



PKD SERIES

Helisel Konik Dişli Redüktör
Helical Bevel Gear Units
Kegelstirnradtriebemotoren

IE2 | IE3



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PGR[®]
DRIVE TECHNOLOGIES



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TR

KALİTE POLİTİKAMIZ

Polat Group Redüktör San. ve Tic. A.Ş., en iyiyi yakalamak için; İş Sağlığı ve Güvenliği, Çevre Güvenliği ve Kalite Yönetim Sistemi uygulamalarını, Üretim ve Hizmet sürecinin vazgeçilmez bir unsuru olarak değerlendirmekte ve uygulamaktadır.

Bu doğrultuda;

- Yayınlanmış ulusal/uluslararası yasal şartlar ve diğer şartlara uymak ve güncelliğini takip etmeyi;
- Atıkları kaynağında azaltmak ve teknolojik imkanlar ile çevre etkilerini kontrol altında tutmayı;
- Bünyemizde uygulanan yönetim sistemlerinin performansının değerlendirmek ve sürekli iyileştirmeyi;
- Eğitimlerle çalışanlarımızı çevre, iş sağlığı ve güvenliği ve Kalite yönetim sistemleri konusunda bilinçlendirmeyi;
- Çalışan sağlığının ve çevrenin korunması için çalışmalarını güncel tutmayı;
- Sektöründeki teknolojik gelişmeleri takip etmeyi, pazar payındaki istikrarını sürdürmek için müşterilerinin istek ve beklentilerine eksiksiz ve zamanında cevap vererek sürekli artan müşteri memnuniyetini sağlamayı, eğitimli çalışanlarının performansını, huzurlu bir çalışma ortamı sağlayarak artırmayı;

Şirket politikası olarak benimsemiştir.

VİZYONUMUZ

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

MİSYONUMUZ

Müşterilerimizin ihtiyaçlarını karşılayacak çözümleri bilgi teknolojilerini kullanarak en verimli ve kaliteli şekilde sunmaktır.

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

Polat Group Redüktör San. ve Tic. A.Ş., considers and applies Occupational Health and Safety, Environmental Safety and Quality Management System as the inseparable part of Production and Service process.

In line with this, our company adopts:

- Complying with published national/international legal provisions and other conditions and following up-to-datedness thereof;
- Reducing wastes in resources and keeping environmental impacts under control with technological opportunities;
- Assessing and constantly improving performance of management systems applied within our company;
- Raising awareness of our employees about occupational health and safety and quality management systems through trainings;
- Keeping our activities up-to-dated to protect personnel health and environmental protection;
- Following technological developments in the sector, ensuring ever-increasing customer satisfaction by responding to requests and expectations of customers completely and duly to sustain stability in the market share and increasing performance of trained employees by providing a peaceful working environment;

as the company policy.

OUR VISION

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

OUR MISSION

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

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

DE

UNSERE QUALITÄTSPOLITIK

Polat Group Redüktör San. ve Tic. A.Ş., um an das Beste zu gelangen; es bewertet und implementiert die Praktiken des Arbeitsschutz-, Umweltsicherheits- und Qualitätsmanagementsystems als unverzichtbares Element des Produktions- und Serviceprozesses.

In diese Richtung;

- Einhaltung und Befolgung der aktualisierten nationalen / internationalen gesetzlichen und sonstigen Anforderungen;
- Abfall an seiner Quelle zu reduzieren und technologische Möglichkeiten und Umweltauswirkungen unter Kontrolle zu halten;
- Bewertung und kontinuierliche Verbesserung der Leistung der in unserer Struktur implementierten Managementsysteme;
- Sensibilisierung unserer Mitarbeiter für Umwelt-, Arbeitsschutz- und Qualitätsmanagementsysteme durch Schulungen;
- Um unsere Arbeit zum Schutz der Gesundheit und der Umwelt der Mitarbeiter auf dem neuesten Stand zu halten;
- Verfolgung der technologischen Entwicklungen in der Branche, Gewährleistung der stetig steigenden Kundenzufriedenheit durch vollständige und pünktliche Reaktion auf die Anforderungen und Erwartungen ihrer Kunden, um ihre Marktanteilstabilität zu erhalten, Steigerung der Leistung ihrer geschulten Mitarbeiter durch Schaffung eines friedlichen Arbeitsumfelds;

hat sie als Unternehmenspolitik übernommen.

UNSERE VISION

Unsere Vision ist ein Weltunternehmen zu erschaffen, das die Kunden - und Mitarbeiterzufriedenheit ständig im höchsten Zustand haltet und die Entwicklungen nicht nur verfolgt, sondern auch gestaltet.

UNSER ZIEL

Unser Ziel ist unseren Kunden die Produkte, Qualitäts- und Dienstleistungen sowie Lösungen, die die Kundenerwartungen übertreffen und im besten und leistungsfähigsten Zustand mit Hilfe der neuesten Informationstechnologien zu bieten.

Polat Group Redüktör GmbH führt sämtliche Tätigkeiten des Ingenieurwesens gleichzeitig weiter, um die Kundenerwartungen an alle unsere Produkte aus verschiedenen Produktpaletten im höchsten Zustand zu übertreffen. Unsere Entwurfstätigkeiten und Produktentwicklungsprogramme und EDV unterstützten Arbeitsprozesse zeigen eine steigende Grafik. Unsere wettbewerbsfähige und kräftige Qualitätspolitik vergrößert unseren Kundenumfang weiter.

Redüktör Seçimi

Bir redüktör seçilirken, PGR üç fazlı asenkron AC motorları ve tek fazlı AC motorları kullanıldığını öngörür. Bu aynı zamanda teknik olarak karşılaştırılabilen tüm motorlar için de geçerlidir. Herhangi başka bir motor kullanımı halinde PGR'ye danışınız. Dişli ünitesinin seçimi yapılırken aşağıda belirtilen ana esaslara bağlı kalınmaz ise ünite istenmeyen aşırı yüklenme durumları açığa çıkabilir. Bu durumda tarafımızdan verilen tüm garantiler kapsam dışına çıkar. Kullanılacak redüktörden yüksek verim alabilmenin ilk adımı size uygun olan doğru ürünü seçebilmektir.

Redüktör seçimi yapılırken aşağıdaki kritik hususlara dikkat edilmelidir. Bunlar Mekanik kontrol, termal limit kontrolü, redüktör mili üzerine gelebilecek radyal ve eksenel yük kontrolleri ve servis faktörü kontrolüdür.

Hangi redüktörün sizin makinanız için uygun olduğuna, makinanızın çalışma şartlarına göre gerekli giriş gücü, istenilen tahvil oranı ve servis faktörü değerlerinin belirlenmesinden sonra karar verilmelidir. Optimum çalışma şartları sağlanacak redüktördeki aşırı yüklenmeden kaynaklı tüm problemlerin oluşması engellenmelidir.

Seçim yapılırken dikkat edilmesi gereken önemli unsurlardan biri de kullanılan harici yedek parçalar, giriş ve çıkış aksesuarlarıdır. PGR'nin önerdiği ürünler haricinde ekipman kullanımı veya redüktörün zarar görebileceği şüpheli durumlarda PGR satış departmanı ile irtibata geçilmeli, teknik veriler ve tasarım tekrar kontrol edilmelidir.

Firmadan habersiz yapılan uygulama ve yanlış seçimler sonucunda redüktör ile ilgili yaşanan problemlerde tarafımızdan verilen tüm garantiler kapsam dışına çıkar.

Redüktör Seçim Kriterleri

1.Mekanik kontrol:

İlk olarak makinanızın çalışma şartlarının bilinmesi gerekir. Bunlar günlük çalışma süresi, saatteki start-stop sayısı ve makineden gelecek yükün hangi yük sınıfı içerisinde olduğunun belirlenmesidir.

Yük sınıfı ise motor miline indirgenmiş toplam dış atalet momentinin, motor atalet momentine oranından elde edilen sayıya (maf) göre belirlenir. $maf \leq 0.25$ ise düzgün çalışma yük sınıfı (U), $0.25 < maf \leq 3$ ise orta darbeli yük sınıfı (M) ve $3 < maf \leq 10$ ise çalışmanın ağır darbeli yük sınıfında (H) olduğu anlamına gelir.

Günlük çalışma süresi ve saatteki start-stop sayısı makinanın çalışma şartlarından kolayca belirlenir. Sonrasında sayfa 4'deki diyagram 1 kullanılarak mekanik yönden gerekli servis faktörü değeri bulunur.

2.Termal Limit Kontrolü

Redüktörde bazı çalışma koşullarında aşırı ısınma gözlemlenir. Termal sınırlar kataloglardaki termal yönden müsaade edilen motor güç değerlerine bakılarak kontrol edilmelidir. Termal güç değerlerinin yeterli olmadığı durumlarda çalışma koşullarına göre verilecek ilave soğutucularla (fan, serpantin, eşanjör, radyatör vb.) termal güç değerlerini arttırmak mümkündür.

Redüktörün aşırı ısınmaması için güç transferi sürelerinin belirlenen çalışma zamanının aşılması gereklidir. Termal olarak transfer edilebilen güç süresi (3saat) sadece PA/PF62, PD/PM62, PKD 6390 ve daha büyük gövdeler için olası bir sınırı temsil eder.

Gearbox Selection

When selecting gear unit , PGR assumes that three-phase AC motor or single phase AC motor are used. This is also valid for technically comperable motors. If you intend to use a motor other than PGR, please contact with PGR. If you do not obey the main instructions which are given below, you may have some problems like overloading. In these situations, our all guarantees will be invalid. If you want get high efficiency from our products, the main step is choosing right product.

At reducer choosing step, you should be careful about following points like mechanical control, thermal limit control, the radial and axial loads control which is on reducer shaft and service factor.

After deciding input power, desired ratio number and service factor, you should decide which reducer is suitable for your machines. If you want to ensure optimal working conditions, all problems caused by overloading should be prevented.

At choosing step, external spare parts, input and output accessories has also importance. When using equipments which are not advised by PGR and under suspecious situation which can harm reducer, please consult to PGR sales office department which is responsible for giving technical information to you.

Applications which are done without information of us and wrong selections are out of guarantee.

The conditions of selecting gear unit are as the following:

1.Mechanical control:

Firstly, you should know working conditions of your machine. These are daily working time,revolution per hours and loads which are applied from driven machine to gear unit should be known in which load classification.

Load Classification can be determined from ratio between external moment of inertia and motor moment of inertia(maf) If $maf \leq 0.25$ it is Uniform application(U) $0.25 < maf \leq 3$ it is Moderate impact application(M) $3 < maf \leq 10$ it is Heavy impact application(H)

You can easily decide to daily working time, revolution per hours from working conditions of machine. After that, you can choose service factor from diagram at page 4 on mechanical way.

2.Thermal Limit Control

Overheating may happen in gearbox under some operating conditions. Thermal limits should be checked by looking at the thermally permissible motor power values at catalogues. If thermal power values are not enough, it will be possible to increase the thermal power values with additional coolers like fan, coil, heat exchanger, radiator, etc.,and they should be given according to the operating conditions.

For the gearbox does not to be overheated, the power transfer times must not exceed the specified operating time. Thermally transferable power time (3hour) shows a possible limit only for PA/PF 62, PD/PM 62, PKD 6390 and larger cases.

Getriebeauswahl

Bei der Getriebeauswahl prognostiziert PGR den Einsatz von Drehstrom-Asynchronmotoren und Einphasen-Wechselstrommotoren. Dies gilt auch für alle technisch vergleichbaren Motoren. Wenden Sie sich an PGR, wenn ein anderer Motor verwendet wird. Unerwünschte Überlastsituationen im Aggregat können auftreten, wenn bei der Auswahl des Getriebes folgende Hauptprinzipien nicht beachtet werden. In diesem Fall erlöschen alle von uns gegebenen Garantien. Der erste Schritt, um eine hohe Effizienz des zu verwendenden Reduzierstücks zu erzielen, besteht darin, das richtige Produkt auszuwählen, das zu Ihnen passt.

Bei der Auswahl des Reduzierstücks sollten die folgenden kritischen Punkte berücksichtigt werden. Dies sind mechanische Kontrolle, thermische Grenzkontrolle, quer und axiale Lastkontrolle an der Getriebewelle und Betriebsfaktorkontrolle.

Welches Getriebe für Ihre Maschine geeignet ist, sollte nach Ermittlung der erforderlichen Eingangsleistung, des gewünschten Übersetzungsverhältnisses und der Betriebsfaktorwerte entsprechend den Arbeitsbedingungen Ihrer Maschine entschieden werden. Es sollen optimale Arbeitsbedingungen geschaffen werden und alle Probleme durch Überlastung im Getriebe sollen vermieden werden.

Einer der wichtigsten Faktoren, die bei der Auswahl zu berücksichtigen sind, sind die externen Ersatzteile sowie das Eingangs- und Ausgangszubehör. Wenn andere Geräte als die von PGR empfohlenen Produkte verwendet werden oder der Verdacht auf eine Beschädigung des Getriebes besteht, sollte der PGR-Vertrieb kontaktiert und die technischen Daten und das Design erneut überprüft werden.

Alle von uns gegebenen Garantien erlöschen im Falle von Problemen im Zusammenhang mit dem Reduzierstück aufgrund der Anwendung und falscher Entscheidungen, die ohne Wissen des Unternehmens getroffen wurden.

Auswahlkriterien für Getriebe

1.Mechanische Kontrolle:

Zunächst sollten die Arbeitsbedingungen Ihrer Maschine bekannt sein. Dies sind die tägliche Arbeitszeit, die Anzahl der Starts-Stopps pro Stunde und die Ermittlung der Belastungsklasse der Maschine.

Der Stoßgrad ergibt sich aus der Gleichmäßigkeit des Betriebes und aus dem Massenbeschleunigungsfaktor (maf). Bei $maf \leq 0,25$ gleichmäßiger Betrieb (U), bei $0,25 < maf \leq 3$ ungleichmäßiger Betrieb (M) und bei $3 < maf \leq 10$ stark ungleichmäßiger Betrieb (H).

Die tägliche Arbeitszeit und die Anzahl der Starts-Stopps pro Stunde lassen sich leicht aus den Arbeitsbedingungen der Maschine ermitteln. Anschließend wird anhand von Diagramm 1 auf Seite 4 der mechanisch erforderliche Betriebsfaktor-Wert ermittelt.

2. Thermische Limitkontrolle

Unter bestimmten Betriebsbedingungen kann eine Überhitzung des Getriebes beobachtet werden. Thermische Grenzen sollten anhand der thermisch zulässigen Motorleistungswerte in den Katalogen überprüft werden. In Fällen, in denen die thermischen Leistungswerte nicht ausreichen, ist es möglich, die thermischen Leistungswerte mit zusätzlichen Kühlern (Lüfter, Serpentin-Kühler, Wärmetauscher, Öl/Wasserkühler usw.) entsprechend den Betriebsbedingungen zu erhöhen.

Damit das Getriebe nicht überhitzt, dürfen die Kraftübertragungszeiten die angegebene Betriebszeit nicht überschreiten.

Die thermisch übertragbare Leistungszeit beträgt (3h) und stellt nur bei PA/PF62, PD/PM62, PKD 6390 und größeren Körpern eine mögliche Grenze dar.

TR

TEKNİK BİLGİLER

Aşağıdaki maddelerden iki veya daha fazlasının geçerli olması durumunda redüktörün belirli operasyonel durumu kontrol edilmelidir. PGR ile iletişime geçmenizi öneririz.

- Ortam sıcaklığı 40°C fazla ise
- Dönme hızı n1 1500 min-1 üzerinde ise
- Motor gücü P1 100 kW ve üzeri ise
- W, IEC ve PAM adaptör bağlı redüktör söz konusu ise
- Dik olarak montaj söz konusu ise (M2 – M4)
- Tahvil oranı itop < 20 (Konik dişliler için itop < 40)

Redüktörün korunup sağlıklı çalışması için, ısı radyasyonu yoğun alanda çalışma, dar alanda çalışma, kapalı alanda çalışma gibi özel çevresel montaj koşullarının olduğu durumlarda PGR'ye danışınız.

3. Giriş gücü ve servis faktörü

Her bir uygulama için gerekli olan giriş gücü, hesaplama ile belirlenir. Motor anma gücü (P1), bu giriş gücünden sonra seçilir. Motor anma gücü istenilen güç değerinden biraz daha yüksektir. Bunun sebebi çalışma koşullarının standart dışı özel olabilesidir.

Montajı yapılacak 3 fazlı bir AC motorunun anma gücünü seçerken kısa aralıklı seyrek tork tesirini hesaplamaya gerek yoktur. İlave faktörler belirli bir frekans invertöründe çalışan 3 fazlı bir AC motor için anma gücünün seçimini etkiler. Dişli ünitesinin seçimini AC motorun aksine kısa aralıklı seyrek tork tesirleri etkiler. Dişli ünitesinin yük sınıfı belirlenirken bu kısa aralıklı seyrek tork tesirleri göz önünde bulundurulmalıdır. Redüktör servis faktörü fB bunu ve redüktör üzerindeki diğer etkileri yeterli doğrulukta hesaba katar.

5. Sayfadaki diyagram 1 günlük çalışma süresi, yük sınıflandırması, saatteki start-stop sayısı ile servis faktörü arasındaki ilişkiyi göstermektedir.

EN

TECHNICAL INFORMATION

If the two or more of below items are valid, the specific operational condition of the reducer should be checked. Please kindly contact with PGR.

- If the ambient temperature is above 40°
- If the rotation speed n1 is over 1500 min-1
- If the motor power P1 is 100 kW and above
- If there is W, IEC ve PAM adaptor connected gearbox
- In case of vertical mounting preferred (M2 – M4)
- The ratio itop < 20 (For bevel gears itop < 40)

Please kindly consult to PGR, in case of work in heat radiation-intensive area, work in narrow space, work in confined space to be prevented and worked healthier gearboxes.

3.Input power and service factor

For every application, the requiring input power should be calculated. Motor rated power (P1) should be selected after choosing input power. The motor rated power is slightly higher than the desired power value. The reason for this situation is working conditions are non-standart, they are special

It is not necessary to calculate the short-range rare torque effect when choosing the rated power of a 3-phase AC motor to be mounted. Additional factors affect the choice of rated power for a 3-phase AC motor operating in a particular frequency inverter. Unlike the AC motor, short-range infrequent torque effects affect the choice of gear unit. These short-range infrequent torque effects should be taken into account when determining the load class of the gear unit. The gear unit service factor fB takes this and other effects on the gear unit into account with sufficient accuracy.

Diagram 1 which is shown on page 5, presents relation between types of load, revolution per hour and minimum service factor depend on operation hours or day.

DE

TECHNISCHE INFORMATION

Wenn zwei oder mehr der folgenden Punkte zutreffen, sollte der spezifische Betriebszustand des Getriebes überprüft werden. Wir empfehlen Ihnen, sich an PGR zu wenden.

- Wenn die Umgebungstemperatur mehr als 40 °C beträgt
- Wenn die Drehzahl n1 über 1500 min-1 . liegt
- Wenn die Motorleistung P1 100 kW und mehr beträgt
- Bei W-, IEC- und PAM-Adapter angeschlossenem Getriebe
- Bei vertikaler Montage (M2 – M4)
- Bindungsverhältnis itop < 20 (itop < 40 für Kegelräder)

Wenden Sie sich an PGR in Fällen, in denen besondere Umgebungsbedingungen für die Montage herrschen, wie z. B. Arbeiten in einem wärmestrahlungsintensiven Bereich, Arbeiten in einem engen Bereich, Arbeiten in einem geschlossenen Bereich, zum Schutz und zum gesunden Betrieb des Getriebes.

3. Eingangsleistung und Servicefaktor

Die für jede Anwendung benötigte Eingangsleistung wird rechnerisch ermittelt. Die Motornennleistung (P1) wird nach dieser Eingangsleistung gewählt.

Die Motornennleistung könnte etwas höher sein als der gewünschte Leistungswert. Dies liegt daran, dass die Arbeitsbedingungen vom Standard abweichen können.

Bei der Auswahl der Nennleistung eines zu installierenden 3-Phasen-Wechselstrommotors muss der kurzzeitige seltene Drehmomenteffekt nicht berechnet werden. Zusätzliche Faktoren beeinflussen die Wahl der Nennleistung für einen 3-Phasen-Wechselstrommotor, der in einem bestimmten Frequenzrichter betrieben wird. Im Gegensatz zum Wechselstrommotor beeinflussen seltene Drehmomenteffekte im Nahbereich die Wahl des Getriebes. Diese kurzreichweitigen seltenen Drehmomenteffekte sollten bei der Bestimmung der Belastungsklasse des Getriebes berücksichtigt werden. Der Getriebebetriebsfaktor fB berücksichtigt diese und weitere Auswirkungen auf das Getriebe mit ausreichender Genauigkeit

Das Diagramm auf Seite 5 zeigt den Zusammenhang zwischen 1-Tages-Betriebszeit, Lastklassifizierung, Anzahl Starts-Stops pro Stunde und Betriebsfaktor.

TR

SERVİS FAKTÖRÜ

EN

SERVICE FACTOR

DE

SERVICEFAKTOR

Diyagram 1 günlük çalışma zamanına (saat), saatteki start sayısına ve uygulanan yük tipi sınıflandırmasına "U", "M", "H" göre gerekli servis faktörünü gösterir. Çalışma düzgünlüğüne ve kütle hız faktörüne (maf) bağlı olarak, üç yük sınıflandırması belirlenmiştir. Hareket ettirilen mekanizmaya gelen dış etkiler çalışma düzgünlüğü sınıflamasını tanımlarken kütleli ivme faktörüne bağlı olarak 3 farklı yük sınıflandırması belirlenir. Diagram 1 kullanılarak belirlenen servis faktörü, motorlu seçim tablolarında verilen servis faktörüne eşit ya da küçük olmalıdır.

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

The diagram 1 shows the required service factor according to daily working time (hours), revolution per hours, and the applied load type "U", "M", "H". Three load classifications are determined, and they are depending on the working regularity and the mass acceleration factor (maf). While the external effects on the driven mechanism define the working smoothness classification, 3 different load classifications are determined depending on the mass acceleration factor. Service factor which is determined by using Diagram 1 must be less than or equal to the service factor given in the motor selection tables.

Note : Service factor f_B which is obtained, should be multiplied with factor "k" which depends on drive type.

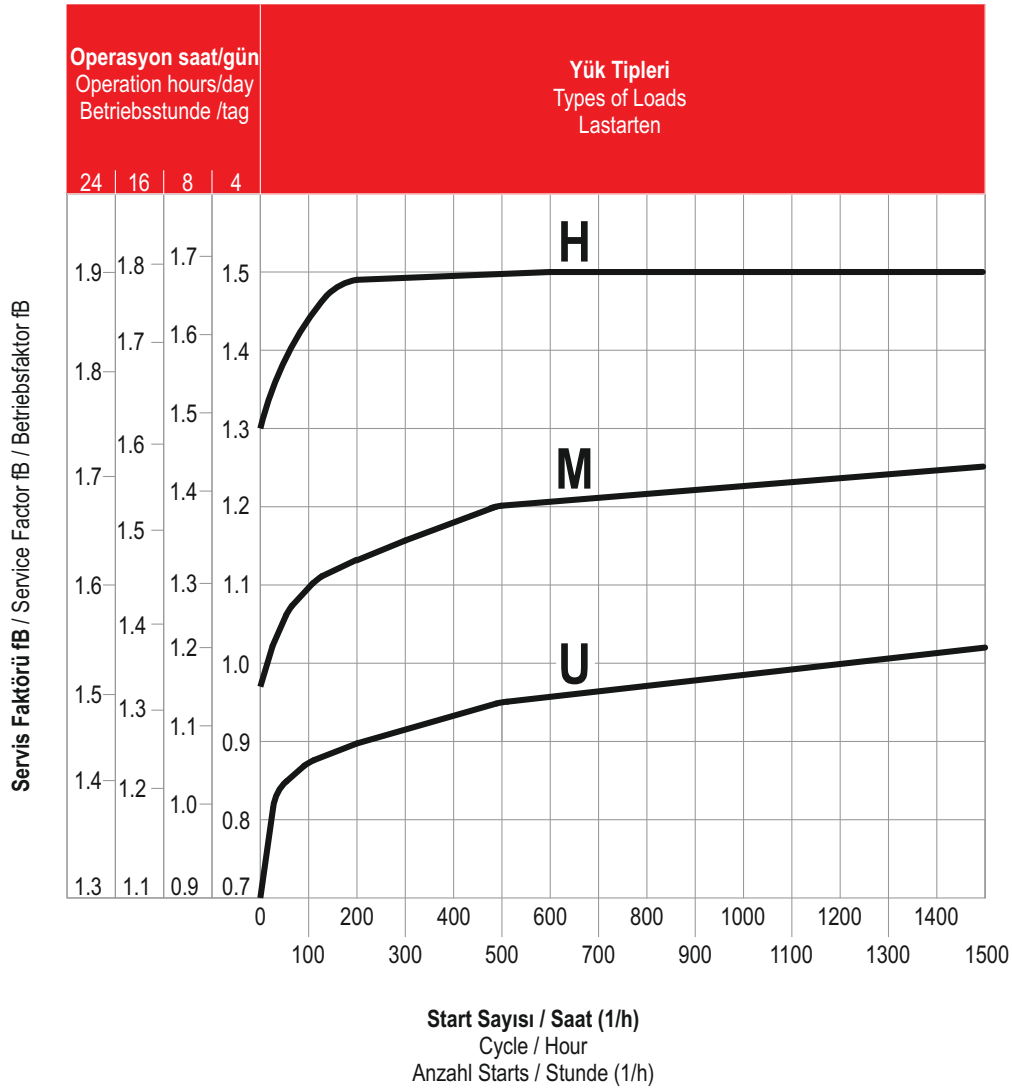
k = 1 ; hydraulic motor and electrical motor
k = 1.25 ; multi-cylinder engine
k = 1.50 ; single-cylinder engine

Das Diagramm zeigt den erforderlichen Betriebsfaktor entsprechend der 1-Tages-Betriebszeit (Stunden), der Anzahl der Starts pro Stunde und der angewendeten Lastartenklassifizierung "U", "M", "H". Auf Basis der Laufruhe und des Massengeschwindigkeitsfaktors (maf) wurden drei Belastungsklassen ermittelt. Während die äußeren Einwirkungen auf den angetriebenen Mechanismus die Laufruheklasse bestimmen, werden in Abhängigkeit vom Massenbeschleunigungsfaktor 3 verschiedene Lastklassen bestimmt. Der nach Diagramm 1 ermittelte Betriebsfaktor muss kleiner oder gleich dem in den Motorauswahltabellen angegebenen Betriebsfaktor sein.

Hinweis: Der resultierende Betriebsfaktor f_B wird mit dem Koeffizienten "k" entsprechend der verwendeten Antriebsart (Antrieb) multipliziert.

k = 1 ; Elektromotor oder Hydromotor
k = 1,25 ; Mehrzylinder-Verbrennungsmotor
k = 1,50 ; Einzylinder-Verbrennungsmotor

Diyagram / Diagram / Diagramm - 1



Yük Sınıfının Belirlenmesi:**U) Düzgün çalışma**

Küçük karıştırıcılar, asansörler, konveyörler, montaj bantları, doldurma makinaları, bantlı konveyörler, temizleme makinaları, fanlar, test makinaları, santrifuj pompalar (ince sıvı pompalar).

M) Yumuşak şoklar, düzgün olmayan çalışma

Ağır yük konveyör bantları, değirmenler, ahır gübre makinaları, vinç hareket mekanizmaları, bükme makinaları, çimento karıştırıcılar, ahşap işleme makinaları için tahrik mekanizmaları, vinçler, kayar kapılar, balans makinaları, paketleme makinaları, dişli pompalar, santrifuj pompalar (yarı sıvı pompalar), vana döndürme dişlileri, dokuma tezgahları, hallaç makinaları, harman makinaları, taneleme (debegat) tekneleri, kolenderler, agidatörler, kurutma merdaneleri.

H) Ağır şoklar, aşırı düzgün olmayan çalışma

Taş kırıcılar, eksantrik presler, doğrayıcılar, presler, taşlama milleri, çekiçli kırıcılar, kağıt öğütücüler, ağır yük karıştırıcılar, delme makinaları, katlama makinaları, dönen tezgahlar, yatay karıştırıcılar, kesiciler, vibratörler, santrifuj makinaları, döner tablalar, ağır yük vinç ve asansörler, plaka-silindir-soğuk haddeleme makinaları, hız ayarlı sabit silindirler, kağıt hamur makinaları, kurutma silindirleri, perdelama silindirleri.

Yük sınıfı (çalışma düzgünlüğü) aşağıdaki tabloya göre kütle hız faktörü (maf) den belirlenir. Eğer çalışma düzgünlüğü ile hesap ettiğimiz maf birbirleriyle uyumlu değilse (Örneğin: yumuşak geçişli düzgün olmayan çalışma koşulu ve maf:0,2 için gerekli yük sınıfımız "M" olmalıdır ya da düzgün çalışma koşulu ve maf : 0,28 için gerekli yük sınıfımız yine M olmalıdır.) daha ağır çalışma sınıfı gurubuna giren geçerlidir.

