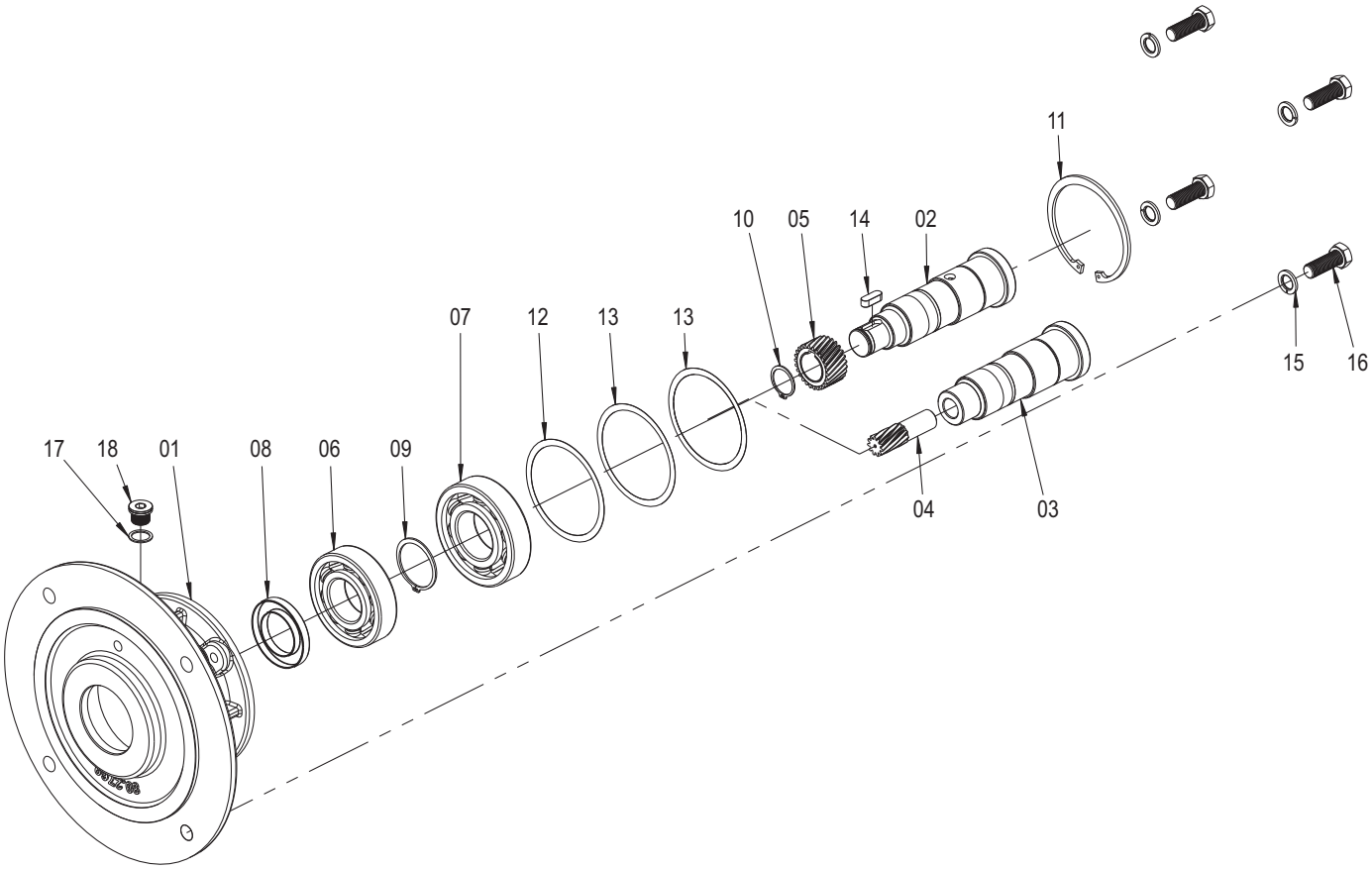
01	**PAM B14 Gövde**
02	**PAM B14 Mili (Çakma)**
03	**PAM B14 Mili (Yekpare Çakma)**
04	**Z1 Dişlisi (Çakma)**
05	**Z1 Dişlisi (Yekpare Çakma)**
06	**Rulman**
07	**Rulman**
08	**Yağ Keçesi**
09	**Segman**
10	**Segman**
11	**Segman**
12	**Segman**
13	**Layner**
14	**Kama**
15	**Yaylı Rondela**
16	**Civata**
17	**Tapa Rondelası**
18	**Yağ Tapası**

01	PAM Adapter B14
02	Input Shaft, Plain
03	Input Shaft, Gearcut
04	Z1 Pinion plain
05	Z1 Pinion gearcut, plain
06	Bearing
07	Bearing
08	Oil Seal
09	Circlip
10	Circlip
11	Circlip
12	Circlip
13	Shim
14	Key
15	Spring Washer
16	Bolt
17	Washer
18	Oil Plug

TR GENEL PARÇA LİSTESİ

EN GENERAL PART LIST

PAM 132 B14



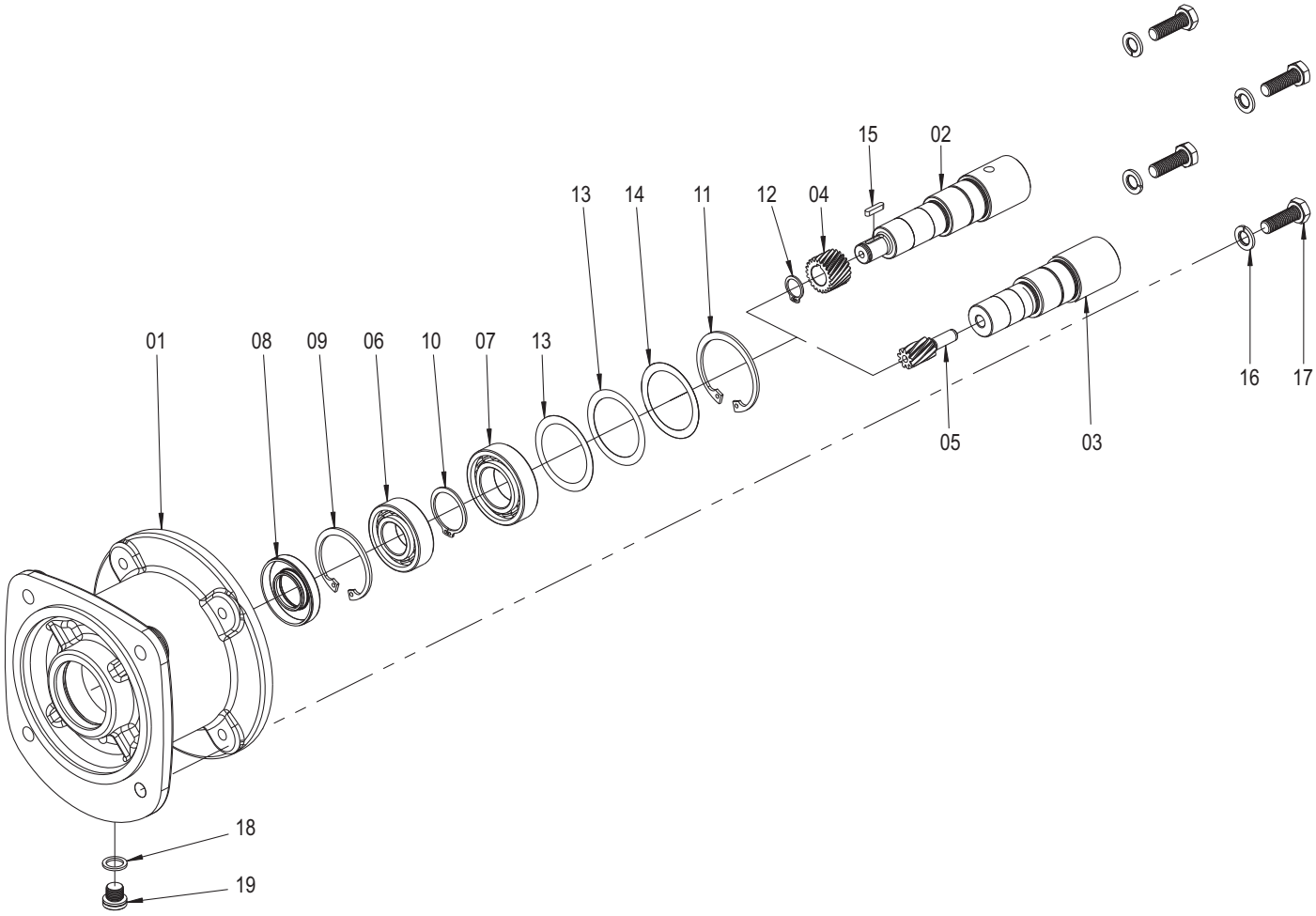
01	**PAM B14 Gövde**
02	**PAM B14 Mili (Çakma)**
03	**PAM B14 Mili (Yekpare Çakma)**
04	**Z1 Dişlisi (Yekpare Çakma)**
05	**Z1 Dişlisi (Çakma)**
06	**Rulman**
07	**Rulman**
08	**Yağ Keçesi**
09	**Segman**
10	**Segman**
11	**Segman**
12	**Layner**
13	**Layner**
14	**Kama**
15	**Yaylı Rondela**
16	**Civata**
17	**Tapa Rondelası**
18	**Yağ Tapası**

01	PAM Adapter B14
02	Input Shaft, Plain
03	Input Shaft, Gearcut
04	Z1 Pinion gearcut, plain
05	Z1 Pinion plain
06	Bearing
07	Bearing
08	Oil Seal
09	Circlip
10	Circlip
11	Circlip
12	Shim
13	Shim
14	Key
15	Spring Washer
16	Bolt
17	Washer
18	Drain Plug