Determination of Load Class:**U) Regular operation**

Small agitator, elevators, conveyors, mounting belt, filling machines, belt conveyors, cleaning machines, fans, testing machines, centrifugal pumps (fine liquid pumps).

M) Moderate shocks, non-uniform application

Heavy conveyor belts, mills, barn manure machine, crane motion mechanisms, bending machines, cement mixer, driving gear mechanisms for wood processing machines, cranes, sliding door, balancing machines, packaging machines, gear pumps, centrifugal pumps, valve turning gears, weaving looms, carding-machines, threshing machines, granulation vats, corianders, agitators, drying rollers.

H) Heavy shocks, non-uniform application

Stone crushers, eccentric press machines, choppers, press machines, grindingmills, hammer mills, shredders, heavy mixers, boring machines, folding machines, turning looms, horizontal mixers, cutters, vibrators, centrifugal machines, heavy cranes and elevators, plate-cylinder-cold extrusion machines, fixed cylinder with regulated velocity, sluch machines, drying cylinders, polishing cylinders,

The load classification is determined from the mass velocity factor (maf) according to the below table. If the working regularity and the mass acceleration factor we calculated are not compatible with each other (For example: our required load class should be "M" for moderate shocks, non-uniform application and maf:0,2, or our required load class for regular application and maf: 0.28 is still M. It should be valid), the heavier running classification is valid.

Bestimmung der Belastungsklasse:**U) gleichmäßiger Betrieb**

Kleinmischer, Elevatoren, Förderer, Montagebänder, Abfüllmaschinen, Bandförderer, Reinigungsmaschinen, Ventilatoren, Prüfmaschinen, Kreiselpumpen (Feinflüssigkeitspumpen).

M) Weiche Stöße, ungleichmäßiger Betrieb

Schwerlastförderbänder, Mühlen, Stallmistmaschinen, Kranantriebe, Biegemaschinen, Betonmischer, Antriebe für Holzbearbeitungsmaschinen, Kräne, Schiebetüren, Auswuchtmaschinen, Verpackungsmaschinen, Zahnradschneidemaschinen, Kreiselpumpen (Halbflüssigkeitspumpen), Ventilatorvorrichtungen, Webstühle, Putzereimaschinen, Dreschmaschinen, Granulier-(Debegat-) Behälter, Siebe, Rührwerke, Trockenwalzen.

H) Starke Stöße, stark ungleichmäßiger Betrieb

Steinbrecher, Exzenterpressen, Häcksler, Pressen, Mahlspeindeln, Hammerbrecher, Aktenvernichter, Hochleistungsmischer, Stanzmaschinen, Abkantmaschinen, Rundtische, Horizontalmischer, Schneidgeräte, Vibratoren, Zentrifugen, Rundtische, Schwerlastkräne und Aufzüge, Plattenzylinder - Kaltwalzmaschinen, geschwindigkeitsregulierbare Festwalzen, Auflösesmaschinen, Trockenwalzen, Kalandarwalzen.

Klassifizierung der Gleichmäßigkeit des Betriebes: Der Stoßgrad ergibt sich aus der Gleichmäßigkeit des Betriebes und aus dem Massenbeschleunigungsfaktor 'maf' gemäß der folgenden Tabelle. Hierbei gilt jeweils der größere Stoßgrad aus Betrieb und Massenbeschleunigungsfaktor. (Beispiel: ungleichmäßiger Betrieb und maf = 0,2 ergibt Stoßgrad "M".)

Yük Sınıfı Load Classification Stoßgrad	Çalışma Operation Betrieb	Kütle hız faktörü Mass Acceleration Factor Massenbeschleunigungs-faktor
U	Düzgün çalışma / Uniform application / gleichmäßiger Betrieb	maf ≤ 0.25
M	Düzgün olmayan çalışma / Non-uniform application / ungleichmäßiger Betrieb	0.25 < maf ≤ 3
H	Aşırı düzgün olmayan çalışma / Extreme non-uniform application / stark ungleichmäßiger Betrieb	3 < maf ≤ 10

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

i_{ges} = Tahvil oranı

$J_{ex.red}$ = Tahrik motoru üzerindeki azaltılmış dış kütle atalet momentleri toplamı

J_{ex} = Dış kütle atalet momentleri toplamı

J_{mot} = Motorun kütle atalet momenti toplamı

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

i_{ges} = Getriebeübersetzung

$J_{ex.red}$ = alle externen Massenträgheitsmomente auf Antriebsmotor reduziert

J_{ex} = alle externen Massenträgheitsmomente

J_{mot} = Massenträgheitsmoment des Motors

Kütle hız faktörü maf, çıkış tarafındaki dış kütleler ile giriş tarafındaki yüksek hızlı kütlelerin arasındaki ilişkiyi gösterir.

Kütle hız faktörünün dişli ünitesinin tork tesir seviyesine önemli ölçüde sistem başlatma, frenleme ve titreşim üzerinden etkisi vardır.

Örneğin bir bantlı konveyör sistemini ele alalım. Burada dış kütle atalet momentini konveyör bant üzerinde taşınan malzemenin kütle hız faktörü oluşturur. Eğer maf > 10 ise transfer elemanlarında büyük deplasman (yük değişimi) var ise ya da yük sınıflandırmamızda bir belirsizlik var ise PGR'ye danışınız. Bu ve benzeri hususlarla belirli şüpheleriniz var ise PGR'ye danışınız.

The mass acceleration factor (maf) shows the relationship between the outer masses on the output side and the high speed masses on the input side.

The mass acceleration factor has an important effect on the torque effect level of the gear unit through system starting, braking and vibration

Take, for example, a belt conveyor system. Here, the mass load of the material carried on the conveyor belt creates the external mass moment of inertia. If maf is >10, there is a large displacement (load change) in the transfer elements or if there is an uncertainty in our load classification, consult PGR. If you have certain doubts about these and similar issues, consult PGR.

Der Massenbeschleunigungsfaktor maf stellt das Verhältnis von externen abtriebsseitigen und schnellaufenden antriebsseitigen Massen dar. Der Massenbeschleunigungsfaktor hat wesentlichen Einfluss auf die Höhe der Drehmomentstöße im Getriebe bei Anlauf- und Bremsvorgängen und Schwingungen. Die externen Massenträgheitsmomente beinhalten auch die Last wie z.B. das Fördergut und Transportbändern. Bei maf >10 bei großem Spiel in Übertragungselementen, Schwingungen im System, bei Unklarheiten zum Stoßgrad oder in Zweifelsfällen bitten wir Sie um Rücksprache mit PGR.

Redüktörümüzün servis faktörü f_B 'dir. Redüktörümüz için geçerli maksimum çıkış momenti M_{max} 'dir. Motor gücümüz P_1 'dir. Redüktör çıkış devrimiz n_2 'dir. Redüktörümüzün operasyonel çıkış momenti M_2 'dir.

Sistemimiz mekanik bir sistem olduğu için sistem ünitemizde kayıplarımız mevcuttur. Giriş gücümüz %100 kayıpsız olarak çıkışa iletilmez. Bu sebeple yüzde cinsinden verimliliği göz önünde bulundurmakta ve bunu hesaplarımızdaki formüllere eklemekteyiz. Redüktör verimliliği: η 'dir

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

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

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

Redüktörümüzün doğru seçimi, motorlu seçim tablolarımızda mevcut olan f_B Servis faktörü değerinin Diyagram 1'den bulduğumuz minimum servis faktörümüz f_{Bmin} değerlerinden büyük veya eşit olması durumunda mümkündür.

Selection of gear unit is correctly done if service factor which is taken from selection of gear motors table must be greater than or equal to minimum service factor f_{Bmin} which is taken from diagram-1

$$f_B \geq f_{Bmin}$$

Helisel dişli redüktörler, Paralel shaft montajlı redüktörler ve Helisel konik dişli redüktörler her bir kademede çok yüksek verime sahiptir (kademe başına yaklaşık %96 - %98 veya $\eta = 0,96 - 0,98$). Bu yüzden hesaplamalarda verim $\eta = 1,0$ alınması yeterli ve doğru sonuçlara ulaşılmasına yardımcı olur. Helisel sonsuz dişli redüktörlerin verimliliği (η), her bir çıkış hızı (n_2) için oranlar W, IEC, PAM Seçim tablolarında belirtilmiştir. W kovani montajlı (serbest hareket mili) redüktörde çıkış gücü aşağıdaki formülden hesaplanır.

Helical gear reducers has higher efficiencies than Parallel shaft mounted gear units and Helical bevel gear reducers. (approx. 96% - 98% per step or $\eta = 0.96 - 0.98$). Therefore, taking efficiency $\eta = 1.0$ in calculations helps to achieve sufficient and correct results. For efficiency (η) of helical worm gear units, the ratio of each output speed (n_2) are specified in the W, IEC, PAM selection tables. Output power is calculated from the below formula for the W (free input shaft) gear unit.

$$P_1 = \frac{M_{max} \cdot n_2}{9550 \cdot f_{Bmin} \cdot \eta} \quad [\text{kW}] \quad M_{max} \quad [\text{Nm}], \quad n_2 \quad [\text{min}^{-1}]$$

Redüktörümüzün güvenli ve verimli bir şekilde çalışması için maksimum tahrik gücü P_{1max} 'in aşılmaması gerekir.

For the safe and efficient operation of our gearbox, the maximum drive power P_{1max} must not be exceeded.

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

W, IEC, PAM bağlantılı redüktörler için W, IEC, PAM seçim tablolarında her bir çıkış devri (n_2) ve maksimum çıkış momenti (M_{max}) için P_{1max} değerleri tablo halinde listelenmiştir.

For gear units with W, IEC, PAM connection, P_{1max} values for each output speed (n_2) and maximum output torque (M_{max}) are listed in the W, IEC, PAM selection tables.

Tahrik tarafına fren bağlanmış (Öm: frenli motorlar) redüktörlerin seçimi yapılırken fren momenti de göz önüne alınmalıdır. Dış kütle atalet momentinin yüksek olduğu ($maf > 2$) uygulamalarda (örn; çember dişlilerde, döner tablalarda, karıştırıcılarda, yüzey havalandırıcılarında veya kapı sistemlerinin tahriklerinde) fren torkunun nominal anma momentinin 1,2 katından büyük olmaması, bu değer aşılmaması tavsiye edilir. Belirtilen değerlerden daha yüksek fren torku kullanılacak ise bu durum redüktör seçimi yapılırken göz önünde bulundurulmalıdır. Lütfen istenmeyen durumları engellemek için PGR'ye başvurunuz.

The braking torque must also be taken into account when selecting gear units with brakes on the drive side (eg brake motors). In applications in which the external mass moment of inertia is high ($maf > 2$) (e.g. ring gears, rotary trays, mixers, surface aerators or drives of door systems), it is recommended that the braking torque should not be greater than 1.2 times the rated torque, so it can not exceed this value. If specified value is higher than braking torque, this should be taken into account while selecting the gear unit. Please contact PGR to prevent undesirable situations.

Der Betriebsfaktor des Getriebes (f_B). Das gültige maximale Abtriebsdrehmoment für Getriebe (M_{max}) Motorleistung (P_1) Abtriebsdrehzahl (n_2) Abtriebsdrehmoment (M_2)

Da unser System ein mechanisches System ist, haben wir Verluste in unserer Systemeinheit. Unsere Eingangsleistung kann nicht 100% verlustfrei auf den Ausgang übertragen werden. Aus diesem Grund betrachten wir den Wirkungsgrad in Prozent und fügen ihn in unseren Berechnungen zu den Formeln hinzu. Getriebewirkungsgrad: η

Die richtige Auswahl unseres Getriebes ist möglich, wenn der in unseren Motorauswahltabellen verfügbare Wert f_B Servicefaktor größer oder gleich unserem minimalen Servicefaktor f_{Bmin} ist, den wir aus Diagramm 1 gefunden haben.

Stirnradgetriebe, Flachgetriebe und Kegelradgetriebe haben einen sehr hohen Wirkungsgrad (ca. 96% - 98% je Getriebe-stufe oder $\eta = 0,96 - 0,98$). Daher führt der vereinfachte Getriebewirkungsgrad $\eta = 1,0$ in der Regel zu hinreichend und korrekte Ergebnissen. Bei Stirnrad-schneckengetrieben ist der Getriebewirkungsgrad (η) der Schneckengetriebe in den Leistungs- und Übersetzungstabellen (W, IEC, PAM) für die jeweilige Abtriebsdrehzahl (n_2) aufgeführt. Bei Getrieben mit freier Antriebswelle Typ W darf die installierte Antriebsleistung P_1 höchstens betragen:

Hierbei darf die maximale Antriebsleistung P_{1max} nicht überschritten werden.

$P_1 \leq P_{1max}$ Die Leistungs- und Übersetzungstabellen (W, IEC, PAM) führen die jeweiligen Abtriebsdrehzahl n_2 das maximale Getriebeabtriebsdrehmoment M_{max} und die maximale Motorleistung P_{1max} auf.

Bei angebauten antriebsseitigen Bremsen, wie z.B. bei Bremsmotoren ist bei der Getriebeauswahl auch das Bremsmoment zu beachten. Bei Anwendungen mit relativ hohen externen Massenträgheitsmomenten ($maf < 2$) wie z.B. häufig bei Fahrtriebwerken, Drehwerken, Drehtischen, Torantrieben, Rührwerken und Oberflächenbelüftern wird empfohlen, ein Bremsmoment zu wählen, dass nicht größer als das 1,2-fache Motornennmoment ist. Wenn höhere Bremsmomente zum Einsatz kommen sollen, ist dies bei der Getriebeauswahl zu berücksichtigen. Wir bitten dann um Ihre Anfrage.

Radial ve Eksenel Kuvvetler

Motorlu seçim tablolarında, çıkış mili üzerine müsaade edilebilir radyal kuvvetler (FR) ve eksenel kuvvetler (FA) ile listelenmiştir. Opsiyonel olarak birçok redüktör tipimizde güçlendirilmiş çıkış mili yataklarımız mevcuttur.

Motorlu seçim tablolarında güçlendirilmiş yataklara etki eden radyal kuvvetler (FRGR) ve eksenel kuvvetler (FAGR) olarak değerleri belirtilmiştir. Tablolarda belirtilen radyal ve eksenel kuvvetler, ayak montajlı ve flanş montajlı dişli ünitelerinin dolu mil çıkışlı montajları için geçerlidir. Verilen bu eksenel ve radyal kuvvetlerin aynı anda çıkış miline etkilememesi koşulluna dayanmaktadır.

Ayrıca motorlu seçim tablolarında yer alan radyal ve eksenel kuvvet değerleri sistemin servis faktörünün ($f_B=1$) bire eşit olduğu durum için verilmiştir. Darbeli yükler, darbeli tekrarlı yükler, uzun süreli çalışmalı (>8 saat/gün) gibi uygulamalarda servis faktörünün ($f_B>1$) birden büyük olduğu duruma karşılık gelen radyal ve eksenel kuvvetler dikkate alınmalıdır. İzin verilen FA ve FR kuvvetleri buna göre azaltılır.

Motorlu seçim tablolarında verilen radyal ve eksenel kuvvet değerleri milin orta noktasına etkiyen bir kuvveti ifade eder. İzin verilen radyal ve eksenel kuvvetler belirlenirken uygulanan kuvvetin uygulama istikameti ve dönüş yönünün en elverişsiz olması durumu varsayılmıştır.

Daha yüksek radyal ve eksenel kuvvetler potansiyel olarak kuvvet yönünün uygulama doğrultusuna ve dönüş yönüne göre mümkündür. Kesin bir hesaplama için bu tip uygulamalar söz konusu ise operasyonel kuvvet yönünü, dönüş yönünü ayrıca istenilen servis süresini (gerekli olan) detaylı olarak PGR'ye iletiniz.

Çıkış miline ilave transfer elemanı takılırsa, mile etkiyen radyal kuvvetin belirlenmesinde aşağıdaki tablodan bulunacak olan fz faktörü de dikkate alınmalıdır.

fz için Tablo

Transfer Elemanları	Faktör fz	Açıklama
Dişliler	1.1	$z \leq 17$ diş
Zincir Dişliler	1.4	$z \leq 13$ diş
Zincir Dişliler	1.2	$z \leq 20$ diş
Dar V-Kayış Kasnakları	1.7	ön gerilim
Düz kayış Kasnakları	2.5	kuvveti
Dişli Kayış Kasnakları	1.5	

Radial and Axial Forces

In the motor selection tables, allowable radial forces (FR) and axial forces (FA) for over output shaft are listed. Optionally, we have reinforced output shaft bearings in many gearbox types.

They are given as a radial forces (FRGR) and axial forces (FAGR) acting on the reinforced bearings in the motor selection tables. The radial and axial forces indicated in the tables are valid for solid shaft output mountings of foot-mounted and flange-mounted gear units. This is valid on the condition that axial and radial forces do not affect the output shaft at the same time.

In addition, the radial and axial force values in the selection tables with motor are valid for the case where the service factor of the system ($f_B=1$) is equal to one. In applications such as shock loads, pulsed repetitive loads, long-term operation (>8 hours/day), you should take into account radial and axial forces corresponding to the case where the service factor ($f_B>1$) is greater than one. The allowable FA and FR forces are reduced accordingly.

The radial and axial force values which is given in the motor selection tables represent a force acting on the midpoint of the shaft. While determining the allowable radial and axial forces, we assumed the application direction of the applied force and the most unfavorable rotation direction.

Higher radial and axial forces are potentially possible with respect to the direction of application and the direction of rotation of the force direction. For an exact calculation, if such applications are in calculation, please inform PGR in detail the operational force direction, the direction of rotation, and the required service time (required).

If an additional transfer element is attached to the output shaft, the fz factor from the table below should also be taken into account in determining the radial force acting on the shaft.

fz values are shown at table

Transfer Elements	Factor fz	Explanation
Gears	1.1	$z \leq 17$ teeth
Chain Sprockets	1.4	$z \leq 13$ teeth
Chain Sprockets	1.2	$z \leq 20$ teeth
Narrow V-belt pulleys	1.7	by
Flat belt pulleys	2.5	pretension force
Gear belt pulleys	1.5	

Quer- und Axialkräfte

In den Tabellen der Leistungs- und Drehzahlübersichten sind die zulässigen Querkräfte (FR) und Axialkräfte (FA) die auf den äußeren Zapfen der Abtriebswelle wirken dürfen aufgeführt.

Für vielen Getriebetypen sind optional verstärkte Abtriebswellenlager lieferbar. Die Werte der auf die verstärkten Lager wirkenden Querkräfte (FRGR) und Axialkräfte (FAGR) sind in den Motorauswahltabellen angegeben. Die in den Tabellen angegebenen Quer- und Axialkräfte gelten für Fuß- und Flanschgetrieben mit Vollwelle. Die Kraftangaben beziehen sich auf den Fall, dass Quer- und Axialkraft nicht gleichzeitig vorliegen.

Außerdem liegt den Kraftangaben in den Tabellen der Leistungs- und Drehzahlübersicht ein Betriebsfaktor für Quer- und Axialkräfte ($f_B=1$) zugrunde. Bei stoßartigen Kräften und längeren Laufzeiten > 8 Stunden/Tag ist auch für die Quer- und Axialkräfte ein entsprechender Betriebsfaktor ($f_B>1$) zu berücksichtigen. Die zulässigen Querkräfte FA- und FR- werden entsprechend reduziert.

Die Querkraftangaben beziehen sich auf Kraftangriff in der Mitte des Wellenendes. Bei der Ermittlung der zulässigen Quer- und Axialkräfte wurde die ungünstigste Kraftangriffsrichtung und Drehrichtung angenommen.

Höhere Quer- und Axialkräfte sind eventuell möglich. Wenn solche Anwendungen in Frage kommen, teilen Sie PGR bitte detailliert für eine genaue Berechnung, die Angaben der tatsächlichen Kraft- und Drehrichtung sowie der erforderlichen Lebensdauer mit.

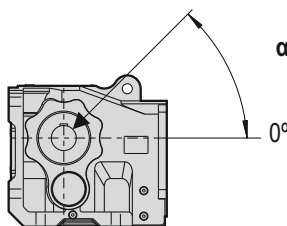
Werden auf der Abtriebswelle Übertragungselemente aufgesetzt, so ist bei der Ermittlung der auftretenden Querkraft ein entsprechender Faktor (fz) zu beachten.

Querkraft-Faktor fz

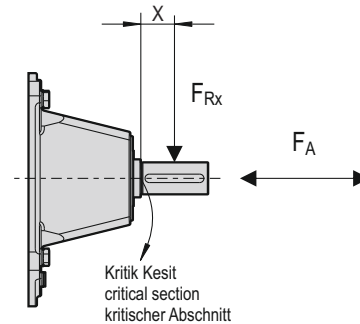
Übertragungselemente	Faktor fz	Hinweise
Zahnräder	1.1	$z \leq 17$ Zähne
Kettenräder	1.4	$z \leq 13$ Zähne
Kettenräder	1.2	$z \leq 20$ Zähne
Schmalkeilriemenscheiben	1.7	durch
Flachriemenscheiben	2.5	Vorspannkraft
Zahnriemenscheiben	1.5	

Kuvvet uygulama noktası :

Kuvvet uygulama noktası aşağıdaki şekillere göre tanımlanır.

**Definition of force application point:**

The point of force application is defined according to the following figure.

**Definition des Kraftangriffs**

Der Kraftangriff wird gemäß dem folgenden Bild definiert

F_{R_x} : "X" Uygulama noktasındaki müsaade edilen radyal kuvvet [N]

F_A : Müsaade edilen eksenel kuvvet [N]

F_{R_x} : Permitted overhung load at point [N]

F_A : Permitted axial force [N]

F_{R_x} : zulässige Querkraft bei Abstand [N]

F_A : zulässige Axialkraft [N]

TR

TEKNİK BİLGİLER

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

$$F_{R\text{vorth}} = \frac{2 \cdot M_a}{d_0} \cdot f_z \leq F_R$$

M_2 : Redüktör çıkış momenti [Nm]
 f_z : Tablodaki radyal kuvvet faktörü
 d_0 : Etkin daire çapı [mm]
 F_R : Seçim tablolarından alınan müsaade edilebilir radyal kuvvet [kN]
 $F_{R\text{vorth}}$: Mil üzerindeki radyal kuvvet [kN]

EN

TECHNICAL INFORMATION

The radial force on the shaft was calculated using the formula below.

$$F_{R\text{vorth}} = \frac{2 \cdot M_a}{d_0} \cdot f_z \leq F_R$$

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

DE

TECHNISCHE INFORMATION

Die auftretende Querkraft an der Getriebewelle wird wie folgt bestimmt:

M_2 : (Nm) Abtriebsmoment des Getriebes
 f_z : Querkraft-Faktor aus Tabelle
 d_0 : (mm) Wirkkreisdurchmesser
 F_R : (kN) zulässige Querkraft nach Drehzahl und Leistungstabellen
 $F_{R\text{vorth}}$: (kN) vorhandene Querkraft an der Getriebewelle

Eğer kuvvet mil ortasına uygulanmazsa kuvvetin etki ettiği herhangi bir "x" noktasındaki müsaade edilen radyal kuvvet değeri aşağıdaki formül 1 ve formül 2 kullanılarak hesaplanır.

Formula 1 and formula 2 is used when force is not acting on the middle of shaft, by this way you can calculate permissible radial force value at any "x" point where the force acts

Ist der Kraftangriff nicht auf Wellenmitte, so kann die zulässige Querkraft mit Hilfe der Gleichungen 1 und 2 auf jede beliebige Stelle "x" umgerechnet werden.

Formül / Formula / Gleichung - I

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


Formül / Formula / Gleichung - II

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

X : mil faturasından (kritik kesitinden) kuvvet uygulama noktasına olan uzaklık [mm]
 F_{RXW} : x noktasına etkiyen müsaade edilebilir radyal kuvvet (Mil dayanımına göre)
 F_R : Motorlu seçim tablolarından gelen milin ortasına etkiyen radyal kuvvet [kN]
 F_{RXL} : x noktasına etkiyen müsaade edilebilir radyal kuvvet (yataklama, rulman servis ömrüne göre)
 z, y, f : Radyal yük dönüşümü için dişli ünitesi sabitleri
 c : Radyal yük dönüşümü için dişli ünitesi sabiti

X : distance from the shaft collar to the point of force application [mm]
 F_{RXW} : permitted overhung force point X - shaft stability
 F_R : overhung force from the speed and output tables, force applied at the middle of the shaft [kN] point X - bearing service life
 F_{RXL} : permitted radial force acting on point X (according to bearing service life)
 z, y, f : Gear unit constants for radial load conversion
 c : Gear unit constant for radial load conversion

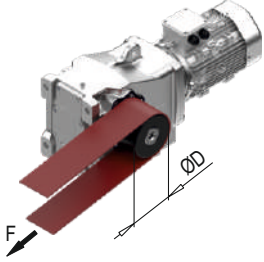
X : Abstand von Wellenbund bis Kraftangriff (mm)
 F_{RXW} : zul. Querkraft an Stelle x Wellenfestigkeit
 F_R : Querkraft aus Drehzahl- und Leistungstabelle, Kraftangriff auf Wellenmitte (kN)
 F_{RXL} : zul. Querkraft an Stelle x Lagerlebensdauer
 z, y, f : Faktoren siehe Tabelle
 c : Faktoren siehe Tabelle

c		[Nmm]
C_{GR}		[Nmm]
f	 10-13	[mm]
y		[mm]
z		[mm]

Burada hesaplamalarda formül 1'in yatak servis ömrüyle formül 2'nin mil dayanımıyla bağlantılı olduğu unutulmamalıdır. Yatak servis ömrüyle alakalı hesaplamalarda formül 1'den gelen sonuç, mil dayanımı ile alakalı hesaplamalarda formül 2'den gelen sonuç kullanılmalıdır.

It should be noted here that in calculations, formula 1 is related to service life and formula 2 is related to shaft stability. The result from formula 1 should be used in calculations related to service life, and the result from formula 2 should be used in calculations related to shaft stability.

Hierbei ist zu beachten, dass grundsätzlich nach Gleichung 1 (Lebensdauer) und Gleichung 2 (Wellenfestigkeit) gerechnet wird, wobei der kleinere Wert als zulässig anzugeben ist.

**RADYAL YÜKLERİN HESABI**

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

CALCULATION OF OVERHUNG LOADS

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

BERECHNUNG VON QUERKRAFT

Radiallast F (N) Berechnung erforderlich Antriebsmoment M (Nm), Durchmesser der Riemenscheibe oder des Gewindes D (mm) die folgenden Formeln es wird verwendet.

**1 - Elastik Kaplin**

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

1 - Elastik Coupling

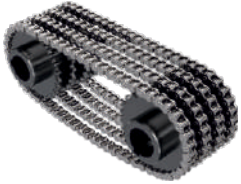
If elastic coupling is working in its reliable working area, the overhung loads can be neglected.

1 - Elastische Kupplung

Abweichungen im Betrieb gewährleisten die Sicherheit der Kupplung. Kräfte können vernachlässigt werden.