TR GENEL PARÇA LİSTESİ

EN GENERAL PART LIST

PAM 63 ... 160 B5

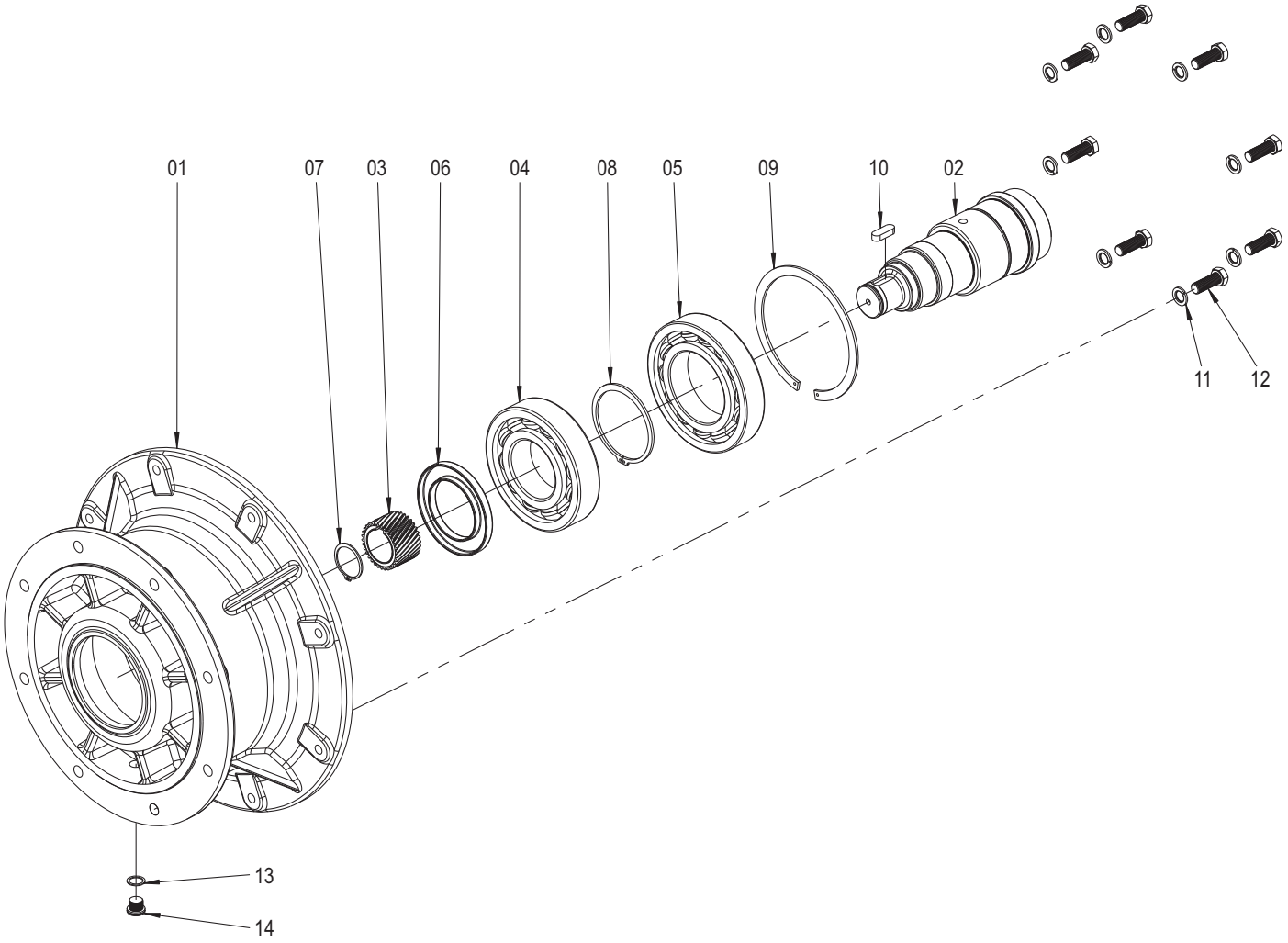


01	**PAM Gövde**	01	PAM Adapter
02	**PAM Mili (Çakma)**	02	Input Shaft, Plain
03	**PAM Mili (Yekpare Çakma)**	03	Input Shaft, Gearcut, Plain
04	**Z1 Dişlisi (Çakma)**	04	Z1 Pinion plain
05	**Z1 Dişlisi (Yekpare Çakma)**	05	Z1 Pinion gearcut, plain
06	**Rulman**	06	Bearing
07	**Rulman**	07	Bearing
08	**Yağ Keçesi**	08	Oil Seal
09	**Segman**	09	Circlip
10	**Segman**	10	Circlip
11	**Segman**	11	Circlip
12	**Segman**	12	Circlip
13	**Layner**	13	Shim
14	**Layner**	14	Shim
15	**Kama**	15	Key
16	**Yaylı Rondela**	16	Spring Washer
17	**Civata**	17	Bolt
18	**Tapa Rondelası**	18	Washer
19	**Yağ Tapası**	19	Oil Plug

TR GENEL PARÇA LİSTESİ

EN GENERAL PART LIST

PAM 132 ... 280 B5

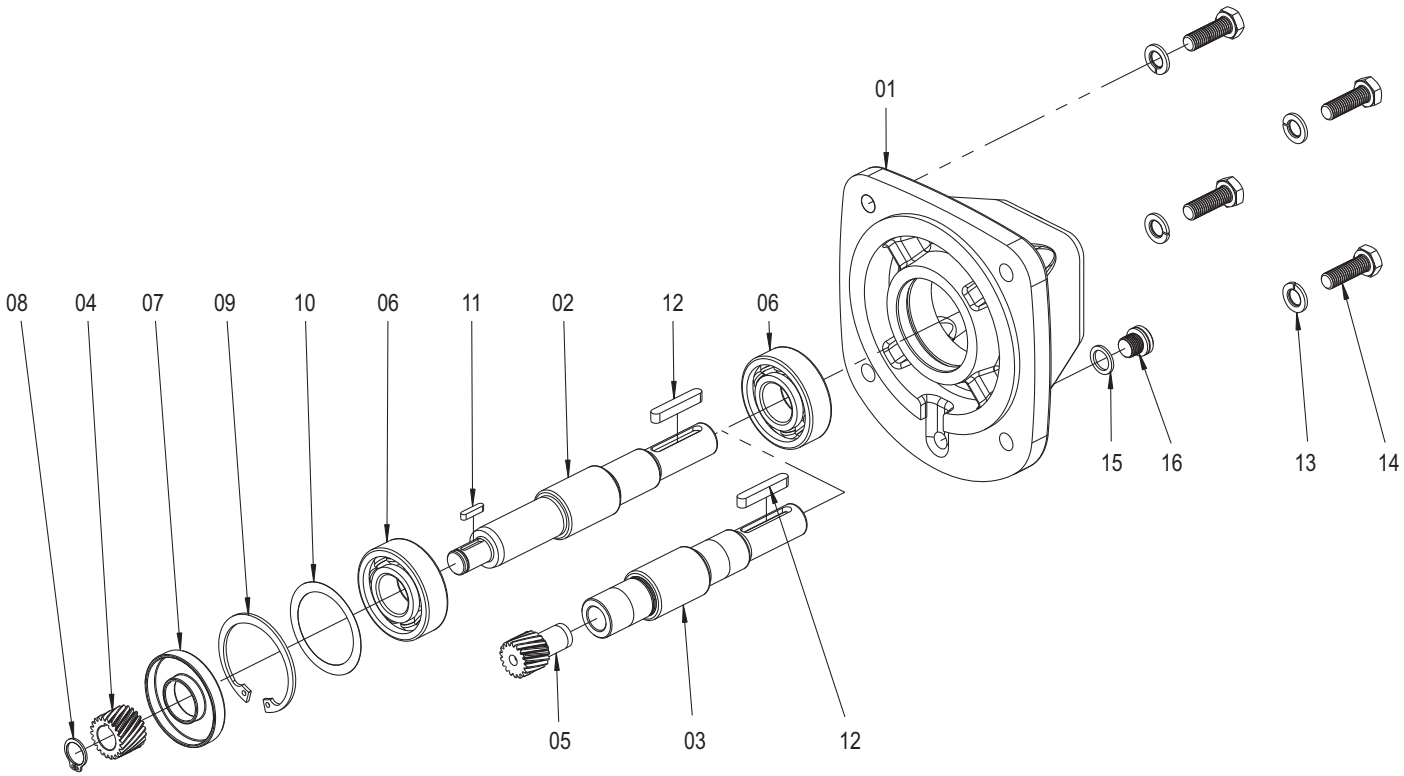


01	**PAM Gövde**	01	PAM Adapter
02	**PAM Mili (Çakma)**	02	Input Shaft, Plain
03	**Z1 Dişlisi**	03	Z1 Pinion
04	**Rulman**	04	Bearing
05	**Rulman**	05	Bearing
06	**Yağ Keçesi**	06	Oil Seal
07	**Segman**	07	Circlip
08	**Segman**	08	Circlip
09	**Segman**	09	Circlip
10	**Kama**	10	Key
11	**Yaylı Rondela**	11	Spring Washer
12	**Civata**	12	Bolt
13	**Tapa Rondelası**	13	Washer
14	**Yağ Tapası**	14	Drain Plug

TR GENEL PARÇA LİSTESİ

EN GENERAL PART LIST

W 122 ... 213



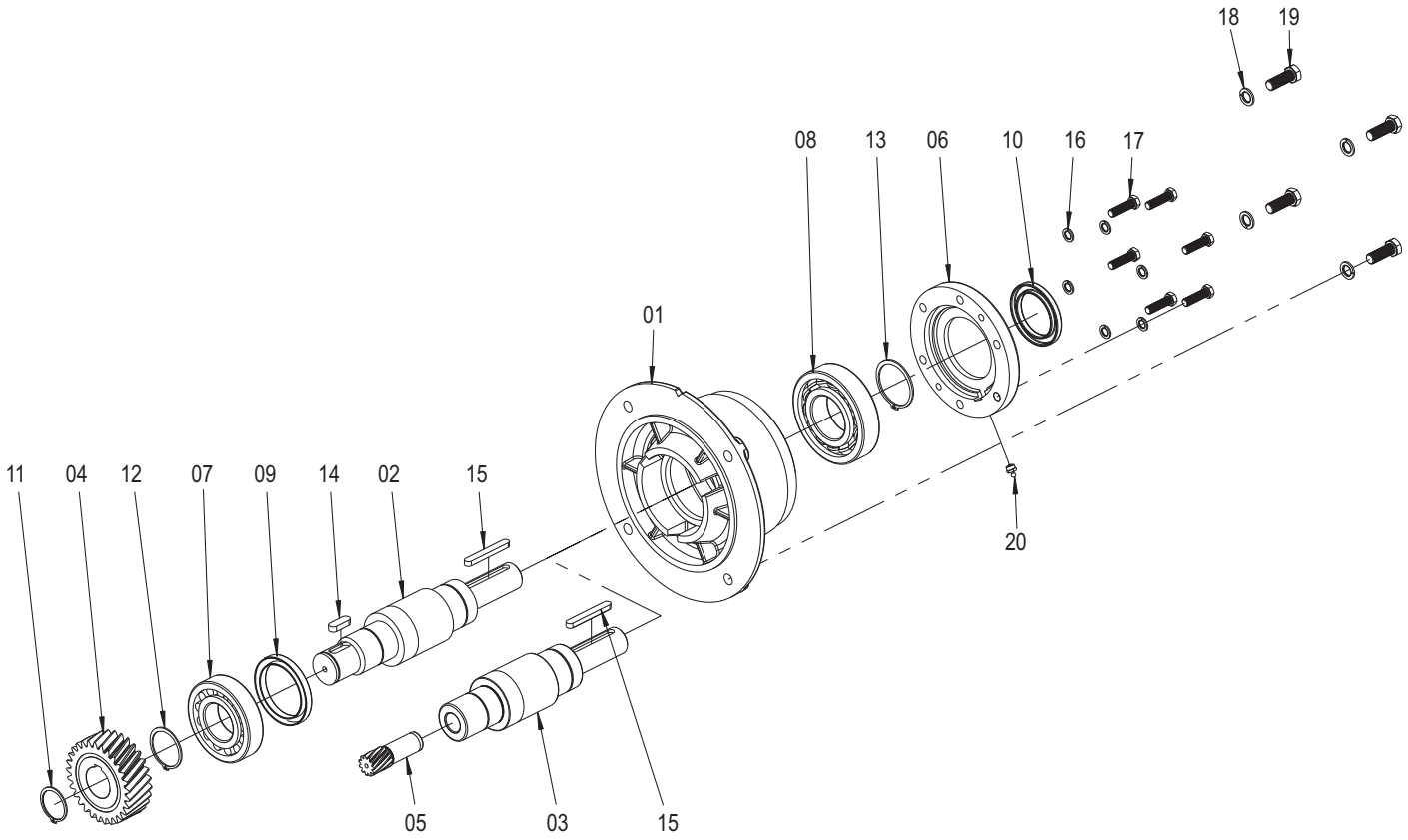
01	**W Gövde**
02	**W Mili (Çakma)**
03	**W Mili (Yekpare Çakma)**
04	**Z1 Dişlisi (Çakma)**
05	**Z1 Dişlisi (Yekpare Çakma)**
06	**Rulman**
07	**Yağ Keçesi**
08	**Segman**
09	**Segman**
10	**Layner**
11	**Kama**
12	**Kama**
13	**Yaylı Rondela**
14	**Civata**
15	**Tapa Rondelası**
16	**Yağ Tapası**

01	W Adapter
02	Input Shaft, Plain
03	Input Shaft, Gearcut, Plain
04	Z1 Pinion plain
05	Z1 Pinion gearcut, plain
06	Bearing
07	Oil Seal
08	Circlip
09	Circlip
10	Shim
11	Key
12	Key
13	Spring Washer
14	Bolt
15	Washer
16	Drain Plug

TR GENEL PARÇA LİSTESİ

EN GENERAL PART LIST

W 288 ... 397



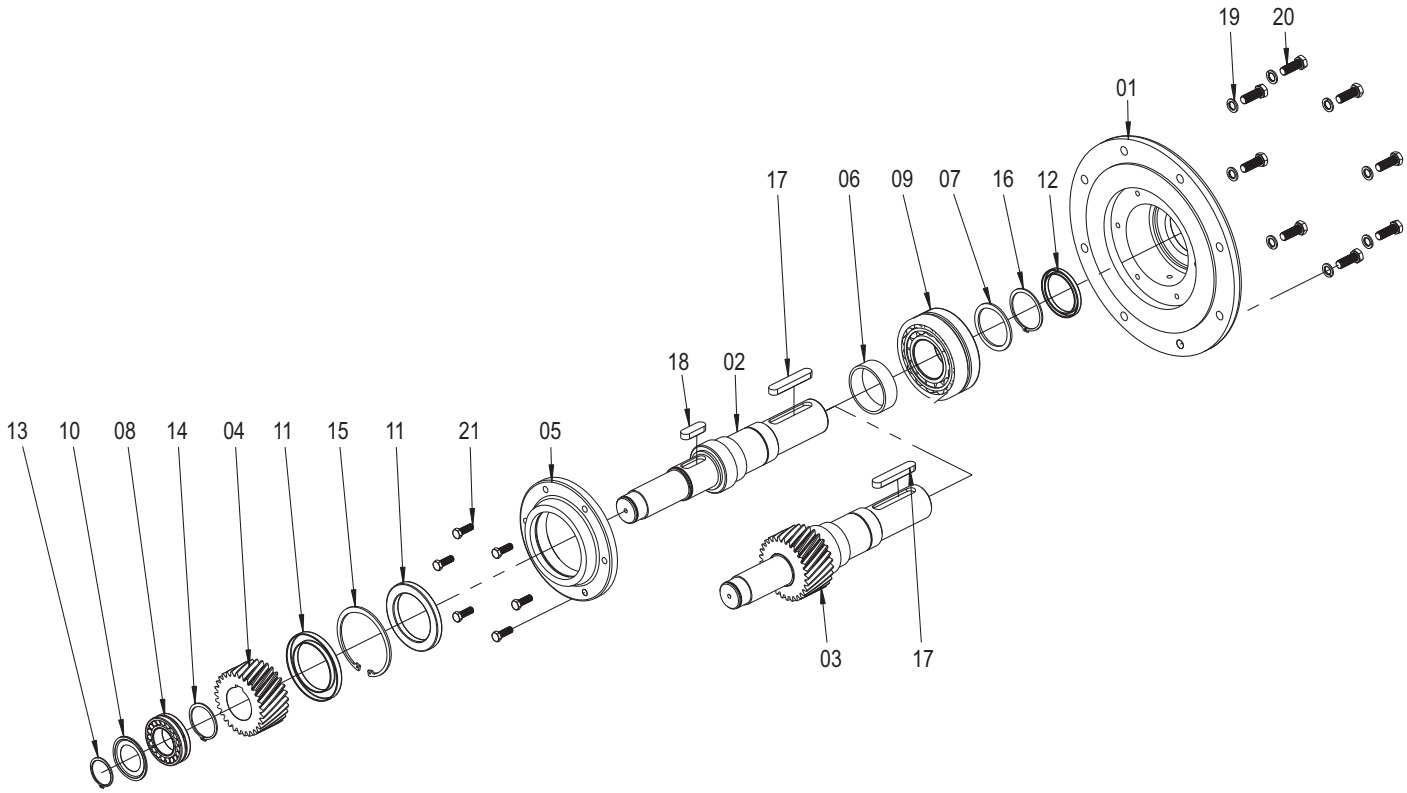
01	**W Gövde**
02	**W Mili (Çakma)**
03	**W Mili (Yekpare Çakma)**
04	**Z1 Dişlisi Çakma)**
05	**Z1 Dişlisi (Yekpare Çakma)**
06	**Rulman Flanşı**
07	**Rulman**
08	**Rulman**
09	**Yağ Keçesi**
10	**Yağ Keçesi**
11	**Segman**
12	**Segman**
13	**Segman**
14	**Kama**
15	**Kama**
16	**Yaylı Rondela**
17	**Civata**
18	**Yaylı Rondela**
19	**Civata**
20	**Gresörlük**

01	W Adapter
02	Input Shaft, Plain
03	Input Shaft, Gearcut, Plain
04	Z1 Pinion plain
05	Z1 Pinion gearcut, plain
06	Bearing sleve
07	Bearing
08	Bearing
09	Oil Seal
10	Oil Seal
11	Circlip
12	Circlip
13	Circlip
14	Key
15	Key
16	Spring Washer
17	Bolt
18	Spring Washer
19	Bolt
20	Grease nipple

TR GENEL PARÇA LİSTESİ

EN GENERAL PART LIST

W 253 (G9390)



01	**W Gövde**	01	W Adapter
02	**W Mili (Çakma)**	02	Input Shaft, Plain
03	**W Z1 Mili (Yekpare)**	03	Input Shaft, Gearcut
04	**Z1 Dişlisi (Çakma)**	04	Z1 Pinion plain
05	**Keçe Flanşı**	05	Bearing sleeve
06	**W Bagası**	06	Spacer
07	**Rondela**	07	Washer
08	**Rulman**	08	Bearing
09	**Rulman**	09	Bearing
10	**Nilosring**	10	Nilosring
11	**Yağ Keçesi**	11	Oil Seal
12	**Yağ Keçesi**	12	Oil Seal
13	**Segman**	13	Circlip
14	**Segman**	14	Circlip
15	**Segman**	15	Circlip
16	**Segman**	16	Circlip
17	**Kama**	17	Key
18	**Kama**	18	Key
19	**Yaylı Rondela**	19	Spring Washer
20	**Civata**	20	Bolt
21	**Civata**	21	Bolt

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 Breakdown 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

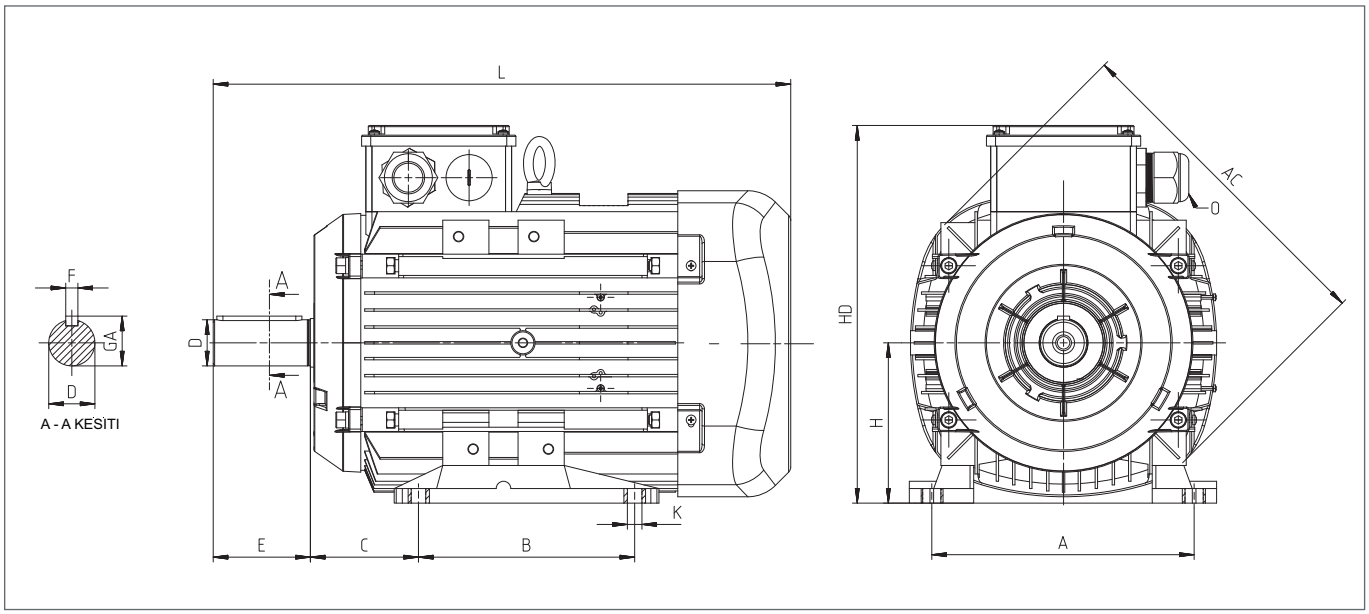
ELEKTRİKSEL ÖZELLİKLER - 50 Hz / ELECTRICAL CHARACTERISTICS AT 50 Hz

	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	kgm²	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