**2 - Düz Dişli (20° kavrama açılı)****2 - For Spur Gear (Pressure angle 20°)****2 - Stirnrad (20° Kupplungswinkel)**

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

**3 - Küçük Hızlarda Zincir Dişli (Z < 17)****3 - For Chain Drive With Low Speed (Z < 17)****3 - Kettenrad bei kleinen Geschwindigkeiten (Z < 17)**

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

**4 - Triger Kayış****4 - For Trigger Belt****4 - Zahnriemen**

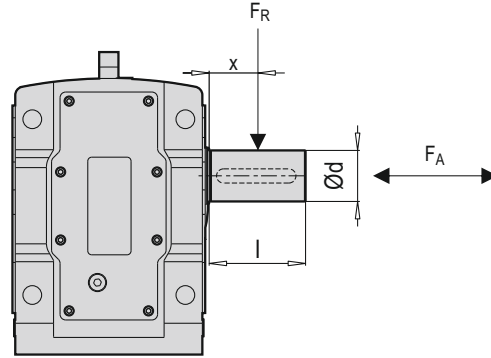
$$F_R = \frac{2500 \times M_2}{D}$$

**5 - V Kayış****5 - For V Belt****5 - Keilriemen**

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

**6 - Gerdirme Makaralı Kayış****6 - Flat Belt With Spanning Puley****6 - Spannrollenriemen**

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



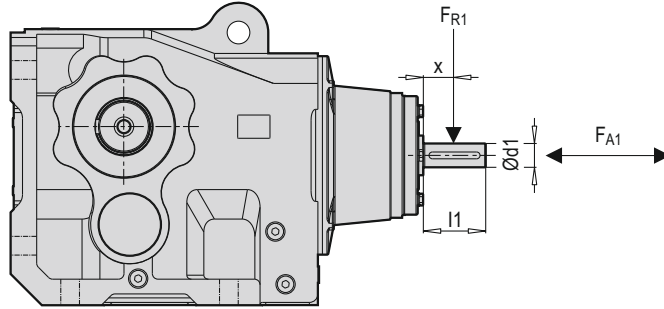
ÇIKIŞ ŞAFTINDAKİ RADYAL VE EKSENEL YÜK HESAPLAMALARI İÇİN DEĞERLER
VALUE TABLE FOR RADIAL AND AXIAL LOADS AT OUTPUT SHAFT
WERTE FÜR QUER UND AXIALKRAFT AN DER AUSGANGSWELLE

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

y - z - c - CGR - f 9

- W ADAPTÖR


- W ADAPTER



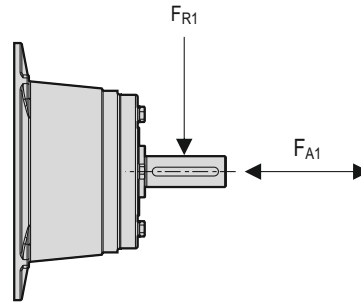
GİRİŞ ŞAFTINDAKİ RADYAL VE EKSENEL YÜK HESAPLAMALARI İÇİN DEĞERLER
VALUE TABLE FOR RADIAL AND AXIAL LOADS AT INPUT SHAFT
WERTE FÜR QUER UND AXIALKRAFT AN DER EINGANGSWELLE

f=0


Redüktör Tipi Gearbox Type Reduzierertyp	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

y - z - c  9

- W ADAPTÖR
- W ADAPTER



Tip Type Typ	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]
P1 (kW)	FA1	FR1	FA1	FR1	FA1	FR1	FA1	FR1	FA1	FR1	FA1	FR1	FA1	FR1	FA1	FR1	FA1	FR1
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

FA1 → FA1 = 0
FR1 → FR1 = 0  9

TR	KISALTMALAR	EN	ABBREVIATIONS	DE	ABKÜRZUNGEN
f_B	= Servis Faktörü (Mamax / Ma)	f_B	= Service factor (Mamax / Ma)	f_B	= Betriebsfaktor (Mamax / Ma)
F_A	= Çıkış tarafındaki müsaade edilebilir eksenel yük [kN]	F_A	= Permissible axial load at the output side [kN]	F_A	= zulässige axiale Belastung auf der Abtriebsseite [kN]
F_R	= Çıkış tarafındaki, milin orta noktasına etkiyen müsaade edilebilir radyal yük [kN]	F_R	= Permissible overhung load at the output side, force acting at the shaft's midpoint [kN]	F_R	= Querkraft aus Drehzahl- Leistungstabellen, Kraftangriff auf Wellenmitte [kN]
F_D	= Reaksiyon yükü [kN]	F_D	= Reaction [kN]	F_D	= Reaktionsbelastung [kN]
i_{toplam}	= Dişli ünitesindeki toplam tahvil oranı	i_{total}	= Gear units total ratio	i_{total}	= Gesamtübersetzungsverhältnis
i_{ges}	= Tahvil oranı	i_{ges}	= Reduction ratio	i_{ges}	= Übersetzungsverhältnis
M_2	= Çıkış momenti [Nm]	M_2	= Output torque [Nm]	M_2	= Abtriebsdrehmoment [Nm]
M_{amax}	= Müsaade edilebilir maksimum çıkış momenti [Nm]	M_{amax}	= Max. permissible output torque [Nm]	M_{amax}	= zul. Maximale Drehmoment [Nm]
n_2	= Çıkış devri [d/dk]	n_2	= Output speed [min ⁻¹]	n_2	= Abtriebsdrehzahl [min ⁻¹]
P_e	= Mamax referans alınarak hesaplanan güç [kW]	P_e	= Calculated power [kW] with reference to Mamax	P_e	= Mit der Referenz Mamax berechnete Leistung [kW]
P_n	= Motor güç oranı [kW]	P_n	= Rated power of motor [kW]	P_n	= Motorleistung [kW]
η	= Verim [%]	η	= Efficiency [%]	η	= Leistung [%]
kg	= Redüktörün ağırlığı	kg	= Weight of the geared motor	kg	= Gewicht des Getriebes

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.

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

1) Bei vier-, fünfstufigen Getrieben gibt es aufgrund der vielen sich drehenden Teile und der relativ kleinen Antriebsleistungen relevanten Leerlaufverluste. Daher wird hier bei 4-poligen Motoren bis 0,75 kW eine Leerlaufverlustleistung von ca. 40 Watt (W) in den Tabellen berücksichtigt.

HELİSEL KONİK DİŞLİ REDÜKTÖRLER (PKD)

Polat Group Redüktör ürünü olan Polat Konik Dişli (PKD) serisi 17 farklı gövde büyüklüğü ile hizmete sunulmaktadır. Redüktörler;
-PKD A 0290...H 5290 arası 2 kademeli,
-PKD 1390...5390 arası 3 kademeli redüktörlere indirgeyici giriş övlerini istenilen oranda düşüren dişli üniteleridir. Ayrıca bünyesindeki konik dişli yapısı ile giriş motor mili ve çıkış mili arasında 90° lik (dik) aktarım sağlar.

Her bir gövde büyüklüğümüz için gövdeden ve ayakta montaj opsiyonlarımız mevcuttur. PKD serisi redüktörlerimiz giriş övlerini istenilen oranda düşüren dişli üniteleridir. Ayrıca bünyesindeki konik dişli yapısı ile giriş motor mili ve çıkış mili arasında 90° lik (dik) aktarım sağlar.

Yeni nesil PGR dişli ünitelerimiz UNICASE ilkesine göre geliştirilmiştir. Redüktörlerimiz bu prensibe göre yekpare olarak tasarlanmıştır. Yekpare gövdemiz tüm rulmanların entegre edildiği tek bir muhafazadır. Yekpare gövdemizin son ölçülerine getirilmesi güncel ve son teknoloji CNC ünitelerimizde gerçekleştirilir. Unicase konsepti en yüksek düzeyde hassasiyet, rijitlik ve dayanıklılık sağlar. Eksenel kuvvetlere ve torqa maruz kalabilen redüktör gövdemizin üzerinde ayrı bağlantı elemanı yoktur. Unicase prensibi shaft eksenlerinin kademeli olmasına izin verir, bu da daha uzun bir çalışma ömrünü garanti etmek için daha büyük yatakla elemanı (rulman) kullanma olanağı sunar. Unicase prensibinin getirdiği hassas mil (shaft) hizalaması ve yüksek yüklem kapasitesi, uzun hizmet ömrü ve düşük gürültü sağlar. Dişliler, yataklar, miller DIN 3990 DIN ISO 281 uluslararası normlara göre hesaplanmıştır. Çıkış tarafı ile giriş arasında eksen kaçıklığına neden olabilecek çıkıntı veya tork yüklerine maruz kalan herhangi bir bağlantı elemanı (vida vb) yoktur. PİK / sfero veya alüminyum gövdeler için gövdeden sağlanan montaj kolaylığı ile vibrasyon salınım etkisi en aza indirilir.

Kullanıcı isteğine göre opsiyonel olarak her iki yönden sağlanan çıkış; her bir dişli kademesi için ayrı olarak 0,96...0,98 arasında yüksek bir verimlilikle (her bir kademedenin bağımsız olarak verimliliği bu değerler arasındadır) dişli ünitelerimizce sunulmaktadır.

Fabrikamızda bulunan son sistem CNC tezgahlarında açılan dişliler yüksek ve geniş yelpazeli imalat toleransı ile günümüz uluslararası standartlarının tamamını karşılamaktadır. Redüktör gövdelerimiz GG 25-30, GGG 50-60 ya da alüminyum yapılmıştır.

Yataklar ve dişliler tribolojinin kurallarına göre optimize edilmiş bir yağ banyosunda çalışır.

Dişli ünitelerimizin sızdırmazlığında NBR keçe kullanılır. Opsiyonel olarak viton (FKM) keçe kullanımımız da mevcuttur. Dövme malzemeden yapılan dişlilerimiz gerekli ısı işlem, sementasyon, honlama, gibi proseslerden geçirilerek redüktörümüzün sorunsuz çalışması sağlanır. Dişli dizaynındaki doğru oluşturulan geometri ve doğru malzeme seçimi, çalışan dişlilerimizin daha sessiz, daha hafif ve daha yüksek hızlarda daha fazla yük taşıırken daha az ısı üretmesini mümkün kılmaktadır. Redüktörlerimiz sessiz, yüksek dayanımlı ve servis ömrü uzun çalışma sağlamaktadır. Bu da zorlu çalışma koşullarında güvenli çalışmayı beraberinde getirir. PKD serisi redüktörlerimiz her türlü endüstriyel uygulamada kullanılabilir.

HELICAL BEVEL GEARED MOTOR (PKD)

Polat Bevel Gear (PKD) series, a product of PGR, have 17 different body sizes.

Gear Units;
-Gear units from PKD A 0290 to H 5290 is 2 stage.
-Gear units from PKD 1390 to 5390 is 3 stage. These gear units will be quadruple reduction by using reduction gear. (PKD 1490...5490)
-Gear units represented as only 3 stage from PKD 6390 to PKD 9390.
-We have 5 stage and 6 stage gearboxes for higher reduction ratios.

We have case and foot mounting options for each of our body sizes. Our PKD series are gear units reduce the input speed at the intended rate. In addition, it provides 90° (vertical) transmission between the input motor shaft and the output shaft with its bevel gear structure.

Our new generation PGR gear units have been developed according to the UNICASE principle. Our gear units are designed as a one-piece according to this principle. Our one-piece body is a single housing in which all bearings are integrated. Bringing our one-piece body to its final dimensions is carried out in our updated technology CNC units. The Unicase concept provides the highest level of precision, rigidity and durability. We do not have different connection element on our gear unit body, which can be exposed to axial forces and torque. The Unicase principle allows the shaft axes to have stages, which offers the possibility to use larger bearings (bearings) to guarantee a longer durability. The precise shaft alignment and high loading capacity which is provided by Unicase principle ensure durability and low noise. Gears, bearings, shafts are calculated according to DIN 3990 DIN ISO 281 international norms. There are no connector (screws, etc.) that are exposed to protrusion or torque loads that may cause axial misalignment between the output side and the input side. Vibration oscillation effect is minimized with the ease of mount provided from the body for ductile iron or aluminum bodies. Output provided from both sides optionally according to the user's request is offered by our gear units with a high efficiency of 0.96...0.98 for each gear stage separately (the efficiency of each stage independently is between these values).

The gears produced on the cutting-edge technology system CNC machines in our factory encounter provides all today's international standards with high and wide range with manufacturing tolerances. Our gear unit bodies are made of GG 25-30, GGG 50-60 or aluminum.

Bearings and gears work in an optimized oil bath according to the rules of tribology.

NBR seal is used in the leekproofing of our gear units. We have viton seal (FKM) as optional. Our gear units, which are made of forged material, are passed through the necessary processes such as heat treatment, cementation, honing. After that, our gear units is ensured working without problem. Correctly created geometry and correct material selection in gear design make it possible for our working gears to be quiet, lighter and they can generate less heat while carrying more loads at higher velocity. Our gear units provide quiet working and durability. This situation brings safe working in hard working conditions. Our PKD series gear units can be used in all kinds of industrial applications.

KEGELSTIRNRADGETRIEBE (PKD)

Ein Produkt der Polat Group Kegelradgetriebe (PKD)-Serie, wird mit 17 verschiedenen Gehäusegrößen angeboten. Getriebegehäuse;

- PKD A 0290 bis H 5290 2-stufig
- Bis zu PKD 1390 ... 5390 3-stufigen Kegelradgetriebe können durch die Montage des Reduktionskörpers auf 4 Stufen erhöht werden (PKD 1490 ... 5490).
-Körper bis PKD 6390...G 9390 sind nur in 3 Stufen lieferbar.
-Wir haben auch 5- und 6-stufige Getriebe für hohe Übersetzungsverhältnisse.

Wir haben Körper- und Fußbefestigungsoptionen für jede unserer Körpergrößen. Unsere Getriebe der Baureihe PKD sind Getriebe, die die Eingangsdrehzahl im gewünschten Maße reduzieren. Darüber hinaus bietet es mit seiner Kegelradstruktur eine 90° (vertikale) Übertragung zwischen der Antriebsmotorwelle und der Abtriebswelle.

Unsere PGR-Getriebe der neuen Generation wurden nach dem UNICASE-Prinzip entwickelt. Unsere Reduzierstücke werden nach diesem Prinzip als Einzelstück konstruiert. Unser solider Körper ist ein einziges Gehäuse, in dem alle Lager integriert sind. In unseren aktuellen und hochmodernen CNC-Anlagen wird unser Massivkörper auf Endmaß gebracht. Das Unicase-Konzept bietet ein Höchstmaß an Präzision, Festigkeit und Widerstandsfähigkeit. An unserem Reduzierkörper befindet sich kein separates Verbindungselement, das axialen Kräften und Drehmomenten ausgesetzt werden kann. Durch das Unicase-Prinzip können die Wellenachsen versetzt werden, was die Möglichkeit bietet, größere Lager zu verwenden, um eine längere Lebensdauer zu gewährleisten. Präzise Wellenausrichtung und hohe Belastbarkeit durch das Unicase-Prinzip sorgen für lange Lebensdauer und geringe Geräuschentwicklung. Zahnräder, Lager, Wellen werden nach den internationalen Normen DIN 3990 DIN ISO 281 berechnet. Es gibt keine Befestigungselemente (Schrauben usw.) zwischen der Abtriebsseite und dem Eingang, die Überstands- oder Drehmomentbelastungen ausgesetzt sind, die eine axiale Fehlausrichtung verursachen könnten. Der Schwingungseffekt wird durch die einfache Montage des Gehäuses für Guss-/Sphäroguss- oder Aluminiumkörper minimiert.

Ausgang aus beiden Richtungen wahlweise nach Wunsch des Benutzers; wird von unseren Getrieben mit einem hohen Wirkungsgrad zwischen 0,96...0,98 für jede Getriebestufe separat angeboten. (der Wirkungsgrad jeder Stufe liegt unabhängig zwischen diesen Werten).

Die in unserem Werk auf modernsten System - CNC-Maschinen geöffneten Verzahnungen erfüllen alle heutigen internationalen Standards mit hohen und weiten Fertigungstoleranzen. Unsere Reduzierkörper werden aus GG 25-30, GGG 50-60 oder Aluminium gefertigt.

Lager und Getriebe arbeiten in einem optimierten Ölbad nach den Regeln der Tribologie. Zur Abdichtung unserer Getriebe wird NBR-Filz verwendet. Optional ist auch Viton (FKM)-Filz erhältlich. Unsere Zahnräder aus geschmiedetem Material durchlaufen die notwendigen Prozesse wie Wärmebehandlung, Zementieren, Honen und sorgen für einen reibungslosen Betrieb unseres Getriebes. Eine richtig erstellte Geometrie und die richtige Materialauswahl in der Zahnradkonstruktion machen es möglich, dass unsere Zahnräder leiser, leichter und weniger Wärme erzeugen und gleichzeitig mehr Lasten bei höheren Geschwindigkeiten tragen. Unsere Getriebe zeichnen sich durch leiser Betrieb, hohe Festigkeit und lange Lebensdauer aus. Dies bringt sicheres Arbeiten unter schwierigen Arbeitsbedingungen mit sich. Unsere Getriebe der Baureihe PKD können in allen Arten von Industrieanwendungen eingesetzt werden.

TR

PKD TANITIMI

Motorlu ya da motorsuz seçeneklerde, W kovanlı, PAM ve IEC adaptörlü giriş opsiyonlu olarak ürettiğimiz helisel konik dişli redüktörlerde standart olarak sunduğumuz çıkış opsiyonlarımız;

- Delik millî
- Çıkış millî
- Konik sıkırtma delik millî

Aksesuarlarımız.

- Tork kolu / Tork kolu platformlu
- B5 / B14 flanşlı
- Çektirmeli
- Konik sıkırtmalı
- Kilitli
- Koruma kapaklı

Helisel Konik Dişli Redüktörler;
0.12 kW dan 200 kW'ya kadar değişen güçleri ile maksimum 65000 Nm'ye kadar çıkış momenti sağlayabilmektedir.

EN

DESCRIPTION OF PKD

The output options we offer as standard in the helical bevel gear reducers that we produce with W (free input shaft), PAM and IEC adapter input options, with or without motor options are as follows.

- Hollow Shaft
- Solid Shaft
- Hollow Shaft, With Shrink disc

Accessories.

- Torque arm/ Torque arm platform
- B5/B14 flange
- Fixing
- Shrink disc
- With backstop
- Protection cover

Helical bevel gear units which has power from 0.12 kW to 200 kW provides Maximum 65000 Nm output moment.

DE

PKD-EINFÜHRUNG

In Kegelradgetrieben, die wir mit W-Hülse, PAM- und IEC-Adapter-Eingangsoptionen herstellen, mit oder ohne Motoroptionen sind unsere Standardausgabeoptionen:

- Hohlwelle
- Abtriebswelle
- Schrumpscheibe, Hohlwelle

Unser Zubehör.

- Drehmomentstütze / Drehmomentstütze mit Plattform
- B5 / B14 geflanscht
- Mit Aufziehvorrichtung
- Schrumpfscheiben
- Mit Rücklaufsperr
- Mit Schutzabdeckung

Kegelradgetriebe;
Leistungsbereich von 0,12 kW – 200 kW, bis 65000 Nm

MAX. MÜSAADE EDİLEBİLİR ÇIKIŞ MOMENTİ $M_{a \max}$.

MAX. PERMISSIBLE OUTPUT TORQUES $M_{a \max}$.

MAX. ZULÄSSIGE AUSGANGSMOMENTE $M_{a \max}$.

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İki, Üç ve dört kademeli helisel konik dişli redüktör
Double, triple, Quadruple reduction helical bevel gearboxes
Zwei-, drei- und vierstufiges Kegelstirnradgetriebe

Tip / Type / Typ	$M_{a \max}$. (Nm)	Tip / Type / Typ	$M_{a \max}$. (Nm)	Tip / Type / Typ	$M_{a \max}$. (Nm)	Tip / Type / Typ	$M_{a \max}$. (Nm)
PKD A 0290	90	PKD 1390	400	PKD 1490	400	PKD 6390	8200
PKD B 0290	120	PKD G 1390	610	PKD G 1490	610	PKD 7390	8500
PKD C 1290	230	PKD 2390	860	PKD 2490	860	PKD 8390	13000
PKD F 4290	380	PKD 3390	1550	PKD 3490	1550	PKD G 8390	20000
PKD H 5290	660	PKD 4390	2800	PKD 4490	2800	PKD 9390	32000
		PKD 5390	4800	PKD 5490	4800	PKD G 9390	50000

TR

W, IEC VE PAM ADAPTÖRÜ

W kovanlı (serbest giriş millî) redüktörler için geçerli maksimum tahrik gücü, uygun tahvil oranı ve çıkış devrine göre (min-1) W, IEC, PAM seçim tablolarında belirlenmiştir. IEC'li ve PAM'lı redüktörlerde her bir gövde büyüklüğü için DIN EN 50347 standardına göre standart güçler verilir. Ancak maksimum çıkış gücü, tahvil oranlarına göre tablolarda verilmiştir. Eğer W, IEC, PAM seçim tablolarındaki listelenen P1 güç değerlerinden daha fazla bir güç istenirse özel hesaplamalar gerekmektedir. Bu durumda lütfen firmamıza danışınız.

W kovanlı redüktörlerin giriş mili yatakları (rulmanları) düzenli olarak yağlanmalıdır. PA/PF 62-63, PD/PM 62-63, PKD 6390 ve üst gövdeler için her 4000 çalışma saatine göre yaklaşık 20-25 gr gres ile otomatik yağlayıcılar ya da gresölük kullanılarak giriş şaftı yatakları düzenli olarak yağlanmalıdır. Yağlayıcı olarak Petamo GHY 133N önerilir. W kovanlı redüktörlerde yağlamanın yanı sıra redüktörün soğutulmasını iyileştirmek için harici bir fan talep üzerine yapılabilir. Lütfen böyle bir istek için tarafımıza danışınız.

Otomatik yağlayıcı ünitesini IEC adaptör girişli redüktörlerimiz için PA/PF 62-63, PD/PM 62-63, PKD 6390 ve üstü gövde büyüklüklerine bağlanabilmektedir. Otomatik yağlama ünitesi giriş mili üzerindeki rulmanlara kalıcı bir yağlama sağlamaktadır. Redüktör devreye alınmadan önce otomatik yağlayıcı aktive edilmeli ve her 12 ay periyodunda değiştirilmelidir. Bu süre ortalama günlük çalışma süresinin ≤ 8 saat olduğu durumlarda geçerlidir. Günlük çalışma süresi 8 saatin üzerindeki tüm durumlarda otomatik yağlayıcı 6 ayda bir değiştirilmelidir.

Otomatik yağlayıcı içindeki gres $0^{\circ}\text{C} \dots 40^{\circ}$ arasındaki ortam sıcaklığında çalışmaya göre tasarlanmıştır. Eğer ortam sıcaklığı belirtilen standart değerlerden ($0^{\circ}\text{C} \dots 40^{\circ}$) çok uzun süre farklı kalıyorsa özel yağlayıcılar kullanılmalıdır. Bunun gibi durumlar için firmamıza danışınız.

Otomatik yağlayıcı, motor gövde büyüklüğü 160 ve üzeri IEC adaptörlü redüktörlerde, motorun dikey olarak durduğu montaj pozisyonları tarafımızca önerilmez. Bu tarz durumlarda doğrudan motor montajı tavsiye edilir.

Eğer redüktör, motor gövde büyüklüğü 160 ve üzeri IEC adaptörlü ve dikey montaj pozisyonu (M4) kullanılması gerekiyorsa, gerçek çalışma koşulları ile tarafımızca kontrol edilmeli ve onaylanmalıdır.

Montaj pozisyonu M2 olduğu dikey çalışma koşullarında, redüktör üzerindeki bazı sızdırmazlık elemanlarının ömrü azalabilir. Bu gibi durumlarda bakım aralıklarının daha kısa olması öneriyoruz. PA/PF 52, PD/PM 52 PKD 5390'a kadar olan gövde büyüklüğündeki IEC adaptörlü redüktörlerimiz, çalışma ömürleri boyunca özel sızdırmazlığa sahip yağlanmış rulmanlar içerir. Bu rulmanların yağlanması için herhangi bir ilave yağlama ünitesine gerek duyulmaz. Bu gövdeler için önerilen bakım süreleri kullanılmı kılavuzunda belirtilmiştir.

Motor gövde büyüklüğü 63'den 180'e kadar olan IEC adaptörlerin kaplinleri arızaya karşı emniyetli değildir. Ancak motor gövde büyüklüğü 160 ve 180 olan IEC adaptörlerinin kaplinleri otomatik yağlayıcı kullanılıyor ise arızalara karşı emniyetlidir. Motor gövde büyüklüğü 200 olan IEC adaptörlerin kaplinleri arızalara karşı emniyetli değildir. Kaldırıcılar, asansörler ve yaralanmalar vs. gibi kazalara sebep olabilecek özel durumlar için özel önlemler ve özel hesaplamalar gerekebilir. Bu durumlar için PGR'ye danışınız.

Doğrudan monte edilen akuple motorla karşılaştırıldığında IEC adaptöründe ek bir şaft kaplini ve ek rulman yatakları bulunur. Doğrudan monte edilen akuple motorla karşılaştırıldığında IEC bağlantılı redüktörlerde yük kayıpları seviyesi çok daha yüksektir. Sadece teknik avantajlar değil ayrıca fiyat avantajı da sunduğu için PGR olarak akuple motor montajı önerilmektedir.

EN

W, IEC AND PAM ADAPTER

For gear units with W cylinder (with free input shaft), the maximum drive power, proper ratio rate, and output speed (min-1) is given at W, IEC, PAM selection tables. In gear units with IEC and PAM, standard powers are given for each body size according to DIN EN 50347 standard. However, the maximum output power is given in the tables according to the reduction ratio. Special calculations are required if more power is required than the P1 power values which is listed in the W, IEC, PAM selection tables. In this case, please kindly consult our company.

Input shaft bearings of gear units with W cylinder (free input shaft) must be lubricated regularly. Input shaft bearings of PA/PF 62-63, PD/PM 62-63, PKD 6390 and upper cases should be lubricated regularly with 20-25 gr grease using automatic lubricators or a grease fitting for approximately per 4000 operation hours. Petamo GHY 133N is recommended as a lubricant. For gear units with W (free input shaft), an external fan is available on request to improve the cooling of the gear unit. Please consult us for such a request.

The automatic lubricator unit can be connected to with IEC adapter input cases of PA/PF 62-63, PD/PM 62-63, PKD 6390 and upper cases. The automatic lubrication unit provides permanent lubrication to the bearings on the input shaft. Before the gear unit is used, the automatic lubricator must be activated and changed every 12 months. This period is valid when the average daily working time is ≤ 8 hours. In all cases with a daily operating time of more than 8 hours, the automatic lubricator have to be replaced every 6 months.

The grease which is in the automatic lubricator is designed for operation at ambient temperatures between $0^{\circ}\text{C} \dots 40^{\circ}$. If the ambient temperature differs from the specified standard values ($0^{\circ}\text{C} \dots 40^{\circ}$) for too long time, special lubricants have to be used. For such cases, consult our company.

We do not recommend vertical mounting positions for gear units with automatic lubricator, motor body size 160 and above with IEC adapter. In such cases, direct motor mounting is recommended.

If motor body size 160 and above, with IEC adapter and vertical mounting position (M4) must be used, it have to be checked and approved by our company with the actual operating conditions.

In vertical operating conditions where the mounting position is M2, the life of some leakproofing elements on the gear unit may be reduced. In such cases, we recommend shorter maintenance time. Our cases up to PA/PF 52, PD/PM 52 and PKD 5390 with IEC adapter contain bearings which is lubricated and these bearings have special leakproofing for their working life. Additional lubrication unit is not required for the lubrication of these bearings. Recommended maintenance times for these bodies are specified in the user manual.

Couplings of IEC adapters from motor frame sizes 63 to 180 are not fail-safe, they are not safe for faults. However, couplings of IEC adapters with motor body sizes 160 and 180 are fail-safe if automatic lubricator is used. Couplings of IEC adapters with motor body size 200 are not fail-safe. For situations which can lead to accidents like lifters, lifts and injuries etc, you should make special calculations and precautions. For such cases, consult our company. Compared to a directly mounted coupled motor, the IEC adapter has an additional shaft coupling and additional bearings. Compared to a directly mounted coupled motor, the level of load losses is much higher in gear units with IEC connection. Coupled engine installation is recommended as PGR, as it offers not only technical advantages but also price advantage.

DE

W, IEC UND PAM ADAPTER

Bei Getrieben mit freier Antriebswelle, Typ W, gilt die in den Leistungs- und Übersetzungstabellen angegebene maximale Antriebsleistung. Bei Getrieben mit IEC-Anbau, gilt die Normleistung der jeweiligen Baugröße nach DIN EN 50347, maximale jedoch die in den Leistungs- und Übersetzungstabellen angegebene Antriebsleistung. Bei höheren Drehzahlen, als in den Leistungs- und Übersetzungstabellen angegeben, sind eventuell Sondermaßnahmen erforderlich, wir bitten um Anfrage.

Bei Getrieben mit freier Antriebswelle, Typ W, muss die Antriebswellenlagerung ab Größe PA/PF 62-63, PD/PM 62-63, PKD 6390 regelmäßig nachgeschmiert werden. Wir empfehlen, über den vorgesehenen Schmiermippel, das äußere Wälzlager der Antriebswelle ca. pro 4000 Betriebsstunden mit ca. 20-25 g Fett nachzuschmieren. Empfohlene Fettsorte: Petamo GHY 133N. Auf Wunsch ist auch ein Lüfter auf der Antriebswelle zu besseren Getriebekühlung lieferbar. Wir bitten um Anfrage.

Getriebe mit IEC-Adapter ab Größe PA/PF 62-63, PD/PM 62-63, PKD 6390 können standardmäßig einen automatischen Schmierstoffgeber, der das äußere Wälzlager der Antriebswelle mit Schmierstoff versorgt haben. Der Schmierstoffgeber fördert permanent Schmierstoff zum Lager. Vor Inbetriebnahme des Getriebes ist der automatische Schmierstoffgeber zu aktivieren und dann alle 12 Monate auszutauschen. Dies gilt für eine durchschnittliche Laufzeit ≤ 8 Stunden/Tag. Bei längeren Laufzeiten verkürzt sich der Wechsellintervall auf 6 Monate.

Der Schmierstoffgeber ist ausgelegt für normalen Einsatz bei 0°C bis 40°C Umgebungstemperatur. Weicht die Umgebungstemperatur über längere Zeiträume von dem genannten Richtwert ab, sind Sonderschmierstoffgeber zu verwenden, wir bitten um Anfrage.