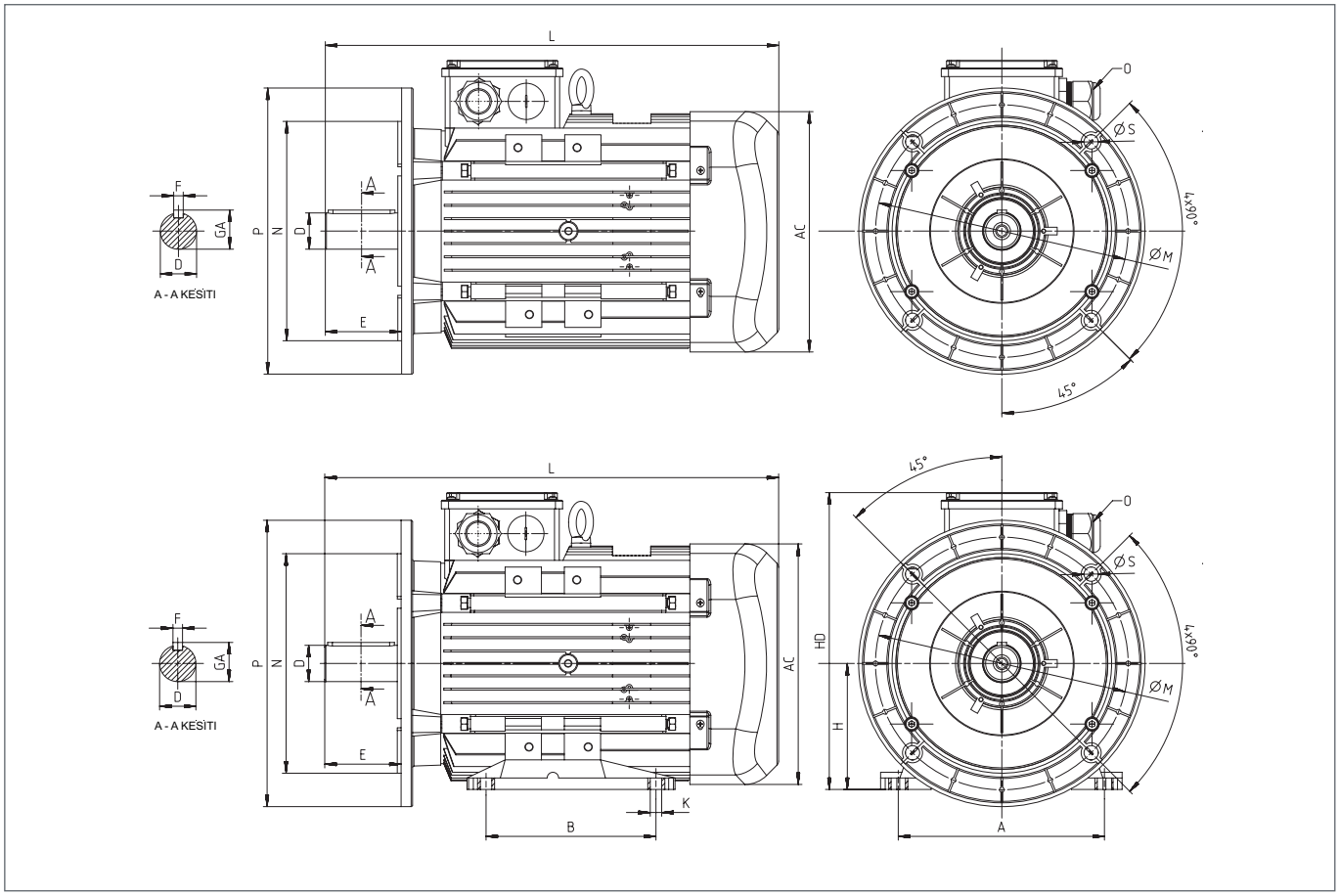
BOYUTLAR / DIMENSIONS - B3

				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

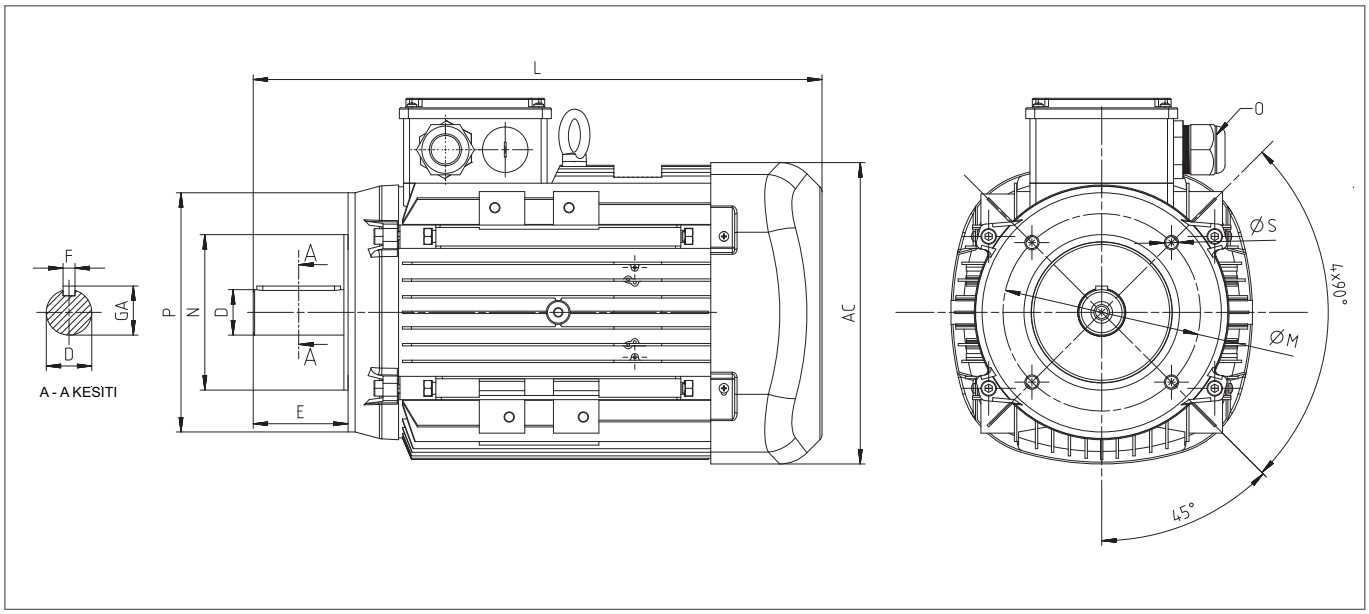
BOYUTLAR / DIMENSIONS - B5, B35

				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

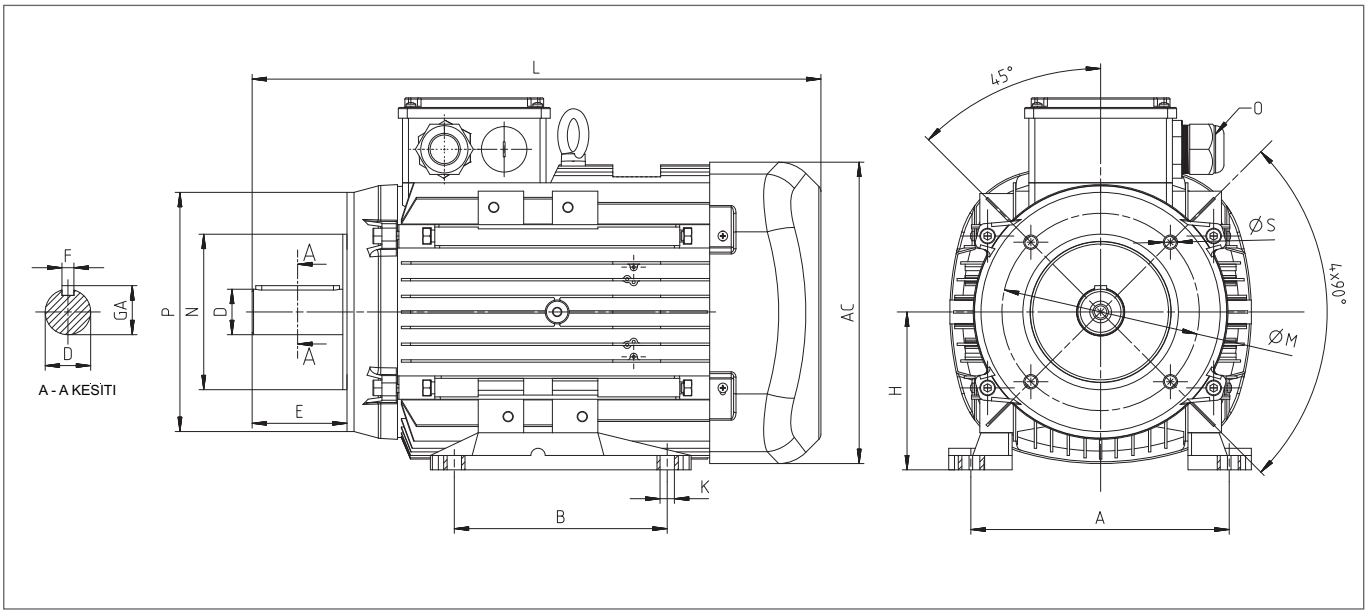


				Ana Boyutlar Main Dimesions			Ayaklı Motorlar Foot Mounted Motors					Mil / Shaft				Rulman / Bearing		Keçe / Seal		Flanş / Flange (FC) (B14a)				
Güç Power (kW)	Kutup Sayısı Number of Poles	Motor Tipi Motor Type	Gövde Tipi Housing Type	AC	L	O	B	A	H	HD	K	D (1)	E	GA	F (2)	Kasnak Tarafı Drive Side	Kasnak 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					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	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**

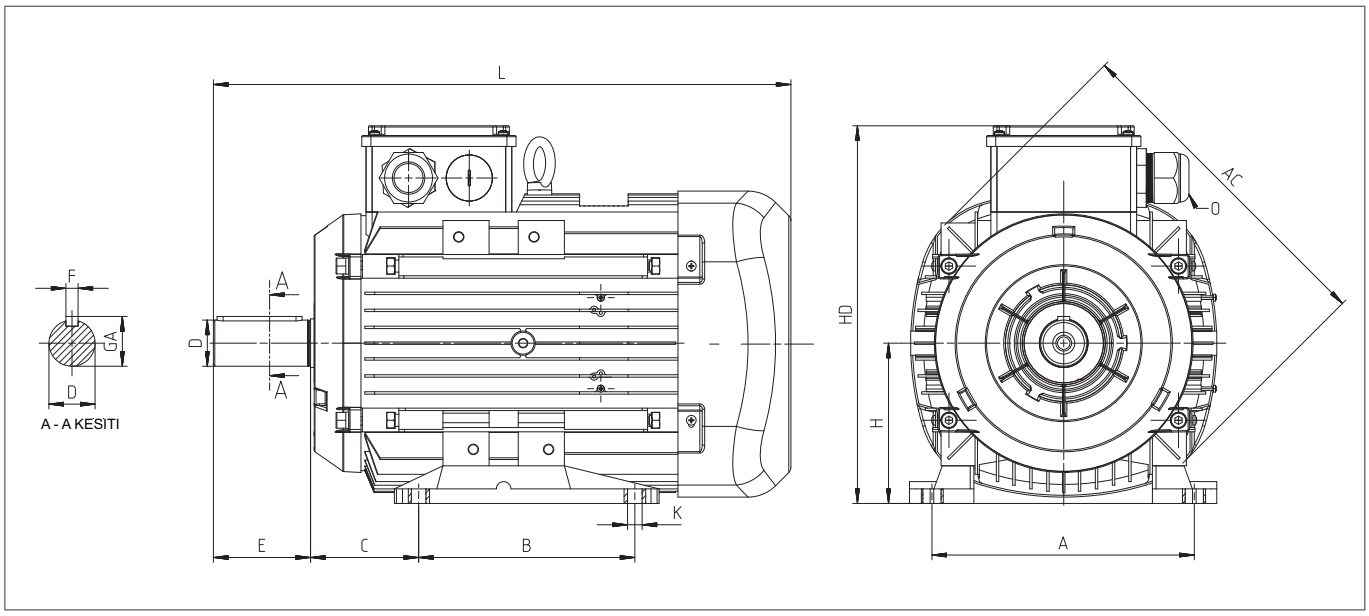
ELEKTRİKSEL ÖZELLİKLER - 50 Hz / ELECTRICAL CHARACTERISTICS AT 50 Hz