Der IEC-Adapter bei Motorgröße ≥ 160 mit dem automatischen Schmierstoffgeber ist unter bestimmten Betriebsbedingungen serienmäßig nicht geeignet für senkrechte Anordnungen, bei denen der Motor senkrecht nach oben steht. Hier ist unbedingt Direktanbau des Motors zu empfehlen!

Der senkrechte IEC-Adapter bei Motorbaugröße ≥ 160 (Einbaulage M4) muss durch PGR unter Bekanntgabe der Betriebsbedingungen geprüft und freigegeben werden. Wir bitten um Beachtung.

Bei senkrechten Anordnungen bei denen der Motor nach unten hängt (Einbaulage M2), kann sich die Lebensdauer der Abdichtung verringern. Hier empfehlen wir kürzere Wartungsintervalle. Die kleineren Getriebe mit IEC-Adapter bis PA/PF 52, PD/PM 52 PKD 5390 Getrieben haben speziell abgedichtete, lebensdauer geschmierte Lager, die keine Wartung benötigen.

Die Kupplung des IEC-Adapters für die Motorbaugrößen 63 bis 180 ist nicht durchschlagsicher. (Ausnahme: Bei den IEC Motorbaugrößen 160 und 180, wenn der automatische Schmierstoffgeber vorhanden ist. Ab IEC 200 sind die verwendeten Kupplungen durchschlagsicher). Bei Hubwerken, Aufzügen und anderen Einsatzfällen mit Personengefährdung sind Sondermaßnahmen erforderlich, hier bitten wir um Anfrage.

Der IEC-Adapter hat gegenüber dem Direktanbau des Motors eine zusätzliche Wellenkupplung und zusätzliche Lagerstellen. Hierdurch entstehen gegenüber dem Direktanbau, des Motors höhere Leerlaufverluste. Wir empfehlen den Direktanbau des Motors, da er nicht nur technische Vorteile, sondern auch zusätzlich noch Preisvorteile bietet.

TR	UYGULAMA ALANLARI	EN	APPLICATION AREAS	DE	EINSATZBEREICHE
	UYGULAMALAR		APPLICATIONS		ANWENDUNGEN
	KARIŞTIRICILAR		AGITATORS (MIXERS)		MISCHER
	* Saf Sıvılar * Sıvılar ve Katılar * Değişken Yoğunluklu Sıvılar		* Pure Liquids * Liquids and Solids * Liquids - Variable Density		* Reine Flüssigkeiten * Flüssigkeiten und Feststoffe * Flüssigkeiten mit variabler Dichte
	HAVALANDIRMA TERTİBATLARI		BLOWERS		BELÜFTUNGSVORRICHTUNGEN
	* Santrifüj * Lob * Pervane		* Centrifugal * Lobe * Vane		* Zentrifuge * Lob * Propeller
	MAYALAMA VE DAMITMA		BREWING AND DISTILLING		GÄREN UND DESTILLIEREN
	* Şişeleme Mekanizması * Mayalama Kazanları - Kesintisiz İş * Fırınlr, Ocaklar - Kesintisiz İş * Ezme, Karışım Kazanları - Kesintisiz İş * Ölçü Haznesi - Sık Sık Başlama		* Bottling Machinery * Brew Kettles - Continuous Duty * Cookers - Continuous Duty * Mash Tubs - Continuous Duty * Scale Hopper - Frequent Starts		* Abfüllmechanismus * Gärkessel - Ununterbrochene Arbeit * Öfen, Herde - Ununterbrochener Betrieb * Zerkleinern, Mischkesseln - Ununterbrochenes Arbeiten * Messbehälter - Häufiger Start
	TOPRAK İŞLEME MAKİNELERİ		CLAY WORKING MACHINERY		BODENBEARBEITUNGSMASCHINEN
	* Tuğla Presi * Briket Makinesi * Çamur Karma Makinesi		* Brick Press * Briquette Machine * Pug Mill		* Ziegelpresse * Briketmaschine * Schlammischer
	KOMPRESÖRLER		COMPRESSORS		KOMPRESSOREN
	* Santrifüj * Lob * Çok Pistonlu * Tek Pistonlu		* Centrifugal * Lobe * Reciprocating, Multi-Cylinder * Reciprocating, Single-Cylinder		* Zentrifuge * Lob * Mehrkolben * Einzelkolben
	KONVEYÖRLER - GENEL MAKSATLI		CONVEYORS - GENERAL PURPOSE		FÖRDERER - ALLGEMEINE ZWECKE
	* Üniform Yüklü * Üniform Yüklü Olmayan * Pistonlu veya Karıştırıcı		* Uniformly Loaded or Fed * Not Uniformly fed * Reciprocating Or Shaker		* Uniform geladen * Nicht einheitlich belastet * Mit Kolben oder Mischer
	VİNÇLER		CRANES		KRÄNE
	* Kuru Havuz Ana Kaldırma vinci Yardımcı Vinç Direkli Vinç Döndürme İşi Çekme İşi * Endüstriyel İşi Ana Kaldırma Vinci		* Dry Dock Main Hoist Auxiliary Hoist Boom Hoist Slewing Drive Traction Drive * Industrial Duty Main Hoist		* Trockenbecken Haupthebkran Hilfskran Mastkran Rotationsarbeit Zieharbeit * Industrielle Haupthebwinde
	ASANSÖRLER		ELEVATORS		AUFZÜGE
	* Kova * Santrifuj Boşaltma * Yürüyen Merdiven * Taşıma, Nakliye * Yerçekimi Boşaltım		* Bucket * Centrifugal Discharge * Escalators * Freight * Gravity Discharge		* Eimer * Zentrifugalentladung * Rolltreppe * Abwicklung, Versand * Schwerkraftentladung
	KIRMA MAKİNELERİ		CRUSHER		ZERKLEINERUNGSMASCHINEN
	* Taş ya da Maden		* Stone or Ore		* Stein oder Mine

TR UYGULAMA ALANLARI EN APPLICATION AREAS DE EINSATZBEREICHE

UYGULAMALAR APPLICATIONS ANWENDUNGEN

TARAMA MAKİNELERİ DREDGES SIEBMASCHINEN

- * Kablo Bobinleri
- * Konveyörler
- * Pompalar
- * İstifleme Makineleri
- * Vinçler

- * Cable Reels
- * Conveyors
- * Pumps
- * Stackers
- * Winches

- * Kabelspulen
- * Förderer
- * Pumpen
- * Stapelmaschinen
- * Kräne

EKSTRUDERLER EXTRUDERS EXTRUDER

- * Genel
- * Plastikler
- Değişken Hızlı Tahrik
- Sabit Hızlı Tahrik
- * Kauçuk, Lastik
- Kesintisiz Vida İşlemleri
- Kesintili Vida İşlemleri

- * General
- * Plastics
- Variable Speed Drive
- Fixed Speed Drive
- *Rubber
- Continuous Screw Operation
- Intermittent Screw Operation

- Allgemeines
- * Kunststoffe
- Antrieb mit variabler Geschwindigkeit
- Antrieb mit konstanter Geschwindigkeit
- * Gummi, Kautschuk
- Kontinuierlicher Schraubetrieb
- Intermittierende Schrauboperationen

FANLAR FANS LÜFTER

- * Santrifüj
- * Yüksek Emişli
- * İndüklenmiş Çekiş
- * Endüstriyel ve Maden Ocağı

- * Centrifugal
- * Forced Draft
- * Induced Draft
- * Industrial and Mine

- * Zentrifuge
- * Starke Saugleistung
- * Induzierte Traktion
- * Industrie und Bergbau

BESLEME ÜNİTELERİ FEEDERS FÜTTERUNGSMASCHINEN

- * Palet
- * Bant
- * Disk
- * Pistonlu
- * Vida

- * Apron
- * Belt
- * Disc
- * Reciprocating
- * Screw

- * Palette
- * Band
- * Scheibe
- * Kolben
- * Schrauben

GIDA ENDÜSTRİSİ FOOD INDUSTRY NAHRUNGSMITTELINDUSTRIE

- * Hububat Fırını
- * Hamur Karıştırıcı
- * Kıyma Makinesi
- * Dilimleyici

- * Cereal Cooker
- * Dough Mixer
- * Meat Grinder
- * Slicer

- * Getreideofen
- * Knetmaschine
- * Fleischwolf
- * Schneidemaschine

METAL İŞLEMELERİ METAL MILLS METALL VERARBEITUNG

- * Çekme Makinesi Taşıma ve Ana Tahrik
- * Hammadde İtici
- * Makaslar
- * Tel Çekme
- * Tel Sargı Makinesi
- * Salgı Tezgahı
- Geri Dönmesiz
- Tek Tahrik
- Grup Tahriki

- * Draw Bench Carriage and Main Drive
- * Slab Pushers
- * Shears
- * Wire Drawing
- * Wire Winding Machine
- * Runout Table
- Non-Reversing
- Individual Drives
- Group Drives

- * Traktionsmaschinen-Förderung und Hauptantrieb
- * Rohstoffschieber
- * Schere
- * Drahtziehen
- * Drahtwickelmaschine
- * Sekretbank
- Einzelantrieb ohne Rückkehr
- Gruppenablage

DÖNER İŞLEMELER MILLS (ROTARY TYPE) DREHARBEITEN

- * Küresel ve Çubuk
- Düz Halka Dişli
- Helisel Halka Dişli
- Doğrudan Bağlı
- * Çimento Fırını
- * Kurutucular ve Soğutucular

- * Ball and Rod
- Spur Ring Gear
- Helical Ring Gear
- Direct Connected
- * Cement Kilns
- * Dryers and Coolers

- * Sphärisch und Stab
- Flachringgetriebe
- Schrägverzahntes Hohlrad
- Direkter Anschluss
- * Zementofen
- * Trockner und Kühler

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ANWENDUNGEN

KERESTE ENDÜSTRİSİLUMBER INDUSTRYHOLZINDUSTRIE

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

- * 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

- * Schalenschäler
 - Zuführtrommel
 - Hauptantrieb
- * Förderer
 - Brenner
 - Hauptlast oder Schwerlast
 - Baumstumpf
 - Sägwerk und Förderband
 - Platte
 - Transport
- * Trennsägen
 - Kette
 - Schleppen
- * Entladetrommeln
- * Langes Deck
- * Kloben ziehen und abbiegen
- * Drehvorrichtungen für Baumstufpe
- * Sortiertabelle
- * Transport
 - Kette
 - Kranbahn
- * Tischlaufwerk

KAĞIT İŞLEMELERİPAPER MILLSPAPIERFÜHRUNG

- * Karıştırıcı
- * Saf çözeltiler için 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

- * 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

- * Rührgerät
- * Mischer für reine Lösungen
- * Peeling Tromeln
- * Mechanischer Schäler
- * Schlag - Mahlwerk
- * Richtmaschine
- * Kalandrieren
- * Oberflächenaufrauung
- * Kerbzuführung
- * Beschichtungswalze
- * Förderer
 - Kerbe, Schale, Chemisch
 - Stämme mit dicken Scheiben
- * Schneider
- * Zylinderformen
- * Trockner
 - Papiermaschine
 - Förderertyp
- * Geprägter Presser
- * Extruder
- * Papierrollen
- * Pressen
- * Teigmacher
- * Pumpen

FİLTRELERSCREENSFILTER

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

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

- * Luftwäsche
- * Rotierer - Stein oder Kies
- * Beweglicher Wassereinlass

TR	UYGULAMA ALANLARI	EN	APPLICATION AREAS	DE	EINSATZBEREICHE
	UYGULAMALAR		APPLICATIONS		ANWENDUNGEN
	PLASTİK ENDÜSTRİSİ İLK İŞLEMLER		PLASTIC INDUSTRY PRIMARY PROCESSING		KUNSTSTOFFINDUSTRIE ERSTE AKTIONEN
	* Yoğun İç Karıştırıcılar Harmanlayıcı Kesintisiz Karıştırıcı		* Intensive Internal Mixers Batch Mixers Continuous Mixers		* Intensive interne Mixer Mixer Kontinuierlicher Mischer
	PLASTİK ENDÜSTRİSİ İKİNCİL İŞLEMLER		PLASTIC INDUSTRY SECONDARY PROCESSING		KUNSTSTOFFINDUSTRIE SEKUNDÄRE PROZESSE
	* Hacim Kalıpları * Kaplama * Tabaka * Boru * Ön Plastikleştirme * Rot * Saç, Plaka * Borular		* Blow Molders * Coating * Film * Pipe * Pre-Plasticizers * Rods * Sheet * Tubing		* Volumenformer * Glasur * Schicht * Rohr * Vorplastifizieren * Auswuchten * Haare, Platte * Rohre
	POMPALAR		PUMPS		PUMPEN
	* 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		* Zentrifuge * Bewertung * Kolben Einfachwirkend - 3 oder mehr Zylinder Doppeltwirkend - 2 oder mehr Zylinder * rotierend Übertragungsart Lob Propeller
	KAUÇUK - LASTİK ENDÜSTRİSİ		RUBBER INDUSTRY		KAUTSCHUK - REIFENINDUSTRIE
	* 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 * Artıcı - 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		* Intensive interne Mixer Mixer Kontinuierliche Mischer * Mischprozess 2 weiche Rollen 1 oder 2 gerillte Rollen * Stapelverarbeitung - 2 weiche Walzen * Brecher und Heizung - 2 Walzen, 1 Wellwalze * Brecher - 2 Wellwalzen * Halte-, Fütterungs-, Mischprozess - 2 Rollen * Refiner - 2 Walzen * Kalendrieren
	ATIK SU BOŞALTIM EKİPMANLARI		SEWAGE DISPOSAL EQUIPMENT		AUSRÜSTUNG FÜR ABWASSERENTLEERUNG
	* 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		* Stick Sieb * Chemikalienzufuhrreinheiten * Wasserablaufsieb * Schaumschneider * Langsame oder schnelle Mixer * Sedimentsammler * Verdickungsmittel * Vakuumfilter
	KOMPAKTÖRLER		COMPACTORS		VERDICHTER
	ÇEKTİRMELER - YAVAŞ VE KUVVETLİ		PULLERS - BARGE HAUL		AUFZIEHVORRICHTUNGEN - LANGSAM UND STARK

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ŞEKER ENDÜSTRİSİSUGAR INDUSTRYZUCKERINDUSTRIE

- * Pancar Dilimleme Aleti
- * Kamış Bıçakları
- * Kırma Makineleri

- * Beet Slicer
- * Cane Knives
- * Crushers

- * Rübenschneider
- * Schilfklingen
- * Zerkleinerungsmaschinen

TEKSTİL ENDÜSTRİSİTEXTILE INDUSTRYTEXTILINDUSTRIE

- * Harman Ölçer
- * Kalenderler
- * Şablonlar
- * Kuru Konserveler
- * Boyama Makinesi
- * Dokuma Tezgahları
- * Çamaşır Sıkma Makinesi - Merdane
- * Kaplama
- * Doldurma Makinesi
- * Haşıl Makinesi
- * Halat Yıkama Makinesi
- * Eğirme Makinesi
- * Germe Kurutma Makineleri
- * Yıkama Makineleri
- * Masura Sarıcısı

- * Batcher
- * Calenders
- * Cards
- * Dry Cans
- * Dyeing Machinery
- * Looms
- * Mangle
- * Napper
- * Pads
- * Sishers
- * Soapers
- * Spinners
- * Tenter Frames
- * Washers
- * Winders

- * Dreschmesser
- * Kalendrieren
- * Vorlagen
- * Trockenkonserven
- * Färbemaschine
- * Webstühle
- * Waschmaschine - Roller
- * Glasur
- * Abfüllmaschine
- * Kalibriemaschine
- * Seilwaschmaschine
- * Spinnmaschine
- * Stretch-Trocknungsmaschinen
- * Waschmaschinen
- * Spuler

DAMPERLİ ARAÇLARCAR DUMPERSDIPPER FAHRZEUGEÇEKİCİ ARAÇLARCAR PULLERSTURMFahrzeugeARITICILARCLARIFIERSREINIGUNGSMASCHINENKONSERVE DOLUM MAKİNELERİCAN FILLING MACHINESDOSENFÜLLMASCHINEN

REDÜKTÖR TİPİ / GEAR TYPE / GETRIEBETYP

Ayak montajlı
Foot mounted
Fußbefestigung

PKD A 0290 ... H 5290	= İki kademeli, helisel konik dişli redüktör Double reduction, Helical bevel gearboxes Zweistufiges, Kegelstirnradgetriebe
PKD 1390 ... PKD G 9390	= Üç kademeli, helisel konik dişli redüktör Triple reduction, Helical bevel gearboxes Dreistufiges, Kegelstirnradgetriebe
PKD 1490 ... PKD 5490	= Dört kademeli, helisel konik dişli redüktör Quadruple reduction, Helical bevel gearboxes Vierstufiges, Kegelstirnradgetriebe
PKD 6390/32 ... PKD G 9390/62	= Beş kademeli, helisel konik dişli redüktör Quintuple reduction, Helical bevel gearboxes Fünfstufiges, Kegelstirnradgetriebe

Gövdeden montajlı
Case mounted
Gehäuse Flanschmontage

PKD A 0290 ... PKD H 5290	= İki kademeli, helisel konik dişli redüktör Double reduction, Helical bevel gearboxes Zweistufiges, Kegelstirnradgetriebe
PKD 1390 ... PKD G 9390	= Üç kademeli, helisel konik dişli redüktör Triple reduction, Helical bevel gearboxes Dreistufiges, Kegelstirnradgetriebe
PKD 1490 ... PKD 5490	= Dört kademeli, helisel konik dişli redüktör Quadruple reduction, Helical bevel gearboxes Vierstufiges, Kegelstirnradgetriebe
PKD 6390/32 ... PKD G 9390/62	= Beş kademeli, helisel konik dişli redüktör Quintuple reduction, Helical bevel gearboxes Fünfstufiges, Kegelstirnradgetriebe

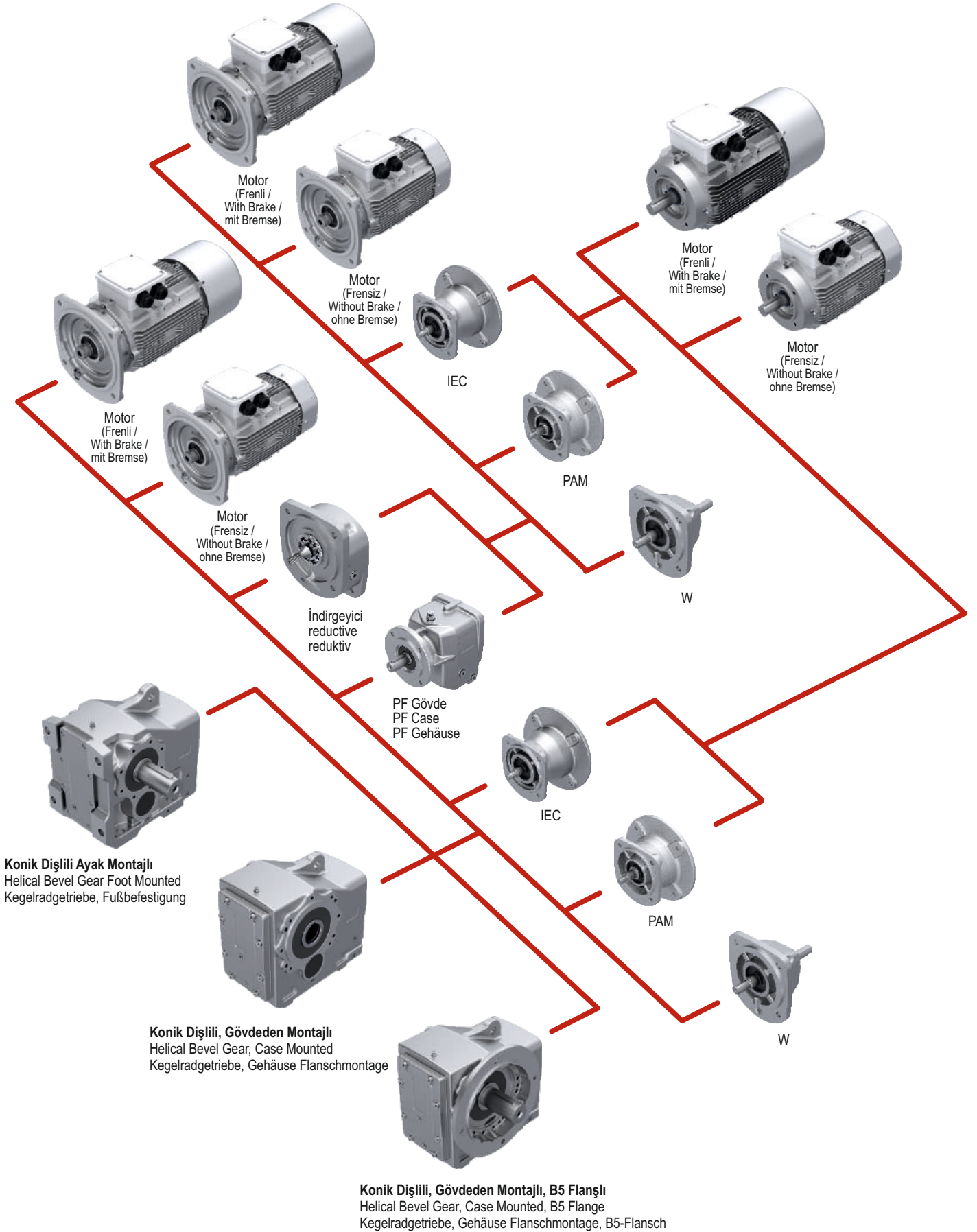
Gövdeden montajlı, B5 flanşlı
Case mounted, Flange B5
Gehäuse Flanschmontage, Flansch B5

PKD A 0290 ... PKD H 5290	= İki kademeli, helisel konik dişli redüktör Double reduction, Helical bevel gearboxes Zweistufiges, Kegelstirnradgetriebe
PKD 1390 ... PKD G 9390	= Üç kademeli, helisel konik dişli redüktör Triple reduction, Helical bevel gearboxes Dreistufiges, Kegelstirnradgetriebe
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PKD 6390/32 ... PKD G 9390/62	= Beş kademeli, helisel konik dişli redüktör Quintuple reduction, Helical bevel gearboxes Fünfstufiges, Kegelstirnradgetriebe

REDÜKTÖR DİZAYNI / GEAR DESIGN / GETRIEBE - KURZZEICHEN

TMA...	= Ayak montajlı, Tek mil çıkışlı Foot mounted, Solid shaft Fußbefestigung, einseitige Abtriebswelle
DA...	= Ayak montajlı, Delik milli Foot mounted, Hollow shaft Fußbefestigung, Hohlwelle
ÇMA...	= Ayak montajlı, Çift mil çıkışlı, Foot mounted, Solid shaft on both sides. Fußbefestigung, doppelseitige Abtriebswelle
DA/KS...	= Ayak montajlı, Delik milli, Konik sıkırtmalı Foot mounted, Hollow shaft, Shrink disc connector Fußbefestigung, Hohlwelle, Schrumpfscheibe
TMA/B5...	= Ayak montajlı, Tek mil çıkışlı, B5 flanşlı Foot mounted, Solid shaft, Flange B5 Fußbefestigung, einseitige Abtriebswelle, B5-Flansch
DA/B5...	= Ayak montajlı, Delik milli, B5 flanşlı Foot mounted, Hollow shaft, Flange B5 Fußbefestigung, Hohlwelle, B5-Flansch
DA/KS-B5...	= Ayak montajlı, Delik milli, Konik sıkırtmalı, B5 flanşlı Foot mounted, Hollow shaft, Shrink disc connector, Flange B5 Fußbefestigung, Hohlwelle, Schrumpfscheibe, B5-Flansch
TMA/B14...	= Ayak montajlı, Tek mil çıkışlı, B14 flanşlı Foot mounted, Solid shaft, Flange B14 Fußbefestigung, einseitige Abtriebswelle, B14-Flansch
DA/B14...	= Ayak montajlı, Delik milli, B14 flanşlı Foot mounted, Hollow shaft, Flange B14 Fußbefestigung, Hohlwelle, B14-Flansch
ÇMA/B14...	= Ayak montajlı, Çift mil çıkışlı, B14 flanşlı Foot mounted, Solid shaft on both sides, Flange B14 Fußbefestigung, doppelseitige Abtriebswelle, B14-Flansch
DA/KS-B14...	= Ayak montajlı, Delik milli, Konik sıkırtmalı, B14 flanşlı Foot mounted, Hollow shaft, Shrink disc connector, Flange B14 Fußbefestigung, Hohlwelle, Schrumpfscheibe, B14-Flansch
DG/B14...	= Gövdeden montajlı, Delik milli, B14 flanşlı Case mounted, Hollow shaft, Flange B14 Gehäuse Flanschmontage, Hohlwelle, B14-Flansch
DG/KS-B14...	= Gövdeden montajlı, Delik milli, Konik sıkırtmalı, B14 flanşlı Case mounted, Hollow shaft, Shrink disc connector, Flange B14 Gehäuse Flanschmontage, Hohlwelle, Schrumpfscheibe, B14-Flansch
DG/TK...	= Gövdeden montajlı, Delik milli, Tork kolu Case mounted, Hollow shaft, Torque arm Gehäuse Flanschmontage, Hohlwelle, Drehmomentstütze
DG/KS-TK...	= Gövdeden montajlı, Delik milli, Konik sıkırtmalı, Tork kolu Case mounted, Hollow shaft, Shrink disc connector, Torque arm Gehäuse Flanschmontage, Hohlwelle, Schrumpfscheibe, Drehmomentstütze
DG/TKP-B14...	= Gövdeden montajlı, Delik milli, Tork kolu platformu B14 flanşlı Case mounted, Hollow shaft, Torque arm platform, Flange B14 Gehäuse Flanschmontage, Hohlwelle, Drehmomentstütze Plattform, B14-Flansch
DG/KS-TKP-B14...	= Gövdeden montajlı, Delik milli, Konik sıkırtmalı, Tork kolu platformu, B14 flanşlı Case mounted, Hollow shaft, Shrink disc connector Torque arm platform, Flange B14 Gehäuse Flanschmontage, Hohlwelle, Schrumpfscheibe, Drehmomentstütze Plattform, B14-Flansch
TMG/B5...	= Gövdeden montajlı, Tek mil çıkışlı, B5 flanşlı Case mounted, Solid shaft, Flange B5 Gehäuse Flanschmontage, einseitige Abtriebswelle, B5-Flansch
DG/B5...	= Gövdeden montajlı, Delik milli, B5 flanşlı Case mounted, Hollow shaft, Flange B5 Gehäuse Flanschmontage, Hohlwelle, B5-Flansch
DG/KS-B5...	= Gövdeden montajlı, Delik milli, Konik sıkırtmalı, B5 flanşlı Case mounted, Hollow shaft, Shrink disc connector, Flange B5 Gehäuse Flanschmontage, Hohlwelle, Schrumpfscheibe, B5-Flansch
TMG/B14...	= Gövdeden montajlı, Tek mil çıkışlı, B14 flanşlı Case mounted, Solid shaft, Flange B14 Gehäuse Flanschmontage, einseitige Abtriebswelle, B14-Flansch

Giriş Aksamları Input Options Eingabeoptionen	Motor Motor Motor	Kutup Numarası Number of Poles Anzahl der Pole	Motor Seçenekleri Motor Options Motoroptionen
<p>W = Motorsuz girişli redüktörler için aksam</p> <p>With free input shaft</p> <p>Bei Getrieben mit freier Antriebswelle</p>	<p>Üç fazlı motor Motor boyutu 63 - 315</p> <p>Three phase motor Motor size 63 - 315</p> <p>Drehstrommotor Motorgröße 63 - 315</p>	<p>2 = 2 Kutuplu 2 Poles 2 Pole</p> <p>4 = 4 Kutuplu 4 Poles 4 Pole</p> <p>6 = 6 Kutuplu 6 Poles 6 Pole</p> <p>4 - 2 = 1:2 oranında hız değiştirici dahlander bağlantısı Pole changing 1:2 Dahlander connection Geschwindigkeitswechsler DAHLANDER</p> <p>8 - 2 = 1:4 oranında hız değiştirici ayrılmış sarmal dizilişli Pole changing 1:4 Separate windings Geschwindigkeitswechsler- getrennte spiralförmige Anordnung</p> <p>Diğer kutup kombinasyonları istendiğinde karşılanacaktır</p> <p>Other pole combinations on request</p> <p>Andere Polkombinationen sind auf Anfrage erhältlich</p>	<p>BRE = Frenli With brake Mit Bremse</p> <p>EF = Tek fazlı, fanlı Single phase, Separate fan Einphasig, mit Lüfter</p> <p>ZF = Çift fazlı, fanlı Double phase, Separate fan, Zweiphasig, mit Lüfter</p> <p>DF = Üç fazlı, fanlı Separate fan, three phase Dreiphasig, mit Lüfter</p> <p>IG = Enkoderli With encoder Mit encoder</p> <p>KK/FK = Debriyajlı With clutches Mit Kupplung</p> <p>SR = Toza karşı korumalı fren Brake dust - proof Staubgeschützte Bremse</p> <p>TF = Termistörlü Thermistor Mit Thermistor</p> <p>RG = Korozyon korumalı frenli Brake corrosion protected Mit Korrosionsschutzbremse</p> <p>WU = Yumuşak kalkışlı rotor Soft start rotor Sanftanlaufrotor</p> <p>RLS = Geri dönmeye karşı kilitli Backstop Rücklaufsperr</p> <p>TW = Isıya duyarlı Thermal trip Wärmeempfindliche</p> <p>HL = Manuel frenli motor Brake motor with hand release Motor mit Handbremse</p> <p>F = Extra Fan Auxiliary Fan Fremdlüfter</p>
<p>IEC = DIN 42677'ye göre standart motorlar için aksamlar</p> <p>For assembly with IEC standard motors acc. to DIN 42677</p> <p>Bei Getrieben mit IEC-Anbau gilt die Normleistung der jeweiligen Baugröße nach DIN 42677,</p>	<p>EExell = Patlamaya karşı güvenliği artırılmış üç fazlı motor</p> <p>Explosion proof three phase motor increased safety</p> <p>Drehstrommotor mit erhöhter Explosionssicherheit</p>		
<p>PAM = DIN 42677'ye göre standart motorlar için aksamlar</p> <p>For assembly with PAM standard motors acc. to DIN 42677</p> <p>Bei Getrieben mit PAM-Anbau gilt die Normleistung der jeweiligen Baugröße nach DIN 42677,</p>			
<p>T = Turbo kaplin</p> <p>Turbo coupling</p> <p>Turbokupplung</p>			