	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

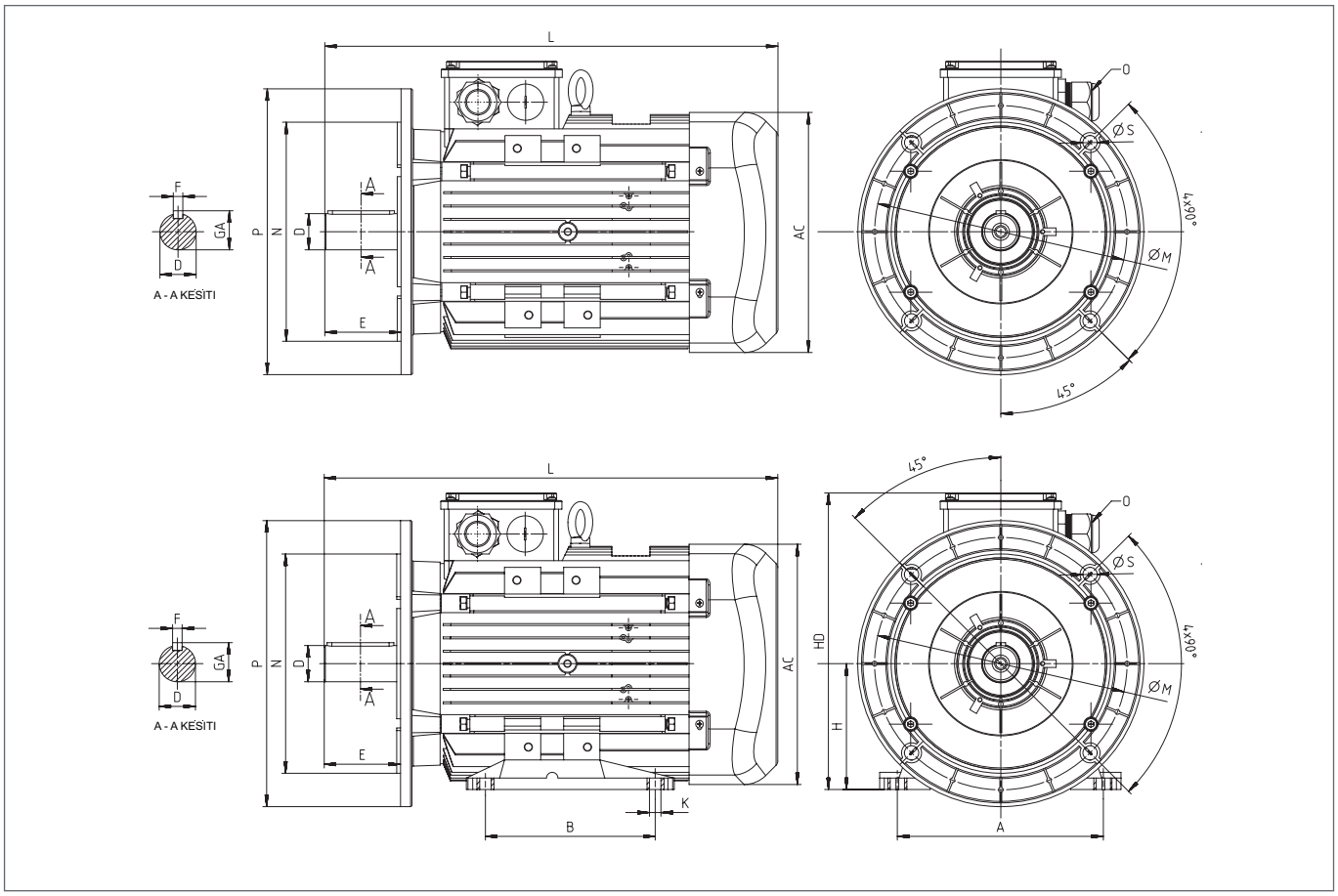
BOYUTLAR / DIMENSIONS - B3

				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

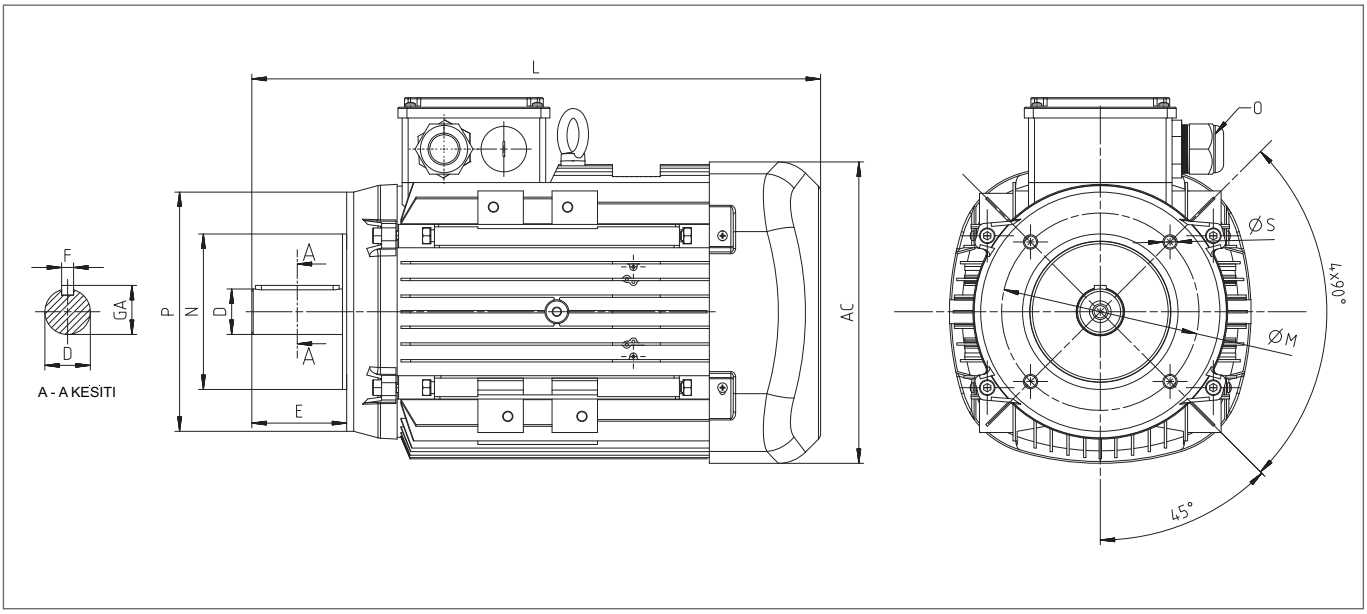
BOYUTLAR / DIMENSIONS - B5, B35

				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

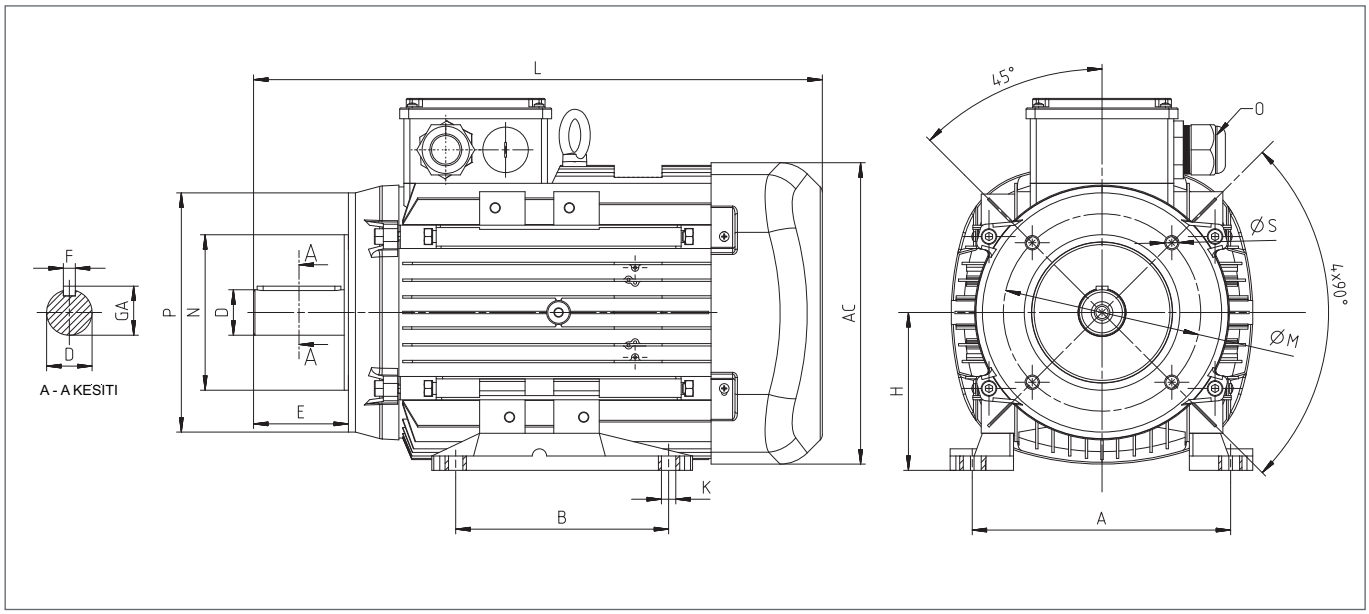
BOYUTLAR / DIMENSIONS - B14a, B34a

				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

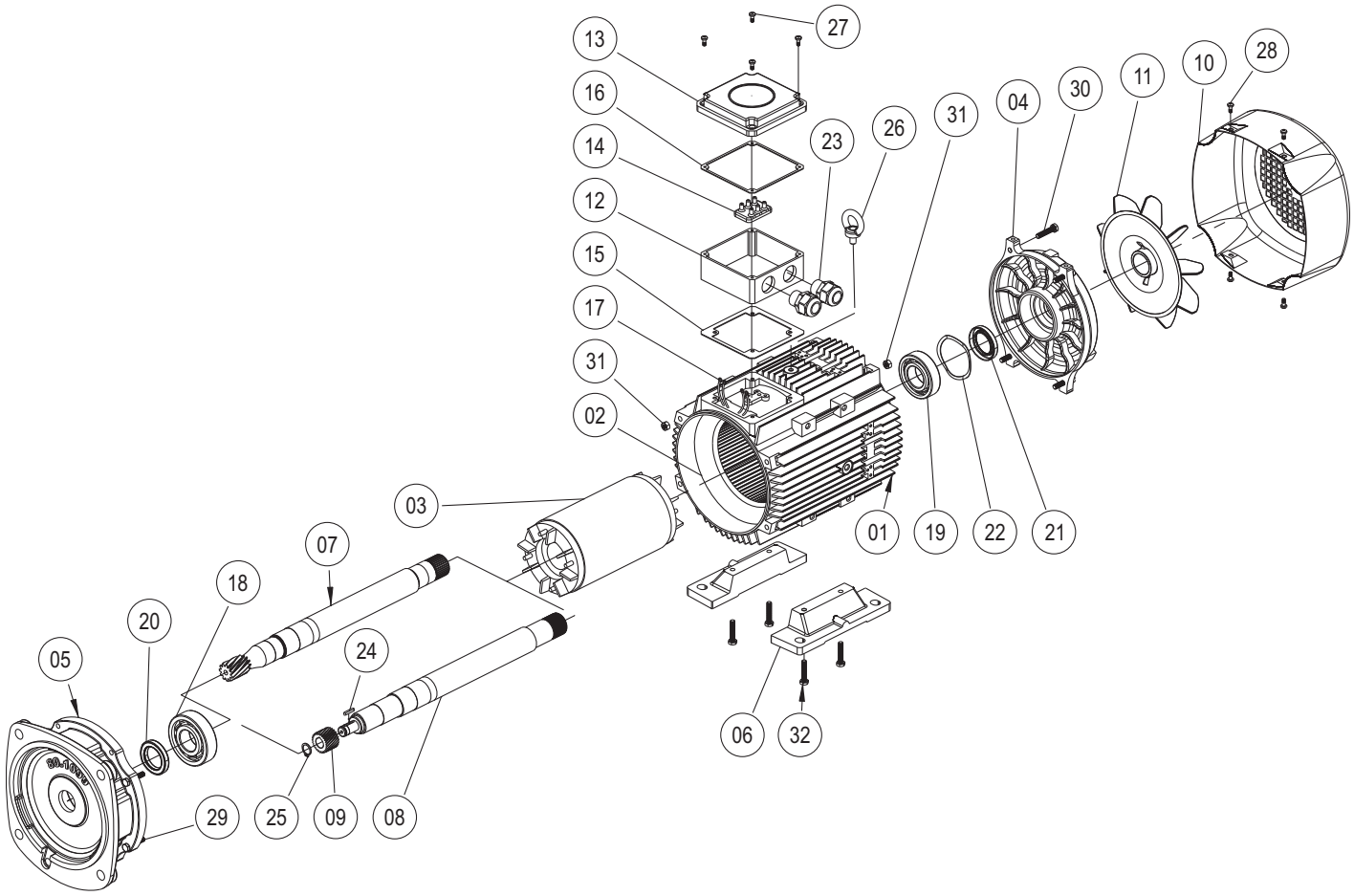
BOYUTLAR / DIMENSIONS - B14b, B34b

				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"

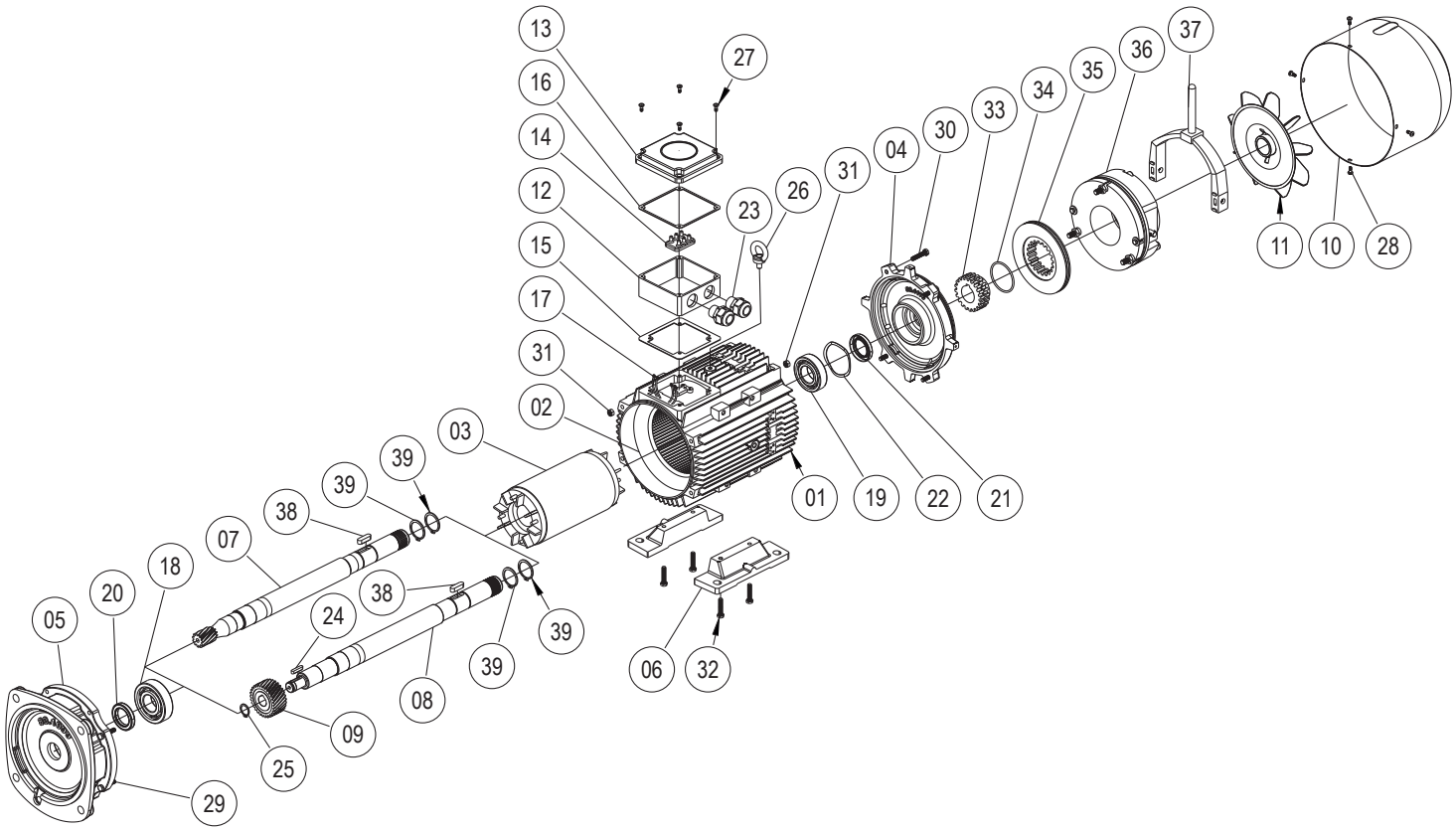
(1) Tolerance DIN EN 50347 "j6" up to 28 mm "k6" above 28 mm
(2) According to DIN 6885
(3) Tolerance DIN EN 50347 "j6"

MOTOR PARÇA LİSTESİ / MOTOR PART LIST



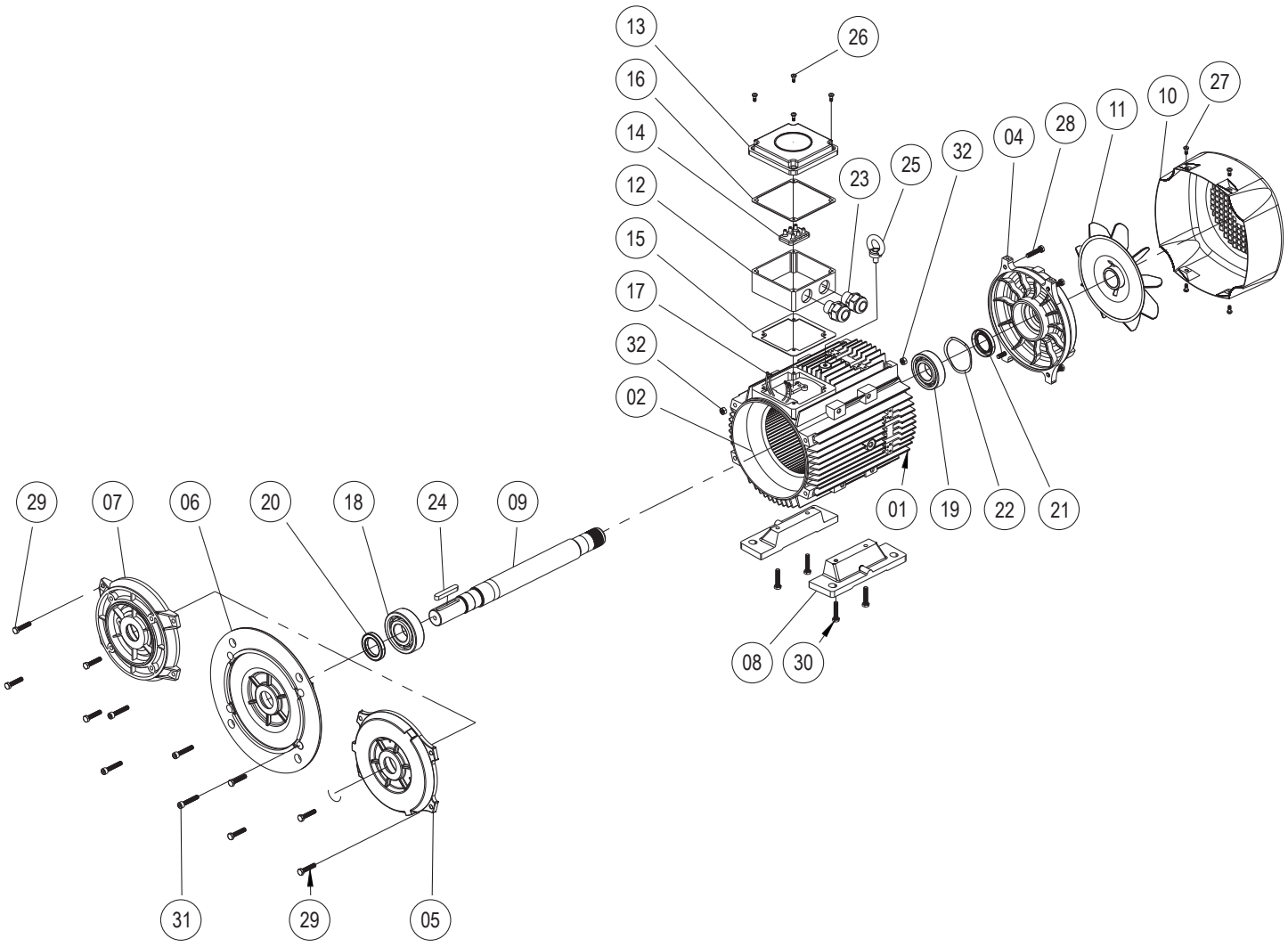
01	**Gövde**	01	Housing	**17**	**Kablo Grubu**	17	Lead Cables
02	**Sargılı Stator**	02	Wound Stator	**18**	**Ön Rulman**	18	Bal Bearing (Drive-Side)
03	**Rotor**	03	Rotor	**19**	**Arka Rulman**	19	Bal Bearing (Non-Drive-Side)
04	**Motor Arka Kapağı**	04	Nondrive - Endshield	**20**	**Keçe (Ön)**	20	Seal 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