TR MEVCUT DİZAYNLARA GENEL BAKIŞ

EN OVERVIEW TO AVAILABLE DESIGNS

DE ÜBERSICHT AKTUELLE DESIGNS

Kısaltmalar Abbrev. Abkürzungen	Anlamı Meaning Bedeutung	Helisel Konik Dişli Redüktör Helical Bevel Gear Units Kegelstirnradgetriebe
DG/B5	Gövdeden montajlı, Delik milli, B5 flanşlı / Case mounted, Hollow shaft, Flange B5 / Gehäuse Flanschmontage, Hohlwelle, B5-Flansch	✓ (2)
DA	Ayak montajlı, Delik milli, / Foot mounted, Hollow shaft / Fußbefestigung, Hohlwelle	✓
DA/B5	Ayak montajlı, Delik milli, B5 flanşlı / Foot mounted, Hollow shaft, Flange B5 / Fußbefestigung, Hohlwelle, B5-Flansch	✓ (1)
DA/B14	Ayak montajlı, Delik milli, B14 flanşlı / Foot mounted, Hollow shaft, Flange B14 / Fußbefestigung, Hohlwelle, B14-Flansch	✓
DG/B14	Gövdeden montajlı, Delik milli, B14 flanşlı / Case mounted, Hollow shaft, Flange B14 / Gehäuse Flanschmontage, Hohlwelle, B14-Flansch	✓ (2)
DG/TK	Gövdeden montajlı, Delik milli, Tork kolu / Case mounted, Hollow shaft, Torque arm / Gehäuse Flanschmontage, Hohlwelle, Drehmomentstütze	✓ (1) (2)
DG/TKP-B14	Gövdeden montajlı, Delik milli, Tork kolu platformu, B14 flanşlı / Case mounted, Hollow shaft, Torque arm console, Flange B14 / Gehäuse Flanschmontage, Hohlwelle, Drehmomentstütze, B14-Flansch	✓ (2)
Ç	Çektirme Kiti / Puller Kit / Befestigungsbausatz	✓
DIN 5480	Kayıcı delik milli DIN 5480 / Splined hollow shaft, DIN 5480 / Hohlwelle mit DIN 5480	✓
KK	Koruma kapaklı / Cover as a touch guard / Mit Schutzdeckel	✓
IEC	IEC adaptörü / Adapter for mounting B5 IEC standard motors / IEC-Adapter	✓
ÇMA	Ayak montajlı, Çift mil çıkışlı / Foot mounted, Solid shaft on both sides / Fußbefestigung, doppelseitige Abtriebswelle	✓
B	Kilit / Integrated backstop / Rücklaufsperr	✓
WB	W kilidi / Backstop in W adapter / W-Sperre	✓
KS	Konik sıkırma / Hollow shaft with shrink disc / Schrumpfscheibe	✓
GKS	Güçlendirilmiş konik sıkırma / Hollow shaft with reinforced shrink disc / Verstärkte Schrumpfscheibe	✓
TMG/B5	Gövdeden montajlı, Tek mil çıkışlı, B5 flanşlı / Case mounted, Solid shaft, Flange B5 / Gehäuse Flanschmontage, einseitige Abtriebswelle, B5-Flansch	✓ (2)
GR	Güçlendirilmiş rulman / Reinforced bearing / Verstärktes Lager	✓
GB5	Güçlendirilmiş B5 Flanş / Agitator design / Verstärkter B5-Flansch	✓
TMA/B5	Ayak montajlı, Tek mil çıkışlı, B5 flanşlı / Foot mounted, Solid shaft, Flange B5 / Fußbefestigung, einseitige Abtriebswelle, B5-Flansch	✓
TMA	Ayak montajlı, Tek mil çıkışlı / Foot mounted, Solid shaft / Fußbefestigung, einseitige Abtriebswelle	✓
TMG/B14	Gövdeden montajlı, Tek mil çıkışlı, B14 flanşlı / Case Mounted, Solid shaft, Flange B14 / Gehäuse Flanschmontage, einseitige Abtriebswelle, B14-Flansch	✓ (2)
W	W kovani / Free input shaft / W-Adapter	✓
PAM	PAM adaptörü / PAM Adapter / PAM Adapter	✓

✓ 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) These designs exist for PKD 7390 and smaller cases
2) This number shows, there are threaded holes at the bottom of gear unit but these are not used for installation

✓ Vorhandene Designs sind mit einem Häkchen gekennzeichnet.

1-) Erhältlich bis PKD 7390 (im Lieferumfang enthalten).
2-) An der Unterseite des Gehäuses befinden sich zusätzliche Gewindebohrungen. Diese Bohrungen dienen nicht der Befestigung des Getriebes.

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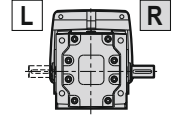
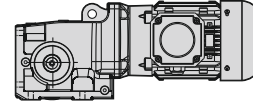
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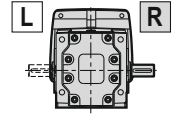
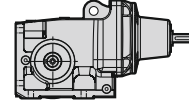
1) **PKD B 0290... TMA - 63 M / 4** **R**

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



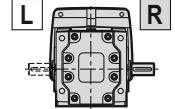
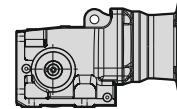
PKD B 0290... TMA - W **R**

Tek mil çıkışlı, Ayak montajlı, İki kademeli, Helisel konik dişlili, W kovanlı redüktör
Solid shaft, Foot mounted, Double reduction, Helical bevel gear unit, With W adapter
Einseitige Abtriebswelle, Fußbefestigung, zweistufig, Kegelsstirnradgetriebe, Mit W-Adapter



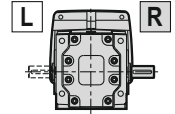
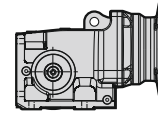
PKD B 0290... TMA - IEC 63 **R**

Tek mil çıkışlı, Ayak montajlı, İki kademeli, Helisel konik dişlili, IEC adaptörlü redüktör
Solid shaft, Foot mounted, Double reduction, Helical bevel gear unit, With IEC adapter
Einseitige Abtriebswelle, Fußbefestigung, zweistufig, Kegelsstirnradgetriebe, Mit IEC-adapter



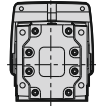
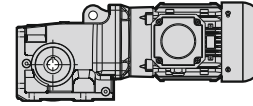
PKD B 0290... TMA - PAM 63 **R**

Tek mil çıkışlı, Ayak montajlı, İki kademeli, Helisel konik dişlili, PAM adaptörlü redüktör
Solid shaft, Foot mounted, Double reduction, Helical bevel gear unit, With PAM adapter
Einseitige Abtriebswelle, Fußbefestigung, zweistufig, Kegelsstirnradgetriebe, Mit PAM adapter



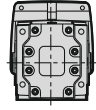
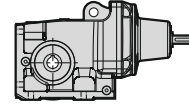
2) **PKD B 0290... DA - 63 M / 4**

Delik millî, Ayak montajlı, İki kademeli, Helisel konik dişlili, Motorlu redüktör
Hollow shaft, Foot mounted, Double reduction, Helical bevel gear unit, With motor
Hohlwelle, Fußbefestigung, zweistufig, Kegelsstirnradgetriebe, Mit motor



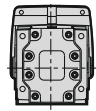
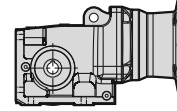
PKD B 0290... DA - W

Delik millî, Ayak montajlı, İki kademeli, Helisel konik dişlili, W kovanlı redüktör
Hollow shaft, Foot mounted, Double reduction, Helical bevel gear unit, With W adapter
Hohlwelle, Fußbefestigung, zweistufig, Kegelsstirnradgetriebe, Mit W-adapter



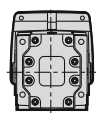
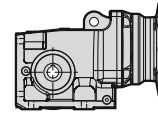
PKD B 0290... DA - IEC 63

Delik millî, Ayak montajlı, İki kademeli, Helisel konik dişlili, IEC adaptörlü redüktör
Hollow shaft, Foot mounted, Double reduction, Helical bevel gear unit, With IEC adapter
Hohlwelle, Fußbefestigung, zweistufig, Kegelsstirnradgetriebe, Mit IEC-Adapter



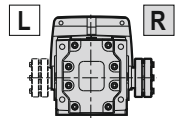
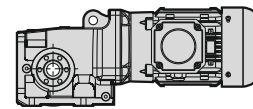
PKD B 0290... DA - PAM 63

Delik millî, Ayak montajlı, İki kademeli, Helisel konik dişlili, PAM adaptörlü redüktör
Hollow shaft, Foot mounted, Double reduction, Helical bevel gear unit, With PAM adapter
Hohlwelle, Fußbefestigung, zweistufig, Kegelsstirnradgetriebe, Mit PAM adapter



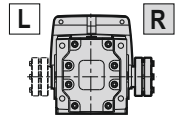
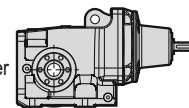
3) **PKD B 0290... DA / KS - 63 M / 4** **R**

Delik millî, Ayak montajlı, Konik sıkırtmalı, İki kademeli, Helisel konik dişlili, Motorlu redüktör
Hollow shaft, Foot mounted, Shrink disc connector, Double reduction, Helical bevel gear unit, With motor
Hohlwelle, Fußbefestigung, Schrumpfscheibe, zweistufig, Kegelsstirnradgetriebe, Mit motor



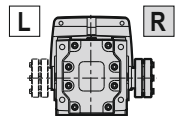
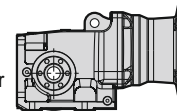
PKD B 0290... DA / KS - W **R**

Delik millî, Ayak montajlı, Konik sıkırtmalı, İki kademeli, Helisel konik dişlili, W kovanlı redüktör
Hollow shaft, Foot mounted, Shrink disc connector, Double reduction, Helical bevel gear unit, With W adapter
Hohlwelle, Fußbefestigung, Schrumpfscheibe, zweistufig, Kegelsstirnradgetriebe, Mit W-adapter



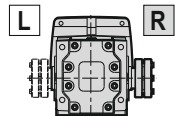
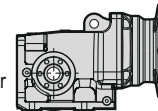
PKD B 0290... DA / KS - IEC 63 **R**

Delik millî, Ayak montajlı, Konik sıkırtmalı, İki kademeli, Helisel konik dişlili, IEC adaptörlü redüktör
Hollow shaft, Foot mounted, Shrink disc connector, Double reduction, Helical bevel gear unit, With IEC adapter
Hohlwelle, Fußbefestigung, Schrumpfscheibe, zweistufig, Kegelsstirnradgetriebe, Mit IEC-Adapter



PKD B 0290... DA / KS - PAM 63 **R**

Delik millî, Ayak montajlı, Konik sıkırtmalı, İki kademeli, Helisel konik dişlili, PAM adaptörlü redüktör
Hollow shaft, Foot mounted, Shrink disc connector, Double reduction, Helical bevel gear unit, With PAM adapter
Hohlwelle, Fußbefestigung, Schrumpfscheibe, zweistufig, Kegelsstirnradgetriebe, PAM Adapter



Not : L ve R çıkış yönünü göstermektedir. / Note: L and R shows that output direction. / Hinweis: L und R geben die Ausgangsrichtung an.

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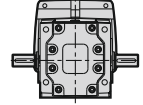
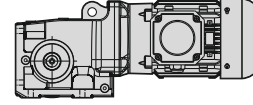
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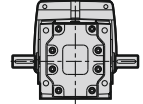
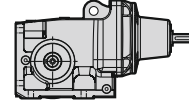
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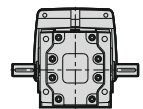
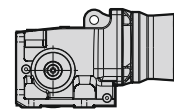
4) PKD B 0290... ÇMA - 63 M / 4

Çift mil çıkışlı, Ayak montajlı, İki kademeli, Helisel konik dişli, Motorlu redüktörSolid shaft on both sides, Foot mounted, Double reduction, Helical bevel gear unit, With motor
Doppelseitige Abtriebswelle, Fußbefestigung, zweistufig, Kegelmotorradgetriebe, Mit motor

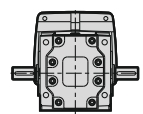
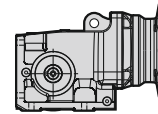
PKD B 0290... ÇMA - W

Çift mil çıkışlı, Ayak montajlı, İki kademeli, Helisel konik dişli, W kovanlı redüktörSolid shaft on both sides, Foot mounted, Double reduction, Helical bevel gear unit, With W adapter
Doppelseitige Abtriebswelle, Fußbefestigung, zweistufig, Kegelmotorradgetriebe, Mit W-Adapter

PKD B 0290... ÇMA - IEC 63

Çift mil çıkışlı, Ayak montajlı, İki kademeli, Helisel konik dişli, IEC adaptörlü redüktörSolid shaft on both sides, Foot mounted, Double reduction, Helical bevel gear unit, With IEC adapter
Doppelseitige Abtriebswelle, Fußbefestigung, zweistufig, Kegelmotorradgetriebe, Mit IEC-Adapter

PKD B 0290... ÇMA - PAM 63

Çift mil çıkışlı, Ayak montajlı, İki kademeli, Helisel konik dişli, PAM adaptörlü redüktörSolid shaft on both sides, Foot mounted, Double reduction, Helical bevel gear unit, With PAM adapter
Doppelseitige Abtriebswelle, Fußbefestigung, zweistufig, Kegelmotorradgetriebe, Mit PAM Adapter**Not : L ve R çıkış yönünü göstermektedir.**

Note: L and R shows that output direction.

Hinweis: L und R geben die Ausgangsrichtung an.

TR

ÜRÜNLERİMİZ

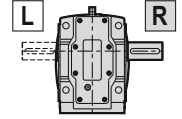
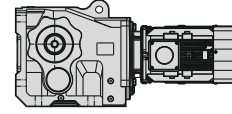
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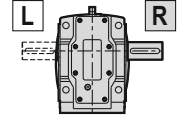
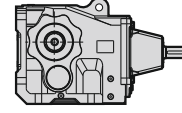
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UNSERE PRODUKTE

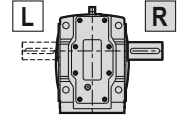
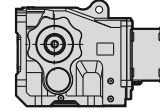
- 1) **PKD 1390... TMA - 63 M / 4** R
Tek mil çıkışlı, Ayak montajlı, Üç kademeli, Helisel konik dişli, Motorlu redüktör
 Solid shaft, Foot mounted, Triple reduction, Helical bevel gear unit, With motor
 Einseitige Abtriebswelle, Fußbefestigung, dreistufig, Kegelsstirnradgetriebe, Mit motor



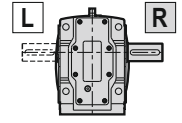
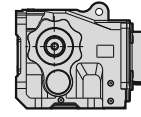
- PKD 1390... TMA - W** R
Tek mil çıkışlı, Ayak montajlı, Üç kademeli, Helisel konik dişli, W kovanlı redüktör
 Solid shaft, Foot mounted, Triple reduction, Helical bevel gear unit, With W adapter
 Einseitige Abtriebswelle, Fußbefestigung, dreistufig, Kegelsstirnradgetriebe, Mit W-Adapter



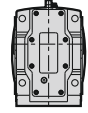
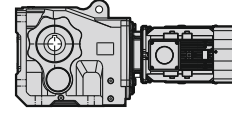
- PKD 1390... TMA - IEC 63** R
Tek mil çıkışlı, Ayak montajlı, Üç kademeli, Helisel konik dişli, IEC adaptörlü redüktör
 Solid shaft, Foot mounted, Triple reduction, Helical bevel gear unit, With IEC adapter
 Einseitige Abtriebswelle, Fußbefestigung, dreistufig, Kegelsstirnradgetriebe, Mit IEC-adapter



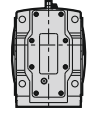
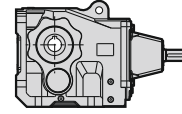
- PKD 1390... TMA - PAM 63** R
Tek mil çıkışlı, Ayak montajlı, Üç kademeli, Helisel konik dişli, PAM adaptörlü redüktör
 Helical bevel gear unit, Solid shaft, Foot mounted, Triple reduction, With PAM adapter
 Einseitige Abtriebswelle, Fußbefestigung, dreistufig, Kegelsstirnradgetriebe, Mit PAM adapter



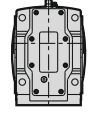
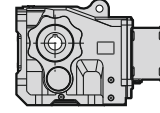
- 2) **PKD 1390... DA - 63 M / 4**
Delik millî, Ayak montajlı, Üç kademeli, Helisel konik dişli, Motorlu redüktör
 Hollow shaft, Foot mounted, Triple reduction, Helical bevel gear unit, With motor
 Hohlwelle, Fußbefestigung, dreistufig, Kegelsstirnradgetriebe, Mit motor



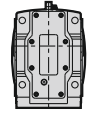
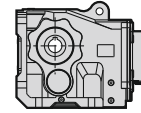
- PKD 1390... DA - W**
Delik millî, Ayak montajlı, İki kademeli, Helisel konik dişli, W kovanlı redüktör
 Hollow shaft, Foot mounted, Double reduction, Helical bevel gear unit, With W adapter
 Hohlwelle, Fußbefestigung, dreistufig, Kegelsstirnradgetriebe, Mit W-Adapter



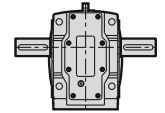
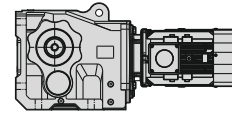
- PKD 1390... DA - IEC 63**
Delik millî, Ayak montajlı, Üç kademeli, Helisel konik dişli, IEC adaptörlü redüktör
 Hollow shaft, Foot mounted, Triple reduction, Helical bevel gear unit, With IEC adapter
 Hohlwelle, Fußbefestigung, dreistufig, Kegelsstirnradgetriebe, Mit IEC-adapter



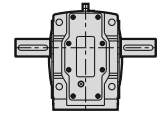
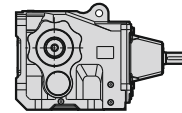
- PKD 1390... DA - PAM 63**
Delik millî, Ayak montajlı, Üç kademeli, Helisel konik dişli, PAM adaptörlü redüktör
 Hollow shaft, Foot mounted, Triple reduction, Helical bevel gear unit, With PAM adapter
 Hohlwelle, Fußbefestigung, dreistufig, Kegelsstirnradgetriebe, Mit PAM adapter



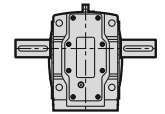
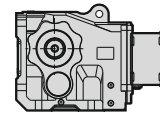
- 3) **PKD 1390... ÇMA - 63 M / 4**
Çift mil çıkışlı, Ayak montajlı, Üç kademeli, Helisel konik dişli, Motorlu redüktör
 Solid shaft on both sides, Foot mounted, Triple reduction, Helical bevel gear unit, With motor
 Doppelseitige Abtriebswelle, Fußbefestigung, dreistufig, Kegelsstirnradgetriebe, Mit motor



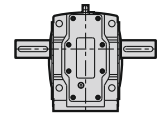
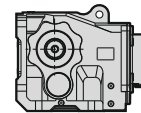
- PKD 1390... ÇMA - W**
Çift mil çıkışlı, Ayak montajlı, Üç kademeli, Helisel konik dişli, W kovanlı redüktör
 Solid shaft on both sides, Foot mounted, Triple reduction, Helical bevel gear unit, With W adapter
 Doppelseitige Abtriebswelle, Fußbefestigung, dreistufig, Kegelsstirnradgetriebe, Mit W-Adapter



- PKD 1390... ÇMA - IEC 63**
Çift mil çıkışlı, Ayak montajlı, Üç kademeli, Helisel konik dişli, IEC adaptörlü redüktör
 Solid shaft on both sides, Foot mounted, Triple reduction, Helical bevel gear unit, With IEC adapter
 Doppelseitige Abtriebswelle, Fußbefestigung, dreistufig, Kegelsstirnradgetriebe, Mit IEC-adapter



- PKD 1390... ÇMA - PAM 63**
Çift mil çıkışlı, Ayak montajlı, Üç kademeli, Helisel konik dişli, PAM adaptörlü redüktör
 Solid shaft on both sides, Foot mounted, Triple reduction, Helical bevel gear unit, With PAM adapter
 Doppelseitige Abtriebswelle, Fußbefestigung, dreistufig, Kegelsstirnradgetriebe, Mit PAM adapter



Not : L ve R çıkış yönünü göstermektedir. / Note : L and R shows that output direction. / Hinweis : L und R geben die Ausgangsrichtung an.

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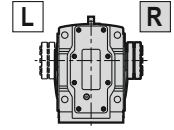
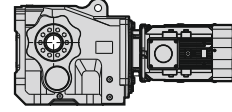
OUR PRODUCTS

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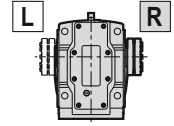
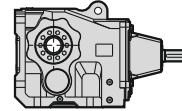
UNSERE PRODUKTE

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

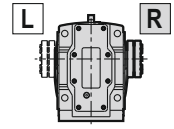
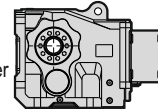
Delik millî, Ayak montajlı, Konik sıkırmalı, Üç kademeli, Helisel konik dişlili, Motorlu redüktör
Hollow shaft, Foot mounted, Shrink disc connector, Triple reduction, Helical bevel gear unit, With motor
Hohlwelle, Fußbefestigung, Schrumpfscheibe, dreistufig, Kegelstirnradgetriebe, Mit motor

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

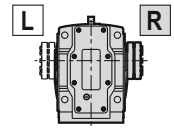
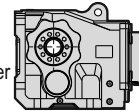
Delik millî, Ayak montajlı, Konik sıkırmalı, Üç kademeli, Helisel konik dişlili, W kovanlı redüktör
Hollow shaft, Foot mounted, Shrink disc connector, Triple reduction, Helical bevel gear unit, With W adapter
Hohlwelle, Fußbefestigung, Schrumpfscheibe, dreistufig, Kegelstirnradgetriebe, Mit W-Adapter

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

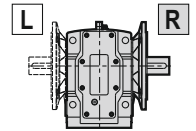
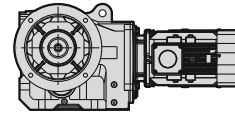
Delik millî, Ayak montajlı, Konik sıkırmalı, Üç kademeli, Helisel konik dişlili, IEC adaptörlü redüktör
Hollow shaft, Foot mounted, Shrink disc connector, Triple reduction, Helical bevel gear unit, With IEC adapter
Hohlwelle, Fußbefestigung, Schrumpfscheibe, dreistufig, Kegelstirnradgetriebe, Mit IEC-adapter

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

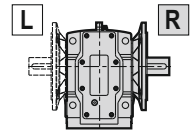
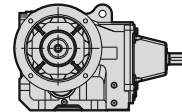
Delik millî, Ayak montajlı, Konik sıkırmalı, Üç kademeli, Helisel konik dişlili, PAM adaptörlü redüktör
Hollow shaft, Foot mounted, Shrink disc connector, Triple reduction, Helical bevel gear unit, With PAM adapter
Hohlwelle, Fußbefestigung, Schrumpfscheibe, dreistufig, Kegelstirnradgetriebe, Mit PAM adapter

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

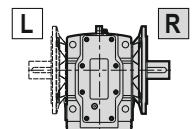
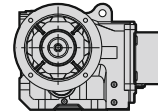
Tek mil çıkışlı, Ayak montajlı, B5 flanşlı, Üç kademeli Helisel konik dişlili, Motorlu redüktör
Solid shaft, Foot mounted, Flange B5, Triple reduction, Helical bevel gear unit, With motor
Einseitige Abtriebswelle, Fußbefestigung, B5 Flansch, dreistufig, Kegelstirnradgetriebe, Mit motor

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

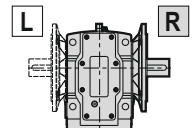
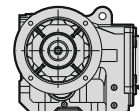
Tek mil çıkışlı, Ayak montajlı, B5 flanşlı, Üç kademeli, Helisel konik dişlili, W kovanlı redüktör
Solid shaft, Foot mounted, Flange B5, Triple reduction, Helical bevel gear unit, With W adapter
Einseitige Abtriebswelle, Fußbefestigung, B5 Flansch, dreistufig, Kegelstirnradgetriebe, Mit W-Adapter

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

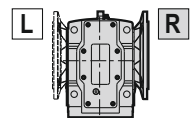
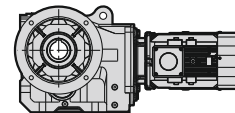
Tek mil çıkışlı, Ayak montajlı, B5 flanşlı, Üç kademeli, Helisel konik dişlili, IEC adaptörlü redüktör
Solid shaft, Foot mounted, Flange B5, Triple reduction, Helical bevel gear unit, With IEC adapter
Einseitige Abtriebswelle, Fußbefestigung, B5 Flansch, dreistufig, Kegelstirnradgetriebe, Mit IEC-adapter

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

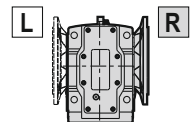
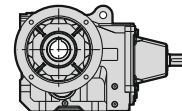
Tek mil çıkışlı, Ayak montajlı, B5 flanşlı, Üç kademeli, Helisel konik dişlili, PAM adaptörlü redüktör
Solid shaft, Foot mounted, Flange B5, Triple reduction, Helical bevel gear unit, With PAM adapter
Einseitige Abtriebswelle, Fußbefestigung, B5 Flansch, dreistufig, Kegelstirnradgetriebe, Mit PAM adapter

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

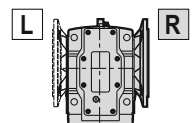
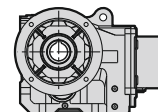
Delik millî, Ayak montajlı, B5 flanşlı, Üç kademeli, Helisel konik dişlili, Motorlu redüktör
Helical bevel gear unit, Hollow shaft, Foot mounted, Flange B5, Triple reduction, With motor
Hohlwelle, Fußbefestigung, B5 Flansch, dreistufig, Kegelstirnradgetriebe, Mit motor

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

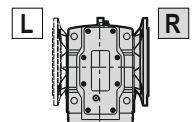
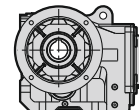
Delik millî, Ayak montajlı, B5 flanşlı, Üç kademeli, Helisel konik dişlili, W kovanlı redüktör
Helical bevel gear unit, Hollow shaft, Foot mounted, Flange B5, Triple reduction, With W adapter
Hohlwelle, Fußbefestigung, B5 Flansch, dreistufig, Kegelstirnradgetriebe, Mit W-Adapter

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

Delik millî, 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
Hohlwelle, Fußbefestigung, B5 Flansch, dreistufig, Kegelstirnradgetriebe, Mit IEC-adapter

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

Delik millî, Ayak montajlı, B5 flanşlı, Üç kademeli, Helisel konik dişlili, PAM adaptörlü redüktör
Helical bevel gear unit, Hollow shaft, Foot mounted, Flange B5, Triple reduction, With PAM adapter
Hohlwelle, Fußbefestigung, B5 Flansch, dreistufig, Kegelstirnradgetriebe, Mit PAM adapter



Not : L ve R çıkış yönünü göstermektedir. / Note: L and R shows that output direction. / Hinweis: L und R geben die Ausgangsrichtung an.

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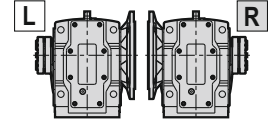
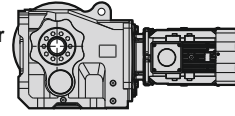
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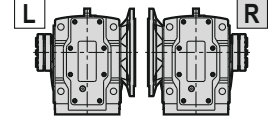
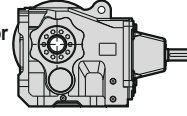
7) PKD 1390... DA / KS-B5 - 63 M / 4 **R**

Delik milli, Ayak montajlı, Konik sıkırtmalı, B5 flanşlı, Üç kademeli, Helisel konik dişli, Motorlu redüktör
Hollow shaft, Foot mounted, Shrink disc connector, Flange B5, Triple reduction, Helical bevel gear unit, With motor
Hohlwelle, Fußbefestigung, Schrumpfscheibe, B5 Flansch, dreistufig, Kegelstirnradgetriebe, Mit motor



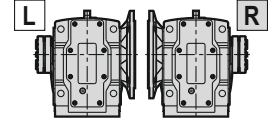
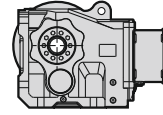
PKD 1390... DA / KS-B5 - W **R**

Delik milli, Ayak montajlı, Konik sıkırtmalı, B5 flanşlı, Üç kademeli, Helisel konik dişli, W kovanlı redüktör
Hollow shaft, Foot mounted, Shrink disc connector, Flange B5, Triple reduction, Helical bevel gear unit, With W adapter
Hohlwelle, Fußbefestigung, Schrumpfscheibe, B5 Flansch, dreistufig, Kegelstirnradgetriebe, Mit W-Adapter



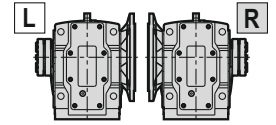
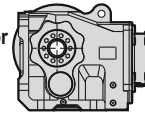
PKD 1390... DA / KS-B5 - IEC 63 **R**

Delik milli, Ayak montajlı, Konik sıkırtmalı, B5 flanşlı, Üç kademeli, Helisel konik dişli, IEC kovanlı redüktör
Hollow shaft, Foot mounted, Shrink disc connector, Flange B5, Triple reduction, Helical bevel gear unit, With IEC adapter
Hohlwelle, Fußbefestigung, Schrumpfscheibe, B5 Flansch, dreistufig, Kegelstirnradgetriebe, Mit IEC-adapter



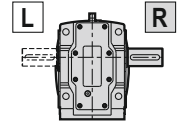
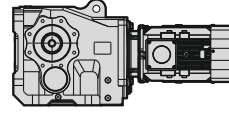
PKD 1390... DA / KS-B5 - PAM 63 **R**

Delik milli, Ayak montajlı, Konik sıkırtmalı, B5 flanşlı, Üç kademeli, Helisel konik dişli, PAM kovanlı redüktör
Hollow shaft, Foot mounted, Shrink disc connector, Flange B5, Triple reduction, Helical bevel gear unit, With PAM adapter
Hohlwelle, Fußbefestigung, Schrumpfscheibe, B5 Flansch, dreistufig, Kegelstirnradgetriebe, Mit PAM adapter



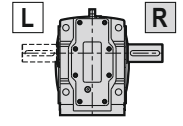
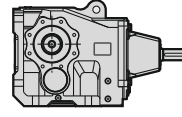
8) PKD 1390... TMA / B14 - 63 M / 4 **R**

Tek mil çıkışlı, Ayak montajlı, Üç kademeli, B14 flanşlı, Helisel konik dişli, Motorlu redüktör
Solid shaft, Foot mounted, Triple reduction, Flange B14, Helical bevel gear unit, With motor
Einseitige Abtriebswelle, Fußbefestigung, dreistufig, B14 Flansch, Kegelstirnradgetriebe, Mit motor



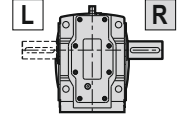
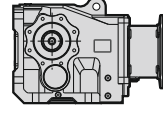
PKD 1390... TMA / B14 - W **R**

Tek mil çıkışlı, Ayak montajlı, Üç kademeli, B14 flanşlı, Helisel konik dişli, W kovanlı redüktör
Solid shaft, Foot mounted, Triple reduction, Flange B14, Helical bevel gear unit, With W adapter
Einseitige Abtriebswelle, Fußbefestigung, dreistufig, B14 Flansch, Kegelstirnradgetriebe, Mit W-Adapter



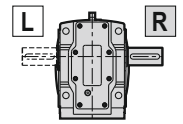
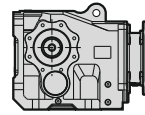
PKD 1390... TMA / B14 - IEC 63 **R**

Tek mil çıkışlı, Ayak montajlı, Üç kademeli, B14 flanşlı, Helisel konik dişli, IEC adaptörlü redüktör
Solid shaft, Foot mounted, Triple reduction, Flange B14, Helical bevel gear unit, With IEC adapter
Einseitige Abtriebswelle, Fußbefestigung, dreistufig, B14 Flansch, Kegelstirnradgetriebe, Mit IEC-adapter



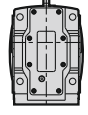
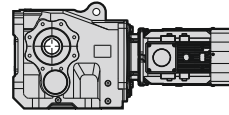
PKD 1390... TMA / B14 - PAM 63 **R**

Tek mil çıkışlı, Ayak montajlı, Üç kademeli, B14 flanşlı, Helisel konik dişli, PAM adaptörlü redüktör
Solid shaft, Foot mounted, Triple reduction, Flange B14, Helical bevel gear unit, With PAM adapter
Einseitige Abtriebswelle, Fußbefestigung, dreistufig, B14 Flansch, Kegelstirnradgetriebe, Mit PAM adapter



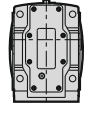
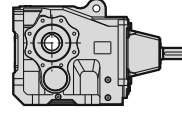
9) PKD 1390... DA / B14 - 63 M / 4

Delik milli, Ayak montajlı, Üç kademeli, B14 flanşlı, Helisel konik dişli, Motorlu redüktör
Hollow shaft, Foot mounted, Triple reduction, Flange B14, Helical bevel gear unit, With motor
Hohlwelle, Fußbefestigung, dreistufig, B14 Flansch, Kegelstirnradgetriebe, Mit motor



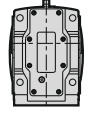
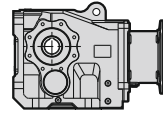
PKD 1390... DA / B14 - W

Delik milli, Ayak montajlı, Üç kademeli, B14 flanşlı, Helisel konik dişli, W kovanlı redüktör
Hollow shaft, Foot mounted, Triple reduction, Flange B14, Helical bevel gear unit, With W adapter
Hohlwelle, Fußbefestigung, dreistufig, B14 Flansch, Kegelstirnradgetriebe, Mit W-Adapter



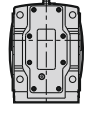
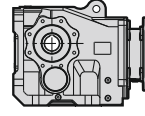
PKD 1390... DA / B14 - IEC 63

Delik milli, Ayak montajlı, Üç kademeli, B14 flanşlı, Helisel konik dişli, IEC adaptörlü redüktör
Hollow shaft, Foot mounted, Triple reduction, Flange B14, Helical bevel gear unit, With IEC adapter
Hohlwelle, Fußbefestigung, dreistufig, B14 Flansch, Kegelstirnradgetriebe, Mit IEC-adapter



PKD 1390... DA / B14 - PAM 63

Delik milli, Ayak montajlı, Üç kademeli, B14 flanşlı, Helisel konik dişli, PAM adaptörlü redüktör
Hollow shaft, Foot mounted, Triple reduction, Flange B14, Helical bevel gear unit, With PAM adapter
Hohlwelle, Fußbefestigung, dreistufig, B14 Flansch, Kegelstirnradgetriebe, Mit PAM adapter



Not : L ve R çıkış yönünü göstermektedir. / Note: L and R shows that output direction. / Hinweis: L und R geben die Ausgangsrichtung an.

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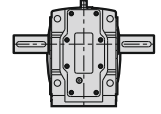
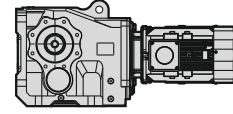
OUR PRODUCTS

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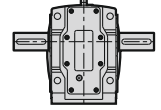
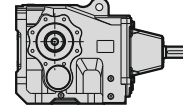
UNSERE PRODUKTE

10) PKD 1390... ÇMA / B14 - 63 M / 4

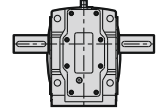
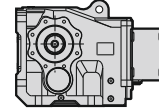
Çift mil çıkışlı, Ayak montajlı, Üç kademeli, B14 Flanşlı, Helisel konik dişli, Motorlu redüktör
Solid shaft on both sides, Foot mounted, Triple reduction, Flange B14, Helical bevel gear unit, With motor
Doppelseitige Abtriebswelle, Fußbefestigung, dreistufig, B14 Flansch, Kegelstirnradgetriebe, Mit motor

**PKD 1390... ÇMA / B14 - W**

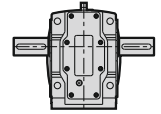
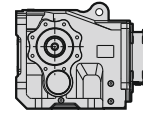
Çift mil çıkışlı, Ayak montajlı, Üç kademeli, B14 Flanşlı, Helisel konik dişli, W kovanlı redüktör
Solid shaft on both sides, Foot mounted, Triple reduction, Flange B14, Helical bevel gear unit, With W adapter
Doppelseitige Abtriebswelle, Fußbefestigung, dreistufig, B14 Flansch, Kegelstirnradgetriebe, Mit W-Adapter

**PKD 1390... ÇMA / B14 - IEC 63**

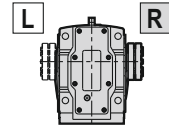
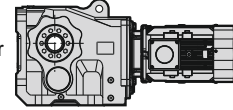
Çift mil çıkışlı, Ayak montajlı, Üç kademeli, B14 Flanşlı, Helisel konik dişli, IEC adaptörlü redüktör
Solid shaft on both sides, Foot mounted, Triple reduction, Flange B14, Helical bevel gear unit, With IEC adapter
Doppelseitige Abtriebswelle, Fußbefestigung, dreistufig, B14 Flansch, Kegelstirnradgetriebe, Mit IEC-adapter

**PKD 1390... ÇMA / B14 - PAM 63**

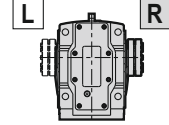
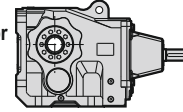
Çift mil çıkışlı, Ayak montajlı, Üç kademeli, B14 Flanşlı, Helisel konik dişli, PAM adaptörlü redüktör
Solid shaft on both sides, Foot mounted, Triple reduction, Flange B14, Helical bevel gear unit, With PAM adapter
Doppelseitige Abtriebswelle, Fußbefestigung, dreistufig, B14 Flansch, Kegelstirnradgetriebe, Mit PAM adapter

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

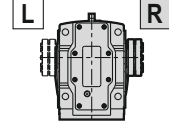
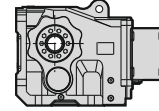
Delik millî, Ayak montajlı, Konik sıkırtmalı, Üç kademeli, B14 flanşlı, Helisel konik dişli, Motorlu redüktör
Hollow shaft, Foot mounted, Shrink disc connector, Triple reduction, Flange B14, Helical bevel gear unit, With motor
Hohlwelle, Fußbefestigung, Schrumpfscheibe, dreistufig, B14 Flansch, Kegelstirnradgetriebe, Mit motor

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

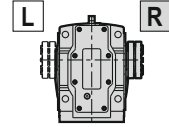
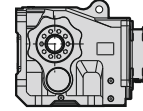
Delik millî, Ayak montajlı, Konik sıkırtmalı, Üç kademeli, B14 flanşlı, Helisel konik dişli, W kovanlı redüktör
Hollow shaft, Foot mounted, Shrink disc connector, Triple reduction, Flange B14, Helical bevel gear unit, With W adapter
Hohlwelle, Fußbefestigung, Schrumpfscheibe, dreistufig, B14 Flansch, Kegelstirnradgetriebe, Mit W-Adapter

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

Delik millî, Ayak montajlı, Konik sıkırtmalı, Üç kademeli, B14 flanşlı, Helisel konik dişli, IEC adaptörlü redüktör
Hollow shaft, Foot mounted, Shrink disc connector, Triple reduction, Flange B14, Helical bevel gear unit, With IEC adapter
Hohlwelle, Fußbefestigung, Schrumpfscheibe, dreistufig, B14 Flansch, Kegelstirnradgetriebe, Mit IEC-adapter

**PKD 1390... DA / KS-B14 - PAM 63 R**

Delik millî, Ayak montajlı, Konik sıkırtmalı, Üç kademeli, B14 flanşlı, Helisel konik dişli, PAM adaptörlü redüktör
Hollow shaft, Foot mounted, Shrink disc connector, Triple reduction, Flange B14, Helical bevel gear unit, With PAM adapter
Hohlwelle, Fußbefestigung, Schrumpfscheibe, dreistufig, B14 Flansch, Kegelstirnradgetriebe, Mit PAM adapter



Not : L ve R çıkış yönünü göstermektedir.

Note: L and R shows that output direction.

Hinweis: L und R geben die Ausgangsrichtung an.

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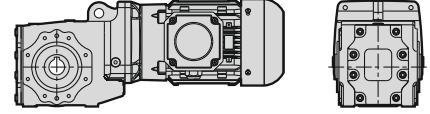
OUR PRODUCTS

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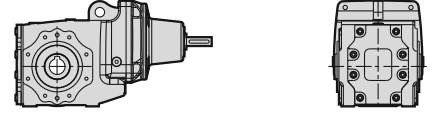
1) **PKD B 0290... DG / B14** - 63 M / 4

Delik milli, Gövdeden montajlı, İki kademeli, B14 flanşlı, Helisel konik dişli, Motorlu redüktör
Hollow shaft, Case mounted, Double reduction, Flange B14, Helical bevel gear unit, With motor
Hohlwelle, Gehäuse Flanschmontage, zweistufig, B14 Flansch, Kegelstirradgetriebe, Mit motor



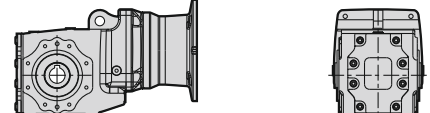
PKD B 0290... DG / B14 - W

Delik Milli, Gövdeden Montajlı, İki Kademeli, B14 flanşlı, Helisel konik dişli, W kovanlı redüktör
Hollow shaft, Case mounted, Double reduction, Flange B14, Helical bevel gear unit, With W adapter
Hohlwelle, Gehäuse Flanschmontage, zweistufig, B14 Flansch, Kegelstirradgetriebe, Mit W-Adapter



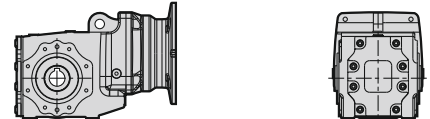
PKD B 0290... DG / B14 - IEC 63

Delik milli, Gövdeden montajlı, İki kademeli, B14 flanşlı, Helisel konik dişli, IEC adaptörlü redüktör
Hollow shaft, Case mounted, Double reduction, Flange B14, Helical bevel gear unit, With IEC adapter
Hohlwelle, Gehäuse Flanschmontage, zweistufig, B14 Flansch, Kegelstirradgetriebe, Mit IEC-adapter



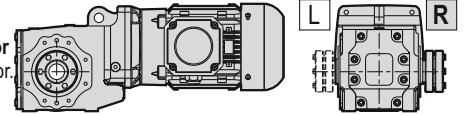
PKD B 0290... DG / B14 - PAM 63

Delik milli, Gövdeden montajlı, İki kademeli, B14 flanşlı, Helisel konik dişli, PAM adaptörlü redüktör
Hollow shaft, Case mounted, Double reduction, Flange B14, Helical bevel gear unit, With PAM adapter
Hohlwelle, Gehäuse Flanschmontage, zweistufig, B14 Flansch, Kegelstirradgetriebe, Mit PAM adapter



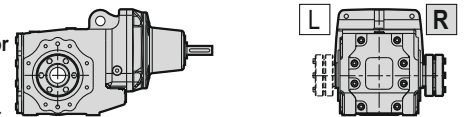
2) **PKD B 0290... DG / KS-B14** - 63 M / 4 **R**

Delik milli, Gövdeden montajlı, Konik sıkırtmalı, İki kademeli, B14 flanşlı, Helisel konik dişli, Motorlu redüktör
Hollow shaft, Case mounted, Shrink disc connector, Double reduction, Flange B14, Helical bevel gear unit, With motor.
Hohlwelle, Gehäuse Flanschmontage, Schrumpfscheibe, zweistufig, B14 Flansch, Kegelstirradgetriebe, Mit motor



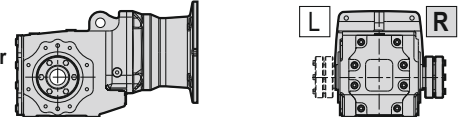
PKD B 0290... DG / KS-B14 - W **R**

Delik milli, Gövdeden montajlı, Konik sıkırtmalı, İki kademeli, B14 flanşlı, Helisel konik dişli, W kovanlı redüktör
Hollow shaft, Case mounted, Shrink disc connector, Double reduction, Flange B14, Helical bevel gear unit, With W adapter
Hohlwelle, Gehäuse Flanschmontage, Schrumpfscheibe, zweistufig, B14 Flansch, Kegelstirradgetriebe, Mit W-Adapter



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

Delik milli, Gövdeden montajlı, Konik sıkırtmalı, İki kademeli, B14 flanşlı, Helisel konik dişli, IEC adaptörlü redüktör
Hollow shaft, Case mounted, Shrink disc connector, Double reduction, Flange B14, Helical bevel gear unit, With IEC adapter
Hohlwelle, Gehäuse Flanschmontage, Schrumpfscheibe, zweistufig, B14 Flansch, Kegelstirradgetriebe, Mit IEC-adapter



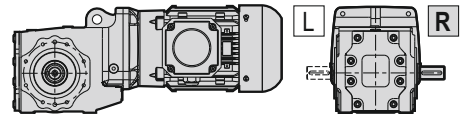
PKD B 0290... DG / KS-B14 - PAM 63 **R**

Delik milli, Gövdeden montajlı, Konik sıkırtmalı, İki kademeli, B14 flanşlı, Helisel konik dişli, PAM adaptörlü redüktör
Hollow shaft, Case mounted, Shrink disc connector, Double reduction, Flange B14, Helical bevel gear unit, With PAM adapter
Hohlwelle, Gehäuse Flanschmontage, Schrumpfscheibe, zweistufig, B14 Flansch, Kegelstirradgetriebe, Mit PAM adapter



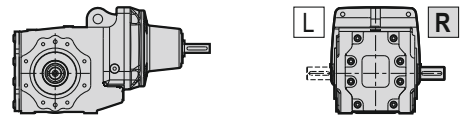
3) **PKD B 0290... TMG / B14** - 63 M / 4 **R**

Tek mil çıkışlı, Gövdeden montajlı, İki kademeli, B14 flanşlı, Helisel konik dişli, Motorlu redüktör
Solid shaft, Case mounted, Double reduction, Flange B14, Helical bevel gear unit, With motor
Einseitige Abtriebswelle, Gehäuse Flanschmontage, zweistufig, B14 Flansch, Kegelstirradgetriebe, Mit motor



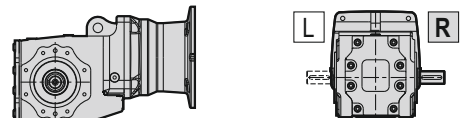
PKD B 0290... TMG / B14 - W **R**

Tek mil çıkışlı, Gövdeden montajlı, İki kademeli, B14 flanşlı, Helisel konik dişli, W kovanlı redüktör
Solid shaft, Case mounted, Double reduction, Flange B14, Helical bevel gear unit, With W adapter
Einseitige Abtriebswelle, Gehäuse Flanschmontage, zweistufig, B14 Flansch, Kegelstirradgetriebe, Mit W-Adapter



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

Tek mil çıkışlı, Gövdeden montajlı, İki kademeli, B14 flanşlı, Helisel konik dişli, IEC adaptörlü redüktör
Solid shaft, Case mounted, Double reduction, Flange B14, Helical bevel gear unit, With IEC adapter
Einseitige Abtriebswelle, Gehäuse Flanschmontage, zweistufig, B14 Flansch, Kegelstirradgetriebe, Mit IEC-adapter



PKD B 0290... TMG / B14 - PAM 63 **R**

Tek mil çıkışlı, Gövdeden montajlı, İki kademeli, B14 flanşlı, Helisel konik dişli, PAM adaptörlü redüktör
Solid shaft, Case mounted, Double reduction, Flange B14, Helical bevel gear unit, With PAM adapter
Einseitige Abtriebswelle, Gehäuse Flanschmontage, zweistufig, B14 Flansch, Kegelstirradgetriebe, Mit PAM adapter



Not : L ve R çıkış yönünü göstermektedir. / Note: L and R shows that output direction. / Hinweis: L und R geben die Ausgangsrichtung an.

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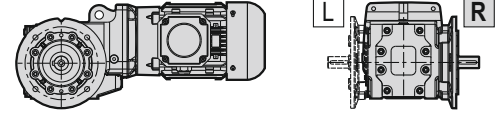
OUR PRODUCTS

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

Tek mil çıkışlı, Gövdeden montajlı, B5 flanşlı, İki kademeli, Helisel konik dişli, Motorlu redüktör
 Solid shaft, Case mounted, Flange B5, Double reduction, Helical bevel gear unit, With motor
 Einseitige Abtriebswelle, Gehäuse Flanschmontage, B5 Flansch, zweistufig, Kegelstirnradgetriebe, Mit motor


PKD B 0290... TMG / B5 - W

Tek mil çıkışlı, Gövdeden montajlı, B5 flanşlı, İki kademeli, Helisel konik dişli, W kovanlı redüktör
 Solid shaft, Case mounted, Flange B5, Double reduction, Helical bevel gear unit, With W adapter
 Einseitige Abtriebswelle, Gehäuse Flanschmontage, B5 Flansch, zweistufig, Kegelstirnradgetriebe, Mit W-Adapter


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

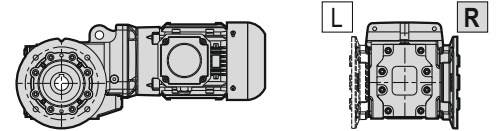
Tek mil çıkışlı, Gövdeden montajlı, B5 flanşlı, İki kademeli, Helisel konik dişli, IEC adaptörlü redüktör
 Solid shaft, Case mounted, Flange B5, Double reduction, Helical bevel gear unit, With IEC adapter
 Einseitige Abtriebswelle, Gehäuse Flanschmontage, B5 Flansch, zweistufig, Kegelstirnradgetriebe, Mit IEC-adapter


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

Tek mil çıkışlı, Gövdeden montajlı, B5 flanşlı, İki kademeli, Helisel konik dişli, PAM adaptörlü redüktör
 Solid shaft, Case mounted, Flange B5, Double reduction, Helical bevel gear unit, With PAM adapter
 Einseitige Abtriebswelle, Gehäuse Flanschmontage, B5 Flansch, zweistufig, Kegelstirnradgetriebe, Mit PAM adapter


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

Delik milli, Gövdeden montajlı, B5 flanşlı, İki kademeli, Helisel konik dişli, Motorlu redüktör
 Hollow shaft, Case mounted, Flange B5, Double reduction, Helical bevel gear unit, With motor
 Hohlwelle, Gehäuse Flanschmontage, B5 Flansch, zweistufig, Kegelstirnradgetriebe, Mit motor


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

Delik milli, Gövdeden montajlı, B5 flanşlı, İki kademeli, Helisel konik dişli, W kovanlı redüktör
 Hollow shaft, Case mounted, Flange B5, Double reduction, Helical bevel gear unit, With W adapter
 Hohlwelle, Gehäuse Flanschmontage, B5 Flansch, zweistufig, Kegelstirnradgetriebe, Mit W-Adapter


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

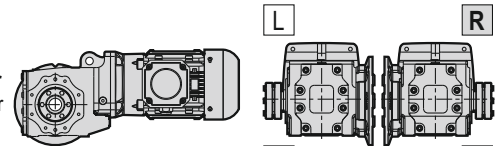
Delik milli, Gövdeden montajlı, B5 flanşlı, İki kademeli, Helisel konik dişli, IEC adaptörlü redüktör
 Hollow shaft, Case mounted, Flange B5, Double reduction, Helical bevel gear unit, With IEC adapter
 Hohlwelle, Gehäuse Flanschmontage, B5 Flansch, zweistufig, Kegelstirnradgetriebe, Mit IEC-adapter


PKD B 0290... DG / B5 - PAM 63 R

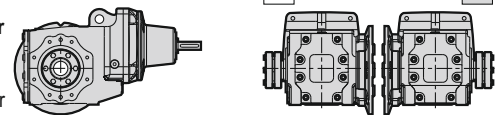
Delik milli, Gövdeden montajlı, B5 flanşlı, İki kademeli, Helisel konik dişli, PAM adaptörlü redüktör
 Hollow shaft, Case mounted, Flange B5, Double reduction, Helical bevel gear unit, With PAM adapter
 Hohlwelle, Gehäuse Flanschmontage, B5 Flansch, zweistufig, Kegelstirnradgetriebe, Mit PAM adapter


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

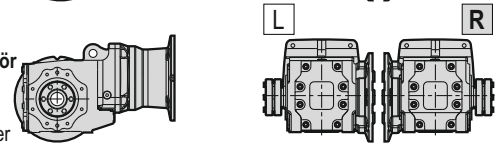
Delik milli, Gövdeden montajlı, Konik sıkırmalı, B5 flanşlı, İki kademeli, Helisel konik dişli, Motorlu redüktör
 Hollow shaft, Case mounted, Shrink disc connector, Flange B5, Double reduction, Helical bevel gear unit, With motor
 Hohlwelle, Gehäuse Flanschmontage, Schrumpfscheibe B5 Flansch, zweistufig, Kegelstirnradgetriebe, Mit motor


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

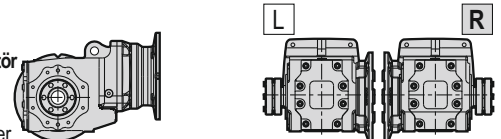
Delik milli, Gövdeden montajlı, Konik sıkırmalı, B5 flanşlı, İki kademeli, Helisel konik dişli, W adaptörlü redüktör
 Hollow shaft, Case mounted, Shrink disc connector, Flange B5, Double reduction, Helical bevel gear unit, With W adapter
 Hohlwelle, Gehäuse Flanschmontage, Schrumpfscheibe B5 Flansch, zweistufig, Kegelstirnradgetriebe, Mit W-Adapter


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

Delik milli, Gövdeden montajlı, Konik sıkırmalı, B5 flanşlı, İki kademeli, Helisel konik dişli, IEC adaptörlü redüktör
 Hollow shaft, Case mounted, Shrink disc connector, Flange B5, Double reduction, Helical bevel gear unit, With IEC adapter
 Hohlwelle, Gehäuse Flanschmontage, Schrumpfscheibe B5 Flansch, zweistufig, Kegelstirnradgetriebe, Mit IEC-adapter


PKD B 0290... DG / KS-B5 - PAM 63 R

Delik milli, Gövdeden montajlı, Konik sıkırmalı, B5 flanşlı, İki kademeli, Helisel konik dişli, PAM adaptörlü redüktör
 Hollow shaft, Case mounted, Shrink disc connector, Flange B5, Double reduction, Helical bevel gear unit, With PAM adapter
 Hohlwelle, Gehäuse Flanschmontage, Schrumpfscheibe B5 Flansch, zweistufig, Kegelstirnradgetriebe, Mit PAM adapter



Not : L ve R çıkış yönünü göstermektedir. / Note: L and R shows that output direction. / Hinweis: L und R geben die Ausgangsrichtung an.