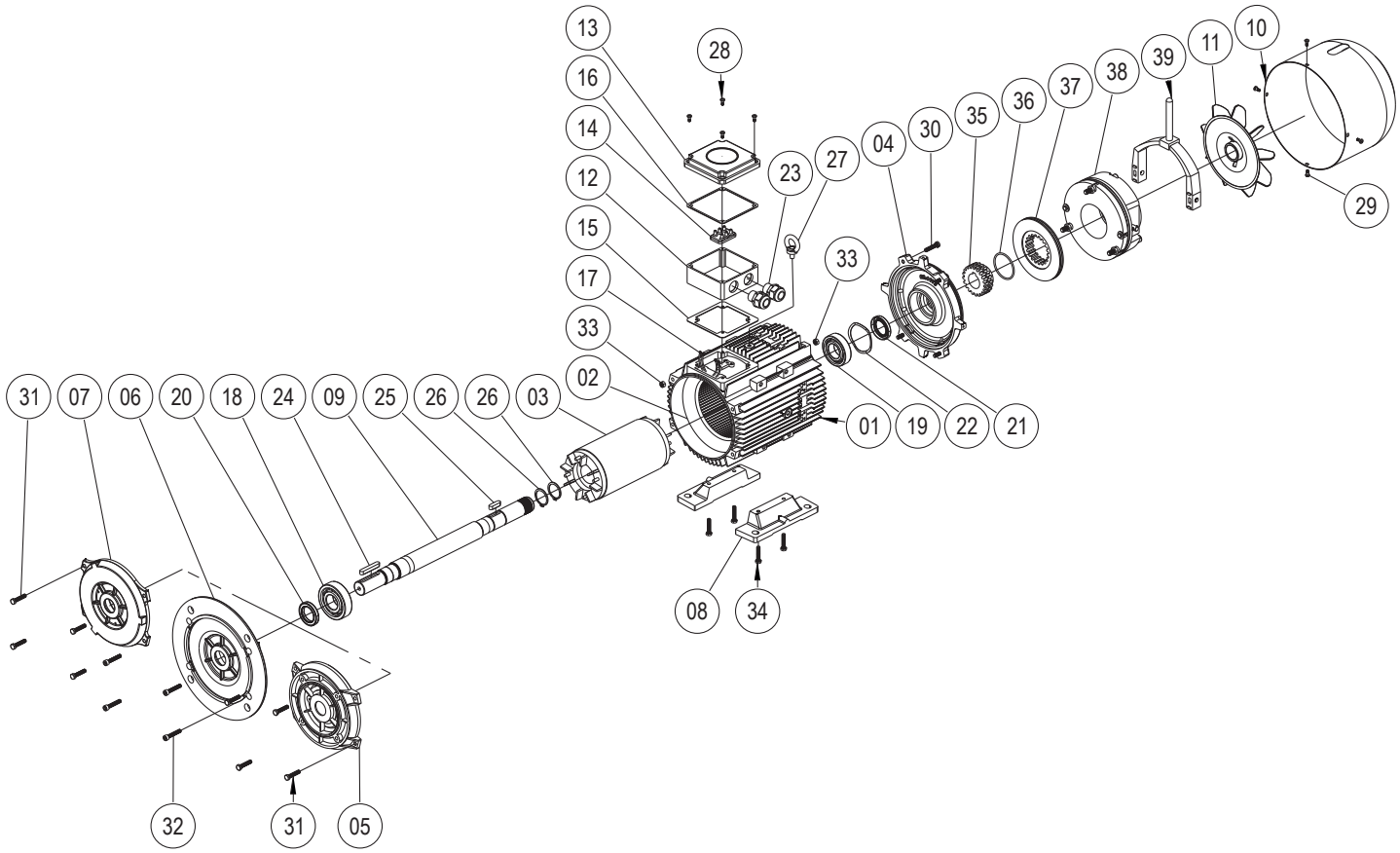
01	**Gövde**	01	Housing
02	**Sargılı Stator**	02	Wound Stator
03	**Rotor**	03	Rotor
04	**Fren Flanşı**	04	Brake Connection Flange
05	**PGR Motor Bağlantı Flanşı**	05	Motor Connection Flange
06	**Ayak**	06	Foot
07	**Motor Mili (Yekpare)**	07	Drive Shaft (Gearcut)
08	**Motor Mili (Çakma)**	08	Drive Shaft (Plain)
09	**Z1 Dişlisi**	09	Z1 Gear
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	**Segman**	25	Circilip DIN 471
26	**Mapa**	26	Eye Bolt
27	**Yıldız Başlı Civata**	27	Pan Head Secrews
28	**Yıldız Başlı Civata**	28	Pan Head Secrews
29	**Civata DIN 933**	29	Bolt
30	**Civata DIN 933**	30	Bolt
31	**Somun**	31	Nut
32	**Civata DIN 933**	32	Bolt
33	**Fren Kaplini / Coupling**	33	Coupling
34	**O-Ring / O-Ring**	34	O-Ring
35	**Fren Balatası / Break Lining**	35	Brake Lining
36	**Fren / Break**	36	Brake
37	**Manuel Kolu / Hand Release**	37	Hand Release
38	**Kama / Key**	38	Key
39	**Segman / Circilip DIN 471**	39	Circilip DIN 471

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



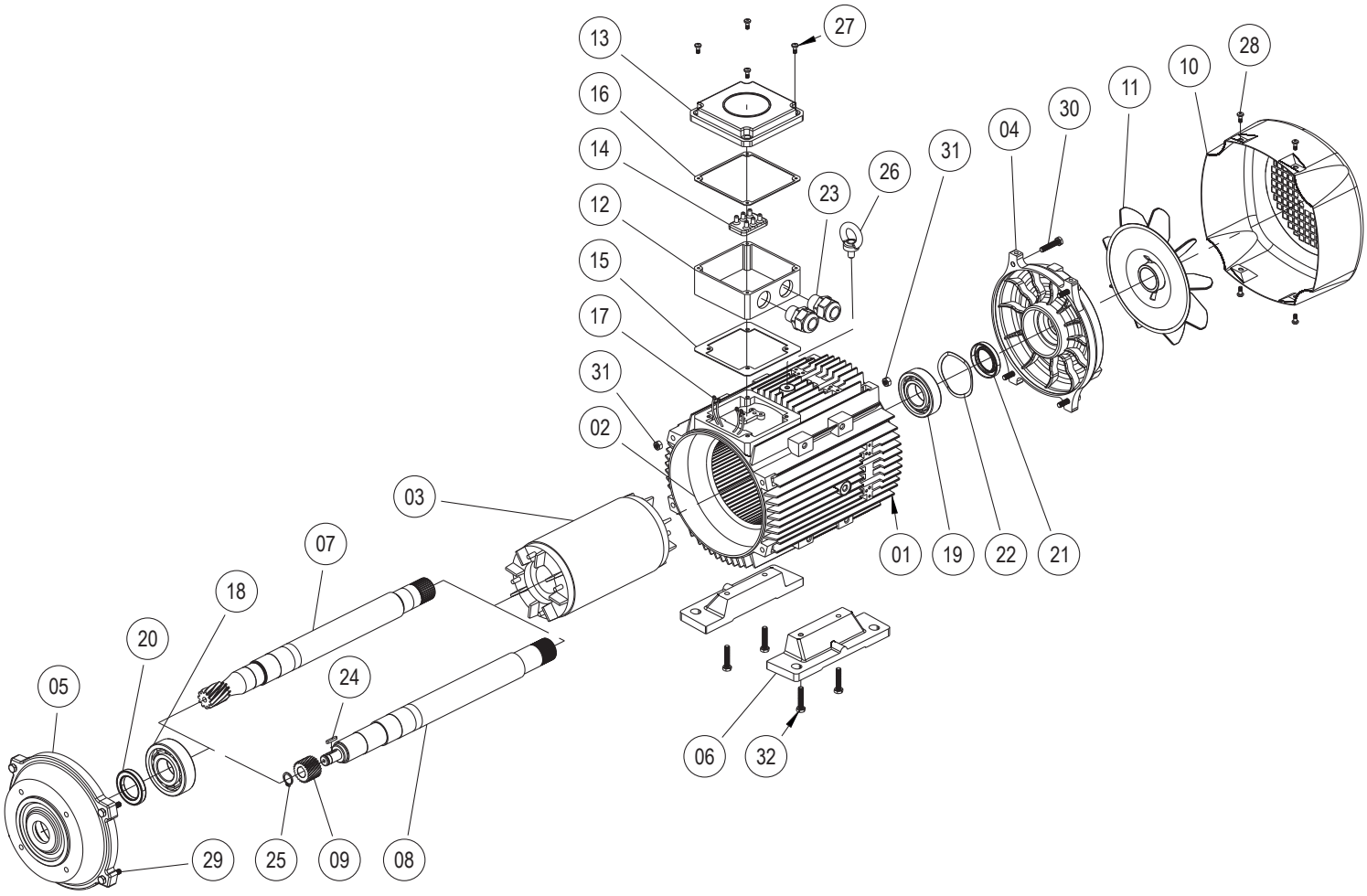
01	**Gövde**	01	Housing
02	**Sargılı Stator**	02	Wound Stator
03	**Rotor**	03	Rotor
04	**Motor Arka Kapağı**	04	Nondrive - Endshield
05	**B3 Motor Bağlantı Flanşı**	05	Flange
06	**B5 Motor Bağlantı Flanşı**	06	Flange
07	**B14 Motor Bağlantı Flanşı**	07	Flange
08	**Ayak**	08	Foot
09	**Motor Mili (Standart)**	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