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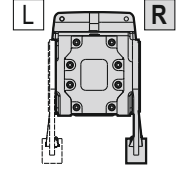
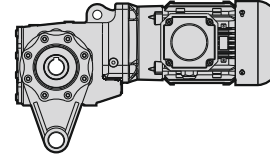
OUR PRODUCTS

DE

UNSERE PRODUKTE

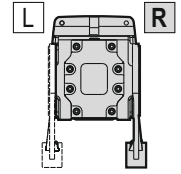
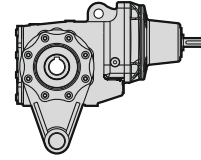
7) **PKD B 0290... DG / TK - 63 M / 4** **R**

Delik millî, Gövdeden montajlı, Tork kolu, İki kademeli, Helisel konik dişli, Motorlu redüktör
Hollow shaft, Case mounted, Torque arm, Double reduction, Helical bevel gear unit, With motor
Hohlwelle, Gehäuse Flanschmontage, Drehmomentstütze, zweistufig, Kegelstirradgetriebe, Mit motor



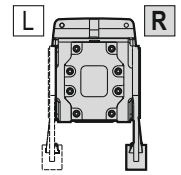
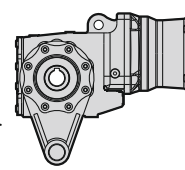
PKD B 0290... DG / TK - W **R**

Delik millî, Gövdeden montajlı, Tork kolu, İki kademeli, Helisel konik dişli, W kovanlı redüktör
Hollow shaft, Case mounted, Torque arm, Double reduction, Helical bevel gear unit, With W adapter
Hohlwelle, Gehäuse Flanschmontage, Drehmomentstütze, zweistufig, Kegelstirradgetriebe, Mit W-Adapter



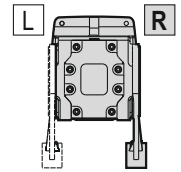
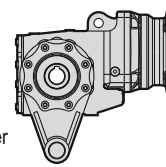
PKD B 0290... DG / TK - IEC **R**

Delik millî, Gövdeden montajlı, Tork kolu, İki kademeli, Helisel konik dişli, IEC adaptörlü redüktör
Hollow shaft, Case mounted, Torque arm, Double reduction, Helical bevel gear unit, With IEC adapter
Hohlwelle, Gehäuse Flanschmontage, Drehmomentstütze, zweistufig, Kegelstirradgetriebe, Mit IEC-adapter



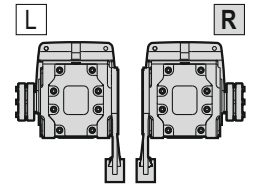
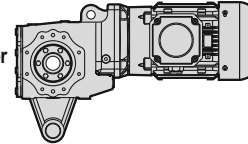
PKD B 0290... DG / TK - IEC **R**

Delik millî, Gövdeden montajlı, Tork kolu, İki kademeli, Helisel konik dişli, IEC adaptörlü redüktör
Hollow shaft, Case mounted, Torque arm, Double reduction, Helical bevel gear unit, With IEC adapter
Hohlwelle, Gehäuse Flanschmontage, Drehmomentstütze, zweistufig, Kegelstirradgetriebe, Mit PAM adapter



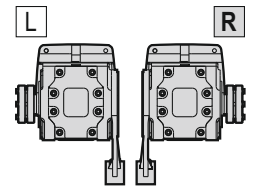
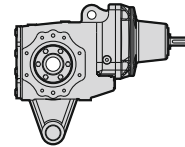
8) **PKD B 0290... DG / KS-TK - 63 M / 4** **R**

Delik millî, Gövdeden montajlı, Konik sıkırmalı, Tork kolu, İki kademeli, Helisel konik dişli, Motorlu redüktör
Hollow shaft, Case mounted, Shrink disc connector, Torque arm, Double reduction, Helical bevel gear unit, With motor
Hohlwelle, Gehäuse Flanschmontage, Schrumpfscheibe, Drehmomentstütze, zweistufig, Kegelstirradgetriebe, Mit motor



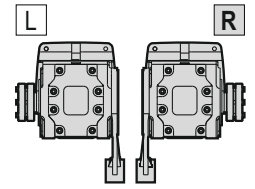
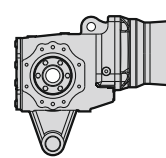
PKD 1390... DG / KS-TK - W **R**

Delik millî, Gövdeden montajlı, Konik sıkırmalı, Tork kolu, İki kademeli, Helisel konik dişli, W kovanlı redüktör
Hollow shaft, Case mounted, Shrink disc connector, Torque arm, Double reduction, Helical bevel gear unit, With W adapter
Hohlwelle, Gehäuse Flanschmontage, Schrumpfscheibe, Drehmomentstütze, zweistufig, Kegelstirradgetriebe, Mit W-Adapter



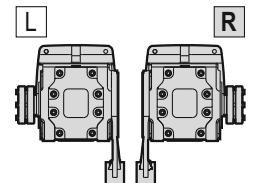
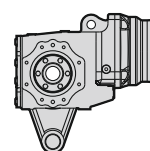
PKD B 0290... DG / KS-TK - IEC **R**

Delik millî, Gövdeden montajlı, Konik sıkırmalı, Tork kolu, İki kademeli, Helisel konik dişli, IEC adaptörlü redüktör
Hollow shaft, Case mounted, Shrink disc connector, Torque arm, Double reduction, Helical bevel gear unit, With IEC adapter
Hohlwelle, Gehäuse Flanschmontage, Schrumpfscheibe, Drehmomentstütze, zweistufig, Kegelstirradgetriebe, Mit IEC-adapter



PKD B 0290... DG / KS-TK - PAM **R**

Delik millî, Gövdeden montajlı, Konik sıkırmalı, Tork kolu, İki kademeli, Helisel konik dişli, PAM adaptörlü redüktör
Hollow shaft, Case mounted, Shrink disc connector, Torque arm, Double reduction, Helical bevel gear unit, With PAM adapter
Hohlwelle, Gehäuse Flanschmontage, Schrumpfscheibe, Drehmomentstütze, zweistufig, Kegelstirradgetriebe, Mit PAM adapter



Not : L ve R çıkış yönünü göstermektedir. / Note: L and R shows that output direction. / Hinweis: L und R geben die Ausgangsrichtung an.

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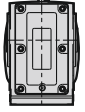
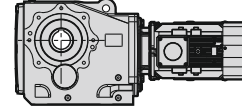
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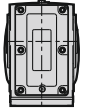
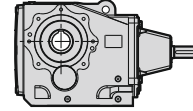
1) PKD B 1390... DG / B14 - 63 M / 4

Delik milli, Gövdeden montajlı, Üç kademeli, B14 flanşlı, Helisel konik dişlili, Motorlu redüktör
Hollow shaft, Case mounted, Triple reduction, Flange B14, Helical bevel gear unit, With motor
Hohlwelle, Gehäuse Flanschmontage, dreistufig, B14 Flansch, Kegelstirnradgetriebe, Mit motor



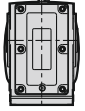
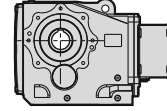
PKD 1390... DG / B14 - W

Delik Milli, Gövdeden Montajlı, Üç Kademeli, B14 flanşlı, Helisel konik dişlili, W kovanlı redüktör
Hollow shaft, Case mounted, Triple reduction, Flange B14, Helical bevel gear unit, With W adapter
Hohlwelle, Gehäuse Flanschmontage, dreistufig, B14 Flansch, Kegelstirnradgetriebe, Mit W-Adapter



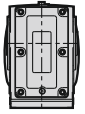
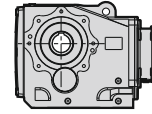
PKD 1390... DG / B14 - IEC 63

Delik milli, Gövdeden montajlı, Üç kademeli, B14 flanşlı, Helisel konik dişlili, IEC adaptörlü redüktör
Hollow shaft, Case mounted, Triple reduction, Flange B14, Helical bevel gear unit, With IEC adapter
Hohlwelle, Gehäuse Flanschmontage, dreistufig, B14 Flansch, Kegelstirnradgetriebe, Mit IEC-adapter



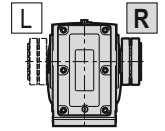
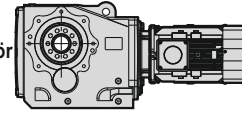
PKD 1390... DG / B14 - PAM 63

Delik milli, Gövdeden montajlı, Üç kademeli, B14 flanşlı, Helisel konik dişlili, PAM adaptörlü redüktör
Hollow shaft, Case mounted, Triple reduction, Flange B14, Helical bevel gear unit, With PAM adapter
Hohlwelle, Gehäuse Flanschmontage, dreistufig, B14 Flansch, Kegelstirnradgetriebe, Mit PAM adapter



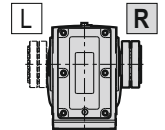
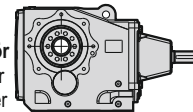
2) PKD 1390... DG / KS-B14 - 63 M / 4 R

Delik milli, Gövdeden montajlı, Konik sıkırmalı, Üç kademeli, B14 flanşlı, Helisel konik dişlili, Motorlu redüktör
Hollow shaft, Case mounted, Shrink disc connector Triple reduction, Flange B14, Helical bevel gear unit, With motor
Hohlwelle, Gehäuse Flanschmontage, Schrumpfscheibe, dreistufig, B14 Flansch, Kegelstirnradgetriebe, Mit motor



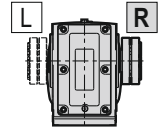
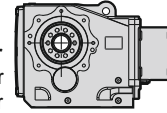
PKD 1390... DG / KS-B14 - W R

Delik milli, Gövdeden montajlı, Konik sıkırmalı, Üç kademeli, B14 flanşlı, Helisel konik dişlili, W kovanlı redüktör
Hollow shaft, Case mounted, Shrink disc connector, Triple reduction, Flange B14, Helical bevel gear unit, With W adapter
Hohlwelle, Gehäuse Flanschmontage, Schrumpfscheibe, dreistufig, B14 Flansch, Kegelstirnradgetriebe, Mit W-Adapter



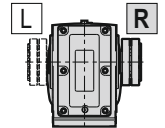
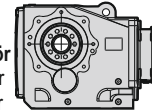
PKD 1390... DG / KS-B14 - IEC 63 R

Delik milli, Gövdeden montajlı, Konik sıkırmalı, Üç kademeli, B14 flanşlı, Helisel konik dişlili, IEC adaptörlü redüktör
Hollow shaft, Case mounted, Shrink disc connector, Triple reduction, Flange B14, Helical bevel gear unit, With IEC adapter
Hohlwelle, Gehäuse Flanschmontage, Schrumpfscheibe, dreistufig, B14 Flansch, Kegelstirnradgetriebe, Mit IEC-adapter



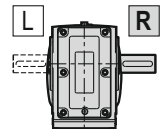
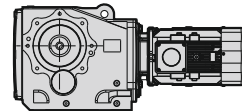
PKD 1390... DG / KS-B14 - PAM 63 R

Delik milli, Gövdeden montajlı, Konik sıkırmalı, Üç kademeli, B14 flanşlı, Helisel konik dişlili, PAM adaptörlü redüktör
Hollow shaft, Case mounted, Shrink disc connector, Triple reduction, Flange B14, Helical bevel gear unit, With PAM adapter
Hohlwelle, Gehäuse Flanschmontage, Schrumpfscheibe, dreistufig, B14 Flansch, Kegelstirnradgetriebe, Mit PAM adapter



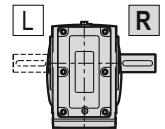
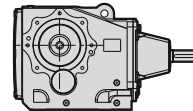
3) PKD 1390... TMG / B14 - 63 M / 4 R

Tek mil çıkışlı, Gövdeden montajlı, Üç kademeli, B14 flanşlı, Helisel konik dişlili, Motorlu redüktör
Solid shaft, Case mounted, Triple reduction, Flange B14, Helical bevel gear unit, With motor
Einseitige Abtriebswelle, Gehäuse Flanschmontage, dreistufig, B14 Flansch, Kegelstirnradgetriebe, Mit motor



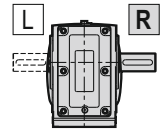
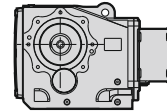
PKD 1390... TMG / B14 - W R

Tek mil çıkışlı, Gövdeden montajlı, Üç kademeli, B14 flanşlı, Helisel konik dişlili, W kovanlı redüktör
Solid shaft, Case mounted, Triple reduction, Flange B14, Helical bevel gear unit, With W adapter
Einseitige Abtriebswelle, Gehäuse Flanschmontage, dreistufig, B14 Flansch, Kegelstirnradgetriebe, Mit W-Adapter



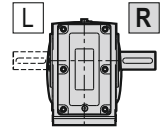
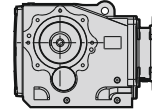
PKD 1390... TMG / B14 - IEC 63 R

Tek mil çıkışlı, Gövdeden montajlı, Üç kademeli, B14 flanşlı, Helisel konik dişlili, IEC adaptörlü redüktör
Solid shaft, Case mounted, Triple reduction, Flange B14, Helical bevel gear unit, With IEC adapter
Einseitige Abtriebswelle, Gehäuse Flanschmontage, dreistufig, B14 Flansch, Kegelstirnradgetriebe, Mit IEC-adapter



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

Tek mil çıkışlı, Gövdeden montajlı, Üç kademeli, B14 flanşlı, Helisel konik dişlili, PAM adaptörlü redüktör
Solid shaft, Case mounted, Triple reduction, Flange B14, Helical bevel gear unit, With PAM adapter
Einseitige Abtriebswelle, Gehäuse Flanschmontage, dreistufig, B14 Flansch, Kegelstirnradgetriebe, Mit PAM adapter



Not : L ve R çıkış yönünü göstermektedir. / Note: L and R shows that output direction. / Hinweis: L und R geben die Ausgangsrichtung an.

TR

ÜRÜNLERİMİZ

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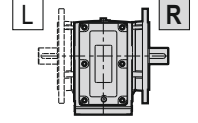
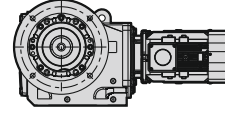
OUR PRODUCTS

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UNSERE PRODUKTE

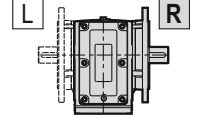
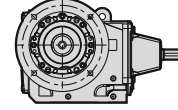
4) PKD 1390... **TMG / B5** - 63 M / 4

Tek mil çıkışlı, Gövdeden montajlı, B5 flanşlı, Üç kademeli, Helisel konik dişlili, Motorlu redüktör
Solid shaft, Case mounted, Flange B5, Triple reduction, Helical bevel gear unit, With motor
Einseitige Abtriebswelle, Gehäuse Flanschmontage, B5 Flansch, dreistufig, Kegelstirnradgetriebe, Mit motor



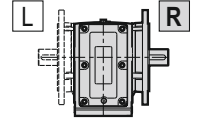
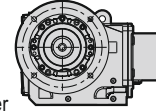
PKD 1390... **TMG / B5** - W

Tek mil çıkışlı, Gövdeden montajlı, B5 flanşlı, Üç kademeli, Helisel konik dişlili, W kovanlı redüktör
Solid shaft, Case mounted, Flange B5, Triple reduction, Helical bevel gear unit, With W adapter
Einseitige Abtriebswelle, Gehäuse Flanschmontage, B5 Flansch, dreistufig, Kegelstirnradgetriebe, Mit W-Adapter



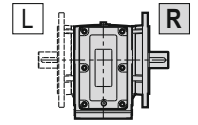
PKD 1390... **TMG / B5** - IEC 63

Tek mil çıkışlı, Gövdeden montajlı, B5 flanşlı, Üç kademeli, Helisel konik dişlili, IEC adaptörlü redüktör
Solid shaft, Case mounted, Flange B5, Triple reduction, Helical bevel gear unit, With IEC adapter
Einseitige Abtriebswelle, Gehäuse Flanschmontage, B5 Flansch, dreistufig, Kegelstirnradgetriebe, Mit IEC-adapter



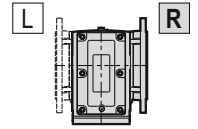
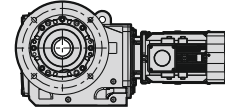
PKD 1390... **TMG / B5** - PAM 63

Tek mil çıkışlı, Gövdeden montajlı, B5 flanşlı, Üç kademeli, Helisel konik dişlili, PAM adaptörlü redüktör
Solid shaft, Case mounted, Flange B5, Triple reduction, Helical bevel gear unit, With PAM adapter
Einseitige Abtriebswelle, Gehäuse Flanschmontage, B5 Flansch, dreistufig, Kegelstirnradgetriebe, Mit PAM adapter



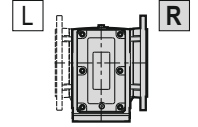
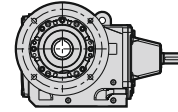
5) PKD 1390... **DG / B5** - 63 M / 4 **R**

Delik milli, Gövdeden montajlı, B5 flanşlı, Üç kademeli, Helisel konik dişlili, Motorlu redüktör
Hollow shaft, Case mounted, Flange B5, Triple reduction, Helical bevel gear unit, With motor
Hohlwelle, Gehäuse Flanschmontage, B5 Flansch, dreistufig, Kegelstirnradgetriebe, Mit motor



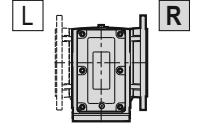
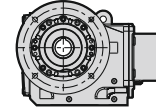
PKD 1390... **DG / B5** - W **R**

Delik milli, Gövdeden montajlı, B5 flanşlı, Üç kademeli, Helisel konik dişlili, W kovanlı redüktör
Hollow shaft, Case mounted, Flange B5, Triple reduction, Helical bevel gear unit, With W adapter
Hohlwelle, Gehäuse Flanschmontage, B5 Flansch, dreistufig, Kegelstirnradgetriebe, Mit W-Adapter



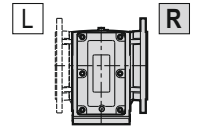
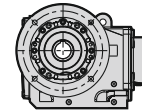
PKD 1390... **DG / B5** - IEC 63 **R**

Delik milli, Gövdeden montajlı, B5 flanşlı, Üç kademeli, Helisel konik dişlili, IEC adaptörlü redüktör
Hollow shaft, Case mounted, Flange B5, Triple reduction, Helical bevel gear unit, With IEC adapter
Hohlwelle, Gehäuse Flanschmontage, B5 Flansch, dreistufig, Kegelstirnradgetriebe, Mit IEC-adapter



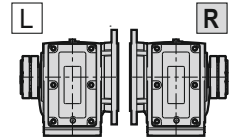
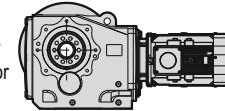
PKD 1390... **DG / B5** - PAM 63 **R**

Delik milli, Gövdeden montajlı, B5 flanşlı, Üç kademeli, Helisel konik dişlili, PAM adaptörlü redüktör
Hollow shaft, Case mounted, Flange B5, Triple reduction, Helical bevel gear unit, With PAM adapter
Hohlwelle, Gehäuse Flanschmontage, B5 Flansch, dreistufig, Kegelstirnradgetriebe, Mit PAM adapter



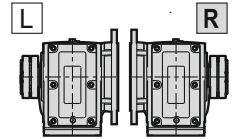
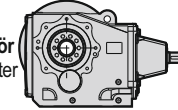
6) PKD 1390... **DG / KS-B5** - 63 M / 4 **R**

Delik milli, Gövdeden montajlı, Konik sıkırmalı, B5 flanşlı, Üç kademeli, Helisel konik dişlili, Motorlu redüktör
Hollow shaft, Case mounted, Shrink disc connector, Flange B5, Triple reduction, Helical bevel gear unit, With motor
Hohlwelle, Gehäuse Flanschmontage, Schrumpfscheibe B5 Flansch, dreistufig, Kegelstirnradgetriebe, Mit motor



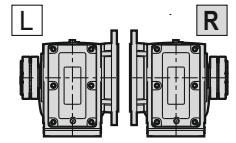
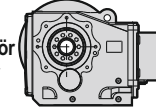
PKD 1390... **DG / KS-B5** - W **R**

Delik milli, Gövdeden montajlı, Konik sıkırmalı, B5 flanşlı, Üç kademeli, Helisel konik dişlili, W kovanlı redüktör
Hollow shaft, Case mounted, Shrink disc connector, Flange B5, Triple reduction, Helical bevel gear unit, With W adapter
Hohlwelle, Gehäuse Flanschmontage, Schrumpfscheibe B5 Flansch, dreistufig, Kegelstirnradgetriebe, Mit W-Adapter



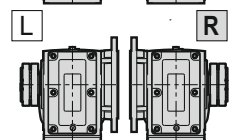
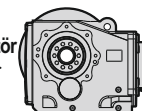
PKD 1390... **DG / KS-B5** - IEC 63 **R**

Delik milli, Gövdeden montajlı, Konik sıkırmalı, B5 flanşlı, Üç kademeli, Helisel konik dişlili, IEC adaptörlü redüktör
Hollow shaft, Case mounted, Shrink disc connector, Flange B5, Triple reduction, Helical bevel gear unit, With IEC adapter
Hohlwelle, Gehäuse Flanschmontage, Schrumpfscheibe B5 Flansch, dreistufig, Kegelstirnradgetriebe, Mit IEC Adapter



PKD 1390... **DG / KS-B5** - PAM 63 **R**

Delik milli, Gövdeden montajlı, Konik sıkırmalı, B5 flanşlı, Üç kademeli, Helisel konik dişlili, PAM adaptörlü redüktör
Hollow shaft, Case mounted, Shrink disc connector, Flange B5, Triple reduction, Helical bevel gear unit, With PAM adapter
Hohlwelle, Gehäuse Flanschmontage, Schrumpfscheibe B5 Flansch, dreistufig, Kegelstirnradgetriebe, Mit PAM Adapter



Not : L ve R çıkış yönünü göstermektedir. / Note: L and R shows that output direction. / Hinweis: L und R geben die Ausgangsrichtung an.

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OUR PRODUCTS

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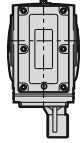
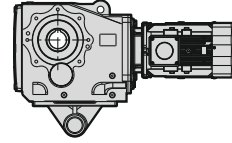
UNSERE PRODUKTE

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

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

Hohlwelle, Gehäuse Flanschmontage, dreistufig, Drehmomentstütze Plattform, B14 Flansch, Kegelstirradgetriebe, Mit motor

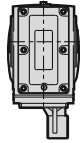
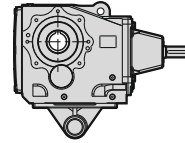


PKD 1390... DG / TKP-B14 - W

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

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

Hohlwelle, Gehäuse Flanschmontage, dreistufig, Drehmomentstütze Plattform, B14 Flansch, Kegelstirradgetriebe, Mit W-Adapter

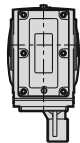
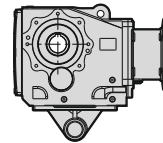


PKD 1390... DG / TKP-B14 - IEC 63

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

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

Hohlwelle, Gehäuse Flanschmontage, dreistufig, Drehmomentstütze Plattform, B14 Flansch, Kegelstirradgetriebe, Mit IEC-adapter

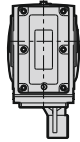
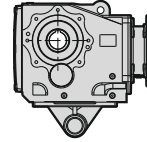


PKD 1390... DG / TKP-B14 - PAM 63

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

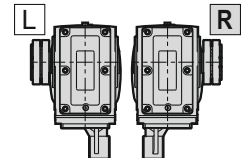
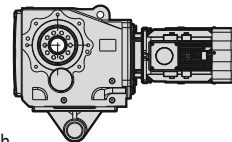
Hollow shaft, Case mounted, Triple reduction, Torque arm platform, Flange B14, Helical bevel gear unit, With PAM adapter

Hohlwelle, Gehäuse Flanschmontage, dreistufig, Drehmomentstütze Plattform, B14 Flansch, Kegelstirradgetriebe, Mit PAM adapter

8) PKD 1390... DG / KS-TKP-B14 - 63 M / 4 **R****Delik milli, Gövdeden montajlı, Konik sıkırtmalı, Üç kademeli, Tork kolu platformu, B14 flanşlı, Helisel konik dişlili, Motorlu redüktör**

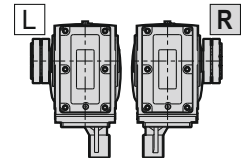
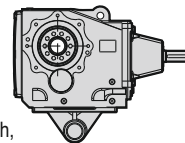
Hollow shaft, Case mounted, Shrink disc connector, Triple reduction, Torque arm platform, Flange B14, Helical bevel gear unit, With motor

Hohlwelle, Gehäuse Flanschmontage, Schrumpfscheibe, dreistufig, Drehmomentstütze Plattform, B14 Flansch, Kegelstirradgetriebe, Mit motor

PKD 1390... DG / KS-TKP-B14 - W **R****Delik milli, Gövdeden montajlı, Konik sıkırtmalı, Üç kademeli, Tork kolu platformu, B14 flanşlı, Helisel konik dişlili, W kovanlı redüktör**

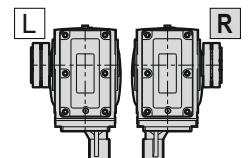
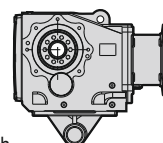
Hollow shaft, Case mounted, Shrink disc connector, Triple reduction, Torque arm platform, Flange B14, Helical bevel gear unit, With W adapter

Hohlwelle, Gehäuse Flanschmontage, Schrumpfscheibe, dreistufig, Drehmomentstütze Plattform, B14 Flansch, Kegelstirradgetriebe, Mit W-Adapter

PKD 1390... DG / KS-TKP-B14 - IEC **R****Delik milli, Gövdeden montajlı, Konik sıkırtmalı, Üç kademeli, Tork kolu platformu, B14 flanşlı, Helisel konik dişlili, IEC adaptörlü redüktör**

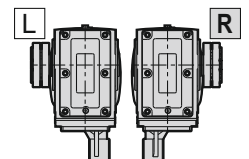
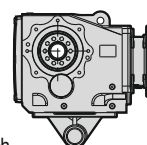
Hollow shaft, Case mounted, Shrink disc connector, Triple reduction, Torque arm platform, Flange B14, Helical bevel gear unit, With IEC adapter

Hohlwelle, Gehäuse Flanschmontage, Schrumpfscheibe, dreistufig, Drehmomentstütze Plattform, B14 Flansch, Kegelstirradgetriebe, Mit IEC-adapter

PKD 1390... DG / KS-TKP-B14 - PAM **R****Delik milli, Gövdeden montajlı, Konik sıkırtmalı, Üç kademeli, Tork kolu platformu, B14 flanşlı, Helisel konik dişlili, PAM adaptörlü redüktör**

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

Hohlwelle, Gehäuse Flanschmontage, Schrumpfscheibe, dreistufig, Drehmomentstütze Plattform, B14 Flansch, Kegelstirradgetriebe, Mit PAM adapter



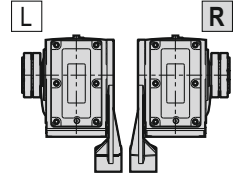
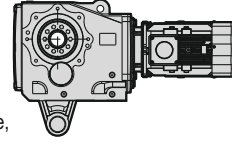
Not : L ve R çıkış yönünü göstermektedir. / Note: L and R shows that output direction. / Hinweis: L und R geben die Ausgangsrichtung an.

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

Delik millli, Gövdeden montajlı, Konik sıkırtmalı, Tork kolları, Üç kademeli, Helisel konik dişli, Motorlu redüktör

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

Hohlwelle, Gehäuse Flanschmontage, Schrumpfscheibe, Drehmomentstütze, dreistufig, Kegelstirnradgetriebe, Mit motor

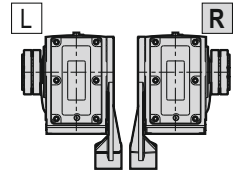
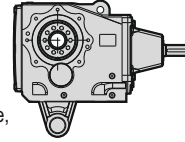


PKD 1390... DG / KS-TK - W R

Delik millli, Gövdeden montajlı, Konik sıkırtmalı, Tork kolları, Üç kademeli, Helisel konik dişli, W kovanlı redüktör

Hollow shaft, Case mounted, Shrink disc connector, Torque arm, Triple reduction, Helical bevel gear unit, With W adapter

Hohlwelle, Gehäuse Flanschmontage, Schrumpfscheibe, Drehmomentstütze, dreistufig, Kegelstirnradgetriebe, Mit W-Adapter

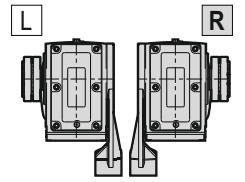
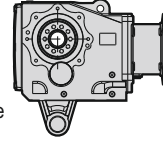


PKD 1390... DG / KS-TK - IEC R

Delik millli, Gövdeden montajlı, Konik sıkırtmalı, Tork kolları, Üç kademeli, Helisel konik dişli, IEC adaptörlü redüktör

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

Hohlwelle, Gehäuse Flanschmontage, Schrumpfscheibe, Drehmomentstütze, dreistufig, Kegelstirnradgetriebe, Mit IEC-adapter

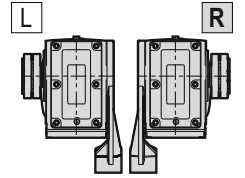
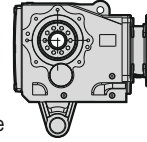


PKD 1390... DG / KS-TK - PAM R

Delik millli, Gövdeden montajlı, Konik sıkırtmalı, Tork kolları, Üç kademeli, Helisel konik dişli, PAM adaptörlü redüktör

Hollow shaft, Case mounted, Shrink disc connector, Torque arm, Triple reduction, Helical bevel gear unit, With PAM adapter

Hohlwelle, Gehäuse Flanschmontage, Schrumpfscheibe, Drehmomentstütze, dreistufig, Kegelstirnradgetriebe, Mit PAM adapter

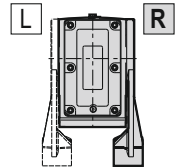
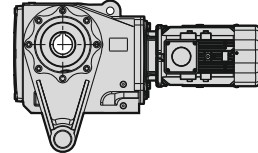


10) PKD 1390... DG / TK - 63 M / 4 R

Delik millli, Gövdeden montajlı, Tork kolları, Üç kademeli, Helisel konik dişli, Motorlu redüktör

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

Hohlwelle, Gehäuse Flanschmontage, Drehmomentstütze, dreistufig, Kegelstirnradgetriebe, Mit motor

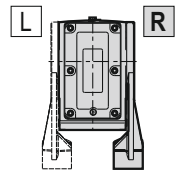
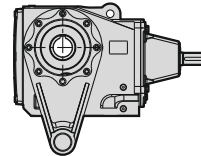


PKD 1390... DG / TK - W R

Delik millli, Gövdeden montajlı, Tork kolları, Üç kademeli, Helisel konik dişli, W kovanlı redüktör

Hollow shaft, Case mounted, Torque arm, Triple reduction, Helical bevel gear unit, With W adapter

Hohlwelle, Gehäuse Flanschmontage, Drehmomentstütze, dreistufig, Kegelstirnradgetriebe, Mit W-Adapter

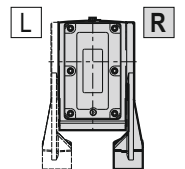
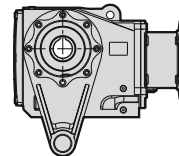


PKD 1390... DG / TK - IEC R

Delik millli, Gövdeden montajlı, Tork kolları, Üç kademeli, Helisel konik dişli, IEC adaptörlü redüktör

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

Hohlwelle, Gehäuse Flanschmontage, Drehmomentstütze, dreistufig, Kegelstirnradgetriebe, Mit IEC-adapter

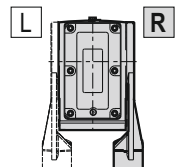
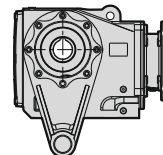


PKD 1390... DG / TK - PAM R

Delik millli, Gövdeden montajlı, Tork kolları, Üç kademeli, Helisel konik dişli, PAM adaptörlü redüktör

Hollow shaft, Case mounted, Torque arm, Triple reduction, Helical bevel gear unit, With PAM adapter

Hohlwelle, Gehäuse Flanschmontage, Drehmomentstütze, dreistufig, Kegelstirnradgetriebe, Mit PAM adapter



Not : L ve R çıkış yönünü göstermektedir. / Note: L and R shows that output direction. / Hinweis: L und R geben die Ausgangsrichtung an.

TR REDÜKTÖR SEÇİM FORMU

1- REDÜKTÖR

Kullanılacak Sektör:

Uygulama Yeri:

Günlük Çalışma Saati:

<4 [] 4-8 [] 8-16 [] >16 []

Saatteki Dur-Kalk Sayısı:

0-50 [] 50-100 [] 100-200 [] 200-300 []
300-500 [] 500-700 [] 700-1000 [] >1000 []

Giriş Seçeneği: Motorlu [] Motorsuz []

Talep Edilen Motor Gücü:kW

Talep Edilen Motor Devri:d/dak

Talep Edilen Çıkış Devri:d/dak

2 - GİRİŞ - ÇIKIŞ

Tahrik Tipi:

AC Motor [] AC Motor + Invertör [] Servo Motor []
Hidro Motor [] Serbest Giriş Mili [] Diğer []

Motor Bağlantı Flanşı (Elektirik Motorlu ise):

Akuple [] IEC B5 [] PAM B5 []
PAM B14 [] NEMA []

Giriş Mili Özelliği (Serbest Giriş Milli ise):

Kamalı [] Diğer:

Giriş Mili Tahrik Tipi (Serbest Giriş Milli ise):

Elastik Kaplin [] Hidrolik Kaplin [] Küçük Hızlarda Zincir Dişli [] Düz Dişli []
Triger Kayış [] V Kayış [] Gergirme Makaralı Kayış []

Giriş Mili Yük Durumu (Serbest Giriş Milli ise):

Radyal yük.....N
Eksenel Yük.....N / Çeki [] Bası []

Çıkış Mili Özelliği (Serbest Giriş Milli ise):

Mil Çıkışlı [] Delik Milli [] Konik Sıkırtma Şaftlı []
Diğer:

Çıkış Mili Tahrik Tipi:

Direkt [] Elastik Kaplin [] Hidrolik Kaplin [] Küçük Hızlarda Zincir Dişli []
Düz Dişli [] Triger Kayış [] V Kayış [] Gerdirmeye Makaralı Kayış []

Çıkış Mili Yük Durumu :

Radyal yük.....N
Eksenel Yük.....N / Çeki [] Bası []

3 - MONTAJ

Montaj Pozisyonu:

M1 [] M2 [] M3 [] M4 [] M5 [] M6 []

Kilit Durumu:

Var [] Yok []

Deniz Seviyesinden Yükseklik:

0-1000 [] 1000-2000 [] 2000-3000 [] 3000-4000 [] 4000-5000 []

Ortam Durumu:

Açık (1,25 m/sn) [] Kapalı (4 m/sn) []

Ortam Şartları:

Normal [] Tozlu [] Nemli [] Kuru []

Diğer:

Ortam Sıcaklığı:°C

4 - MOTOR

Elektiriksel Değer:

Voltaj:V

Frekans:Hz

Koruma Sınıfı:

IP55 [] IP65 [] Exproof []

Diğer IP:

Terminal Kutusu Yönü:

1 [] 2 [] 3 [] 4 []

Termistör:

Var [] Yok []

Fren Durumu:

Var [] Yok []

Atex:

2G [] 2D [] Yok []

Diğer:

Diğer Notlar:

.....
.....
.....
.....
.....
.....
.....
.....

Lütfen doğru redüktör seçimi yapabilmek için gerekli bilgileri doldurunuz!

EN GEARBOX SELECTION FORM

1- GEAR UNIT

Sector for which will be used:

Application area:.....

Daily working hour: :

<4 [] 4-8 [] 8-16 [] >16 []

Revolution per hours:

0-50 [] 50-100 [] 100-200 [] 200-300 []
300-500 [] 500-700 [] 700-1000 [] >1000 []

Input option: With motor [] Without motor []

Requested Motor Power:.....kW

Requested Motor Rotation:.....min⁻¹

Requested Output Rotation:.....min⁻¹

2 - INPUT - OUTPUT

Drive type:

AC Motor [] AC Motor + Invertor [] Servo Motor []
Hydromotor [] Free Input Shaft [] Diđer []

Motor Connection Flange (With Electric Motor):

Direct [] IEC B5 [] PAM B5 []
PAM B14 [] NEMA []

Property of Input Shaft (with free input shaft):

With Key [] Other.....

Driving type of Input Shaft(with free input shaft):

Elastic Coupling [] Hydraulic Coupling [] For Chain Drive With Low Speed []
For Spur Gear [] For Trigger Belt [] For V belt [] Flat Belt With Spanning Pulley []

Input Shaft Load case (with free input shaft):

Radial Load.....N
Axial Load.....N / Draw [] Impression []

Property of Output Shaft (with free input shaft):

Solid Shaft [] Hollow shaft [] Shaft for Shrink Disc []
Other.....

Output Shaft Drive type:

Direct [] Elastic Coupling [] Hydraulic Coupling [] Chain Drive With Low Speed []
Spur Gear [] Trigger Belt [] V Belt [] Flat Belt With Spanning Pulley []

Output Shaft Load case:

Radial Load.....N
Axial Load.....N / Draw [] Impression []

3 - MOUNTING

Mounting Position:

M1 [] M2 [] M3 [] M4 [] M5 [] M6 []

Backstop Situation:

Yes [] No []

Altitude above sea level:

0-1000 [] 1000-2000 [] 2000-3000 [] 3000-4000 [] 4000-5000 []

Ambient Situation:

Open (1,25 m/sn) [] Close (4 m/sn) []

Ambient Conditions:

Normal [] Dusty [] Humid [] Dry []

Other.....

Ambient Temperature :°C

4 - MOTOR

Elektrical Value:

Voltage.....V
Frequency.....Hz

Protection Class :

IP55 [] IP65 [] Exproof []

Other IP.....

Terminal Box Position:

1 [] 2 [] 3 [] 4 []

Thermistor :

Yes [] No []

Brake Situation:

Yes [] No []

Atex:

2G [] 2D [] Yok []

Other.....

Other Notes:

.....
.....
.....
.....
.....
.....
.....
.....

Please give required informations for selecting correct reducer!

DE FORMULAR FÜR GETRIEBEAUSWAHL

1- GETRIEBE

Sektor :

Anwendungsbereich:.....

Betriebsstunden/Tag:

<4 [] 4-8 [] 8-16 [] >16 []

Anlauf pro Stunde:

0-50 [] 50-100 [] 100-200 [] 200-300 []
300-500 [] 500-700 [] 700-1000 [] >1000 []

Antriebsoption: mit Motor [] ohne Motor []

Geforderte Motorleistung:.....kW

Angeforderte Motordrehzahl:.....min⁻¹

Angeforderter Abtriebsdrehzahl:.....min⁻¹

2 - ANTRIEB - ABTRIEB

Antriebstyp:

Wechselstrommotor [] Wechselstrommotor + Wechselrichter [] Servomotor []
Hydromotor [] Freie Antriebswelle [] Sonstiges []

Motoranschlussflansch (bei Elektromotor):

Gekoppelt [] IEC B5 [] PAM B5 []
PAM B14 [] NEMA []

Antriebswelleneigenschaft (bei freier Antriebswelle):

mit Passfeder [] Sonstiges.....

Antriebsart der Antriebswelle (bei freier Antriebswelle):

Elastische Kupplung [] Hydraulische Kupplung [] Kettenrad bei kleinen Drehzahlen []
Stirnrad [] Zahnriemen [] Keilriemen [] Spannrollenriemen []

Belastungsart der Antriebswelle (bei freier Antriebswelle):

Radiale BelastungN
Axiale Belastung.....N / Zug [] Druck []

Abtriebswelleneigenschaft (bei freier Antriebswelle):

Vollwelle [] Hohlwelle [] Welle mit Schrumpfscheibe []
Sonstiges.....

Antriebsart der Abtriebswelle:

Direkt [] Elastische Kupplung [] Hydraulische Kupplung [] Stirnrad [] Keilriemen []
Kettenrad bei kleinen Drehzahlen [] Zahnriemen [] Spannrollenriemen []

Belastungsart der Abtriebswelle:

Radiale BelastungN
Axiale Belastung.....N / Zug [] Druck []

3 - MONTAGE

Einbaulage:

M1 [] M2 [] M3 [] M4 [] M5 [] M6 []

Rücklaufsperre:

Ja [] Nein []

Höhe über dem Meeresspiegel:

0-1000 [] 1000-2000 [] 2000-3000 [] 3000-4000 [] 4000-5000 []

Umgebungsbedingungen:

Ein (1,25 m/sn) [] Aus (4 m/sn) []

Umweltbedingungen:

Normal [] staubig [] feucht [] trocken []

Sonstiges.....

Umgebungstemperatur:.....°C

4 - MOTOR

Elektrischer Wert:

Stromspannung.....V
Frequenz.....Hz

Schutzklasse:

IP55 [] IP65 [] Ex-geschützt []

Andere IP.....

Ausrichtung des Klemmenkastens:

1 [] 2 [] 3 [] 4 []

Thermistor:

Ja [] Nein []

Bremse:

Ja [] Nein []

Atex:

2G [] 2D [] Nein []

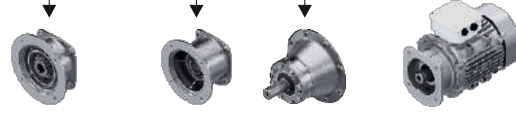
Sonstiges.....

Andere Notizen:

.....
.....
.....
.....
.....
.....
.....
.....

Bitte geben Sie die notwendigen Informationen an, um das richtige Getriebe auswählen zu können!

PKD 6390/32 297.35 DA/KS – PAM 90 - B5 – 90L / 4 BRE – R



PAM B5	PAM B14	IEC	W
63	63	63	109
71	71	71	122
80	80	80	125
90	90	90	172
100	100	100	213
112	112	112	288
132	132	132	397
160		160	
180		180	
200		200	
225		225	
250		250	
280		280	
315		315	

Çıkış Yönü - L/R: Sol/Sağ
Output Direction - L/R: Left/Right
Abtriebsrichtung - L/R: Links/Rechts

27 - 39

Motor Gövde Büyüklüğü
Case Width
Kistenweite

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/M
250 S/M/L
280 S/M/L
315 S/M/L

Kutup Sayısı
Number of Poles
Anzahl der Pole

2
4
6
2 - 4
2 - 8

Motor Aksesuarları
Motor Accessories
Motorzubehör

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

Diğer Kutup kombinasyonları istendiğinde karşılanacaktır.
Other pole combinations on request
Andere Polkombinationen sind auf Anfrage erhältlich.

24

İges: Tahvil Oranı
İges: Reduction Ratio
İges: Übersetzungsverhältnis

79 - 183

185 - 284

Standart Ürünler
Available standard products / Standardprodukte

DA/KS: Ayak montajlı, Delik millî, Konik sıkırmalı
DA/KS: Foot mounted, Hollow shaft, Shrink disc connector
DA/KS: Fußbefestigung, Hohlwelle, Schrumpfscheibe

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	

27 - 39

6
Gövde Büyüklüğü
Case Width
Gehäusegröße

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

3
Kademe
Reduction
Stufen

2
3
4

185 - 284

90°
Giriş-Çıkış Açısı
Angle between
input-output
Antriebs- und
Abtriebswelle 90°

PF GÖVDE
PF CASE
PF GEHÄUSE

3
Gövde Büyüklüğü
Case Width
Gehäusegröße

3
4
5
6

185 - 284

2
Kademe
Reduction
Stufen

2
3

Tip: PKD

Helisel Konik Dişli Redüktör
Helical - Bevel Geared Motor
Kegelstirnradgetriebemotoren

* İki kademeli, Konik Dişli Redüktör
* Double Reduction, Helical Bevel Gear Unit
* Zweistufiges, Kegelstirnradgetriebe

TR

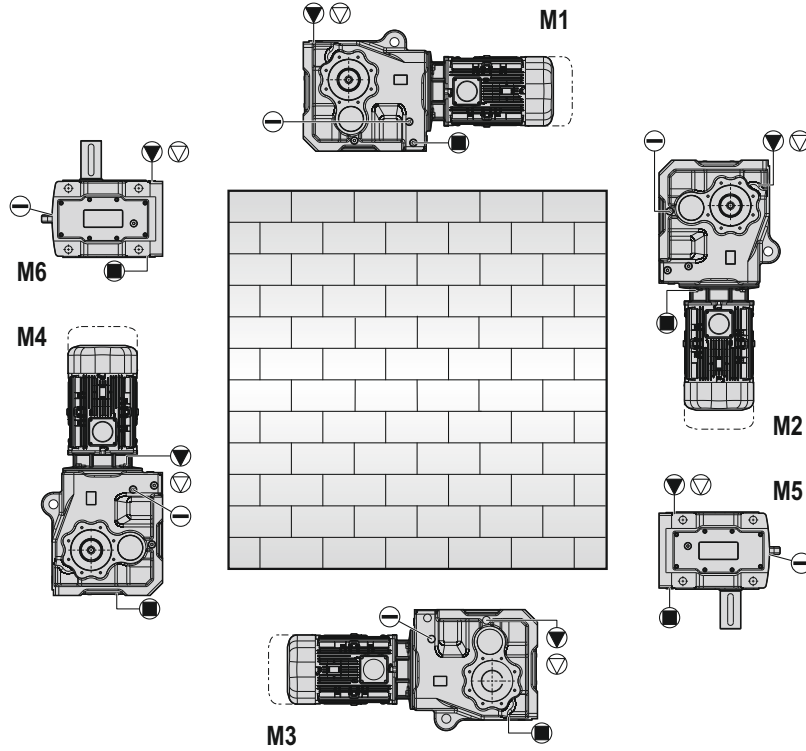
MONTAJ POZİSYONLARI

EN

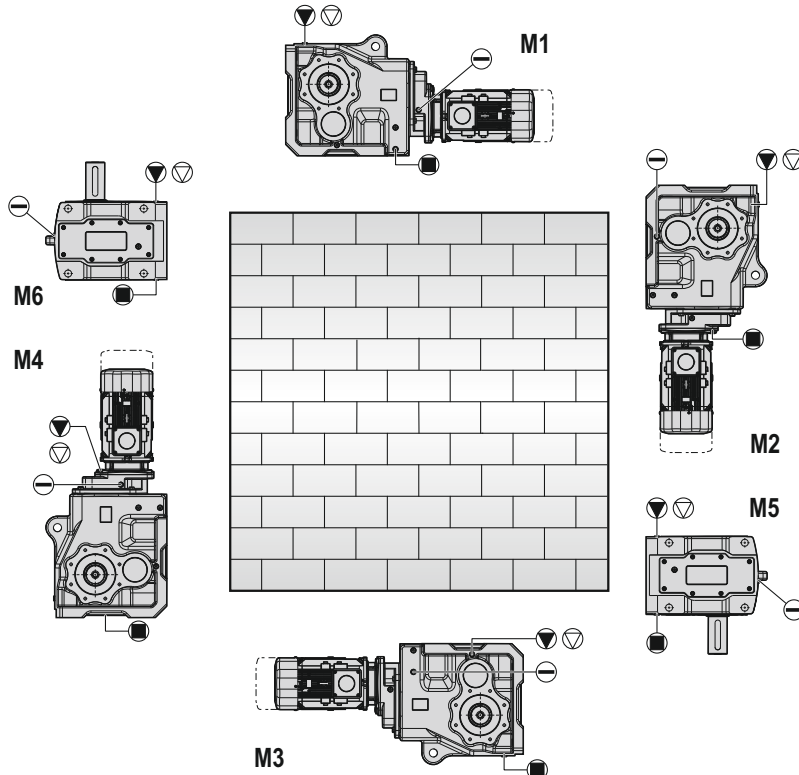
MOUNTING POSITIONS

DE

MONTAGEPOSITIONEN

AYAK MONTAJLI
FOOT MOUNTED
FUBBEFESTIGUNG


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

▽ Havalandırma tapası /
 Vent plug / Entlüftung

● Doldurma tapası /
 Filling plug / Einfüllstopfen

○ Yağ Seviye tapası /
 Oil level / Ölstand

■ Boşaltma tapası /
 Drain plug / Ölablass

TR

MONTAJ POZİSYONLARI

EN

MOUNTING POSITIONS

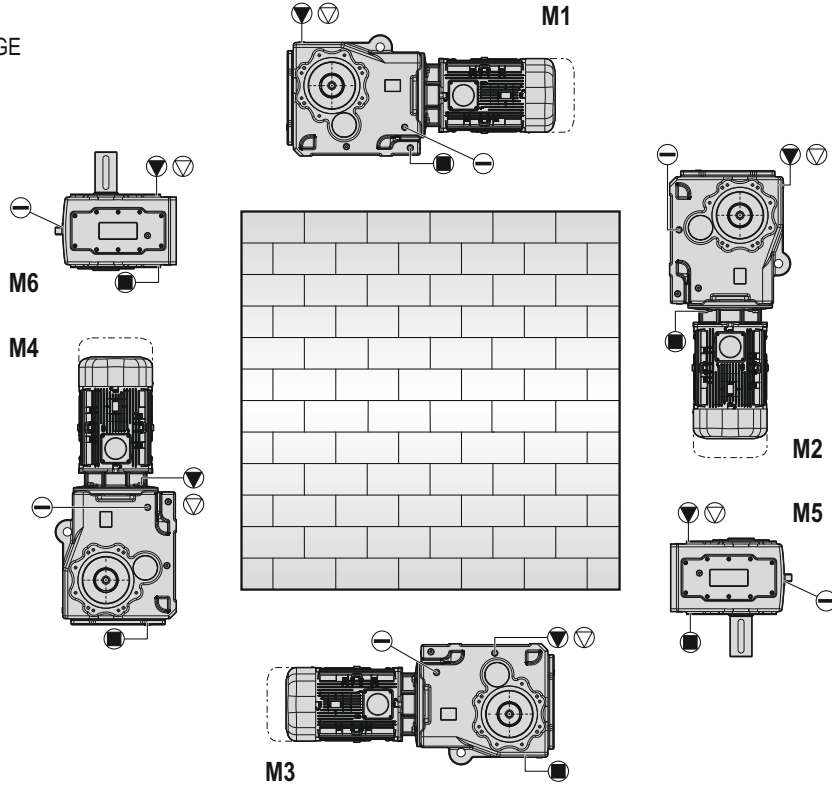
DE

MONTAGEPOSITIONEN

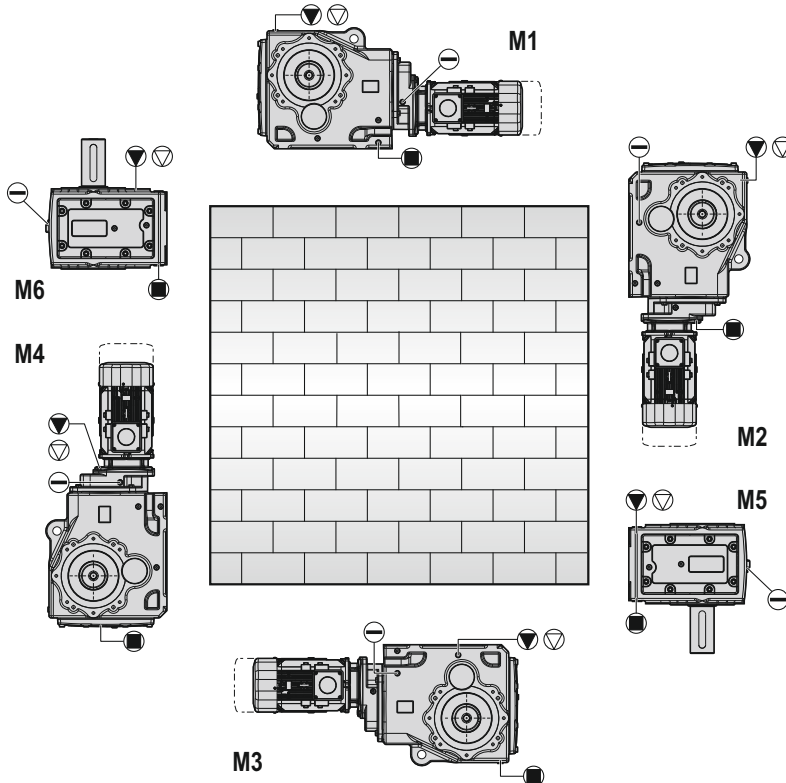
GÖVDEDEN MONTAJLI

CASE MOUNTED

GEHÄUSE FLANSCHMONTAGE



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

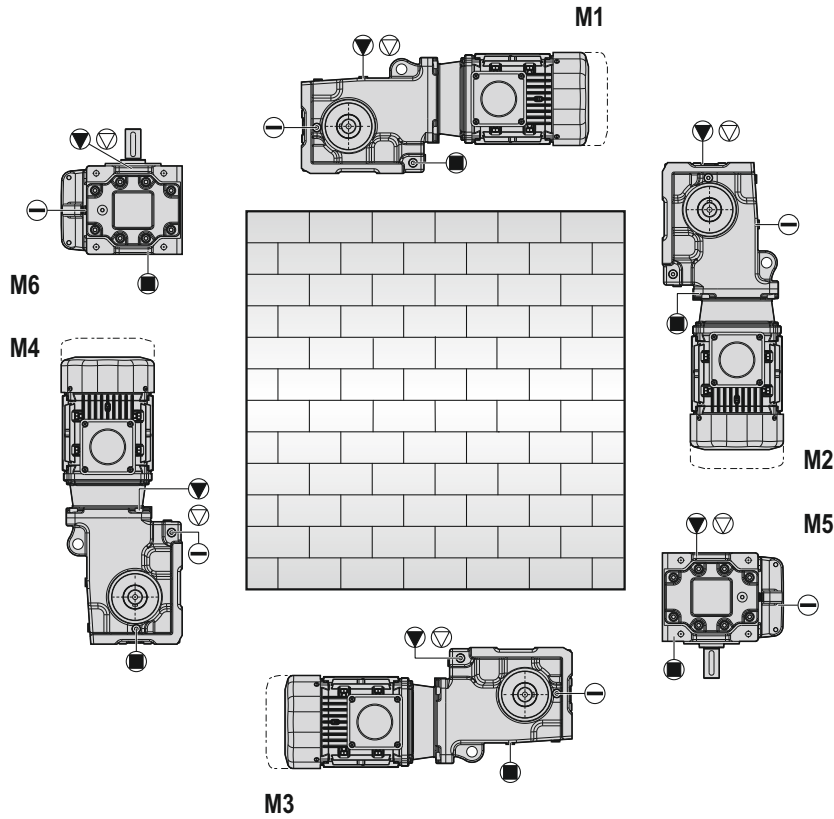
▽ Havalandırma tapası /
Vent plug / Entlüftung

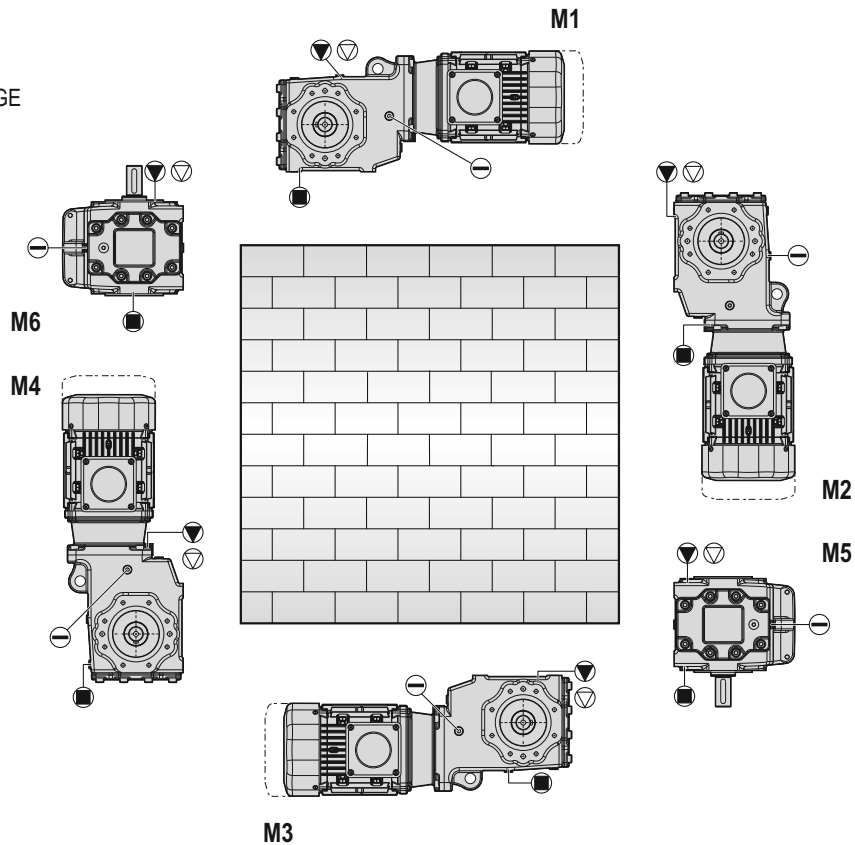
● Doldurma tapası /
Filling plug / Einfüllstopfen

○ Yağ Seviye tapası /
Oil level / Ölstand

■ Boşaltma tapası /
Drain plug / Ölablass

TR MONTAJ POZİSYONLARI EN MOUNTING POSITIONS DE MONTAGEPOSITIONEN

 AYAK MONTAJLI
 FOOT MOUNTED
 FUBBEFESTIGUNG

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

 GÖVDEDEN MONTAJLI
 CASE MOUNTED
 GEHÄUSE FLANSCHMONTAGE

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

 ◊ Havalandırma tapası /
 Vent plug / Entlüftung

 ● Doldurma tapası /
 Filling plug / Einfüllstopfen

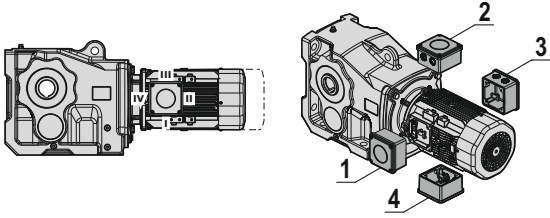
 ⊖ Yağ Seviye tapası /
 Oil level / Ölstand

 ● Boşaltma tapası /
 Drain plug / Ölablass

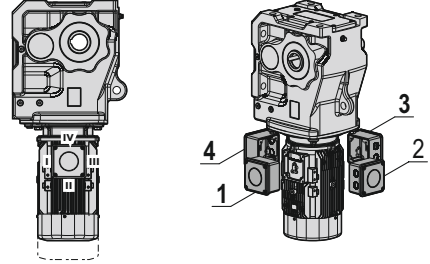
PKD

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

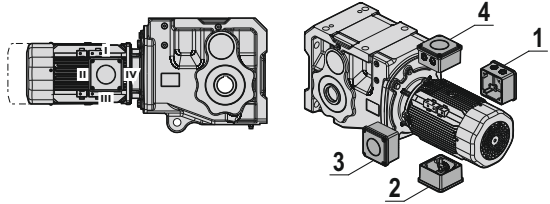