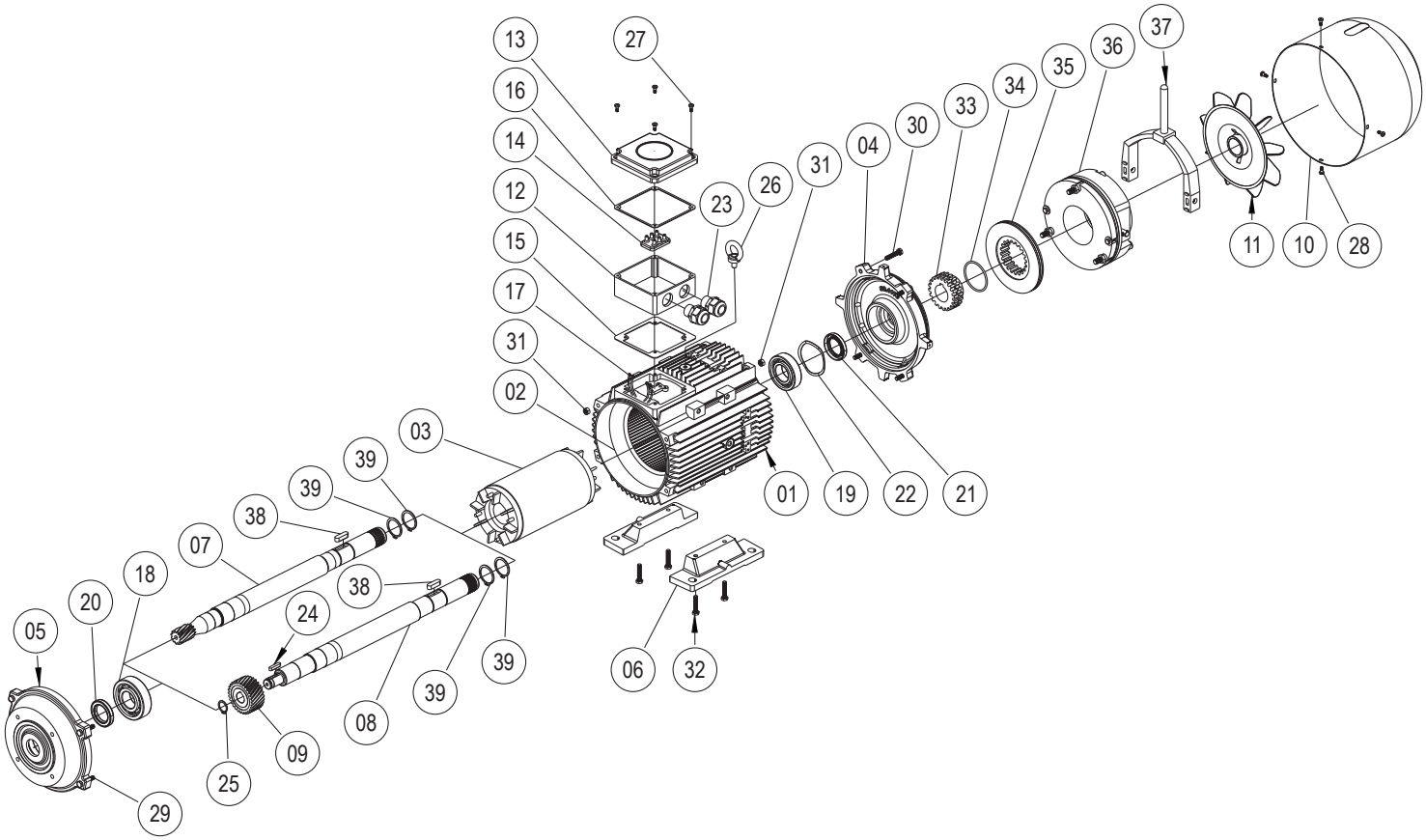
01	**Gövde**	01	Housing
02	**Sargılı Stator**	02	Wound Stator
03	**Rotor**	03	Rotor
04	**Fren Flanşı**	04	Brake Connection Flange
05	**B3 Motor Bağlantı Flanşı**	05	Flange
06	**B5 Motor Bağlantı Flanşı**	06	Flange
07	**B14 Motor Bağlantı Flanşı**	07	Flange
08	**Ayak**	08	Foot
09	**Motor Mili (Standart)**	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

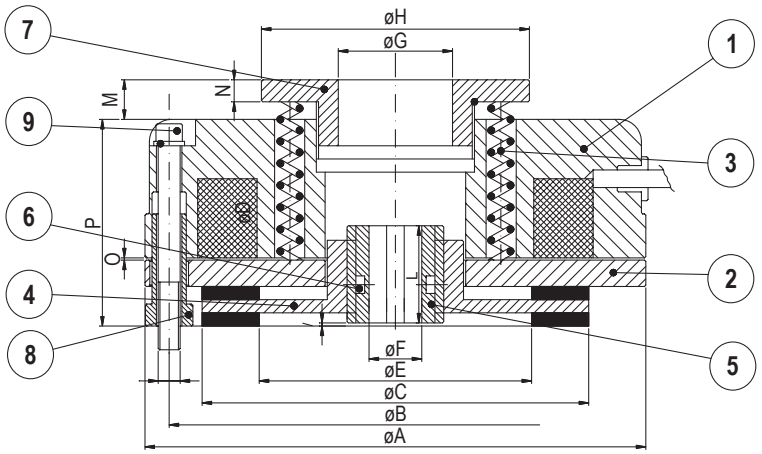


01	**Gövde**	01	Housing	**21**	**Keçe (Arka)**	21	Seal Ring (Back)
02	**Sargılı Stator**	02	Wound Stator	**22**	**Rulman Gergi Yayı**	22	Bearing Shim
03	**Rotor**	03	Rotor	**23**	**Rakor**	23	Conduit
04	**Fren Flanşı**	04	Brake Connection Flange	**24**	**Kama**	24	Key
05	**PGR Motor Bağlantı Flanşı**	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

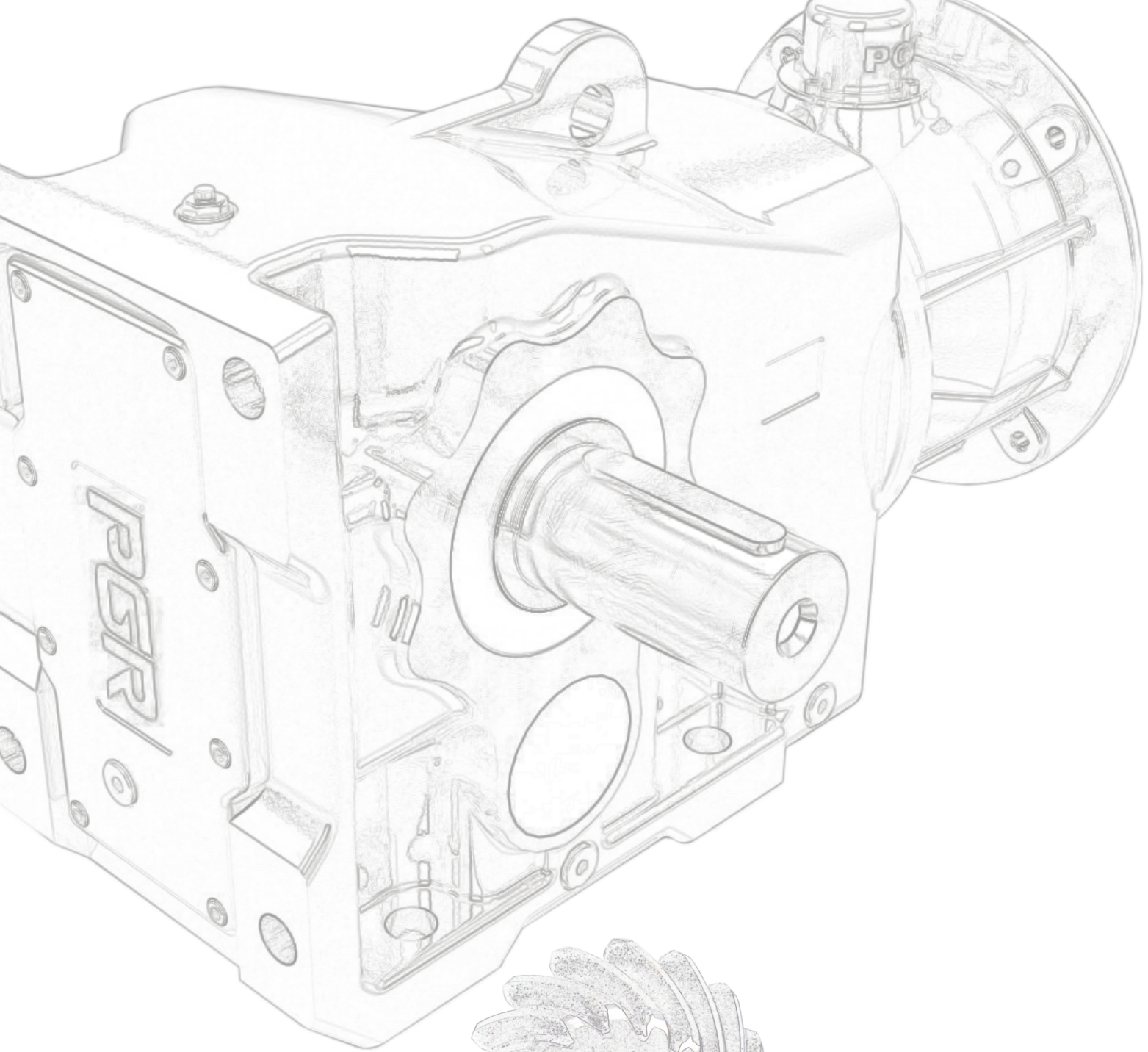
1 Elektro mıknatıs	**1** Electromagnet
2 Endüvi plakası	**2** Armature plate
3 Tork yayı	**3** Torque springs
4 Disk	**4** Disc
5 Kamalı burç	**5** Splined hub
6 O-ring	**6** O-ring
7 Ayar halkası	**7** Adjuster rings
8 Ayar somunu	**8** Adjuster nuts
9 Bağlantı cıvataları	**9** Fixing screws

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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Ata Mahallesi Astim Organize Sanayi Bölgesi 1.Cadde No: 4 Efeler - AYDIN / TÜRKİYE
Tel: +90 256 231 19 12 (Pbx) Fax: +90 256 231 19 17
info@pgr.com.tr - www.pgr.com.tr

POLATGROUP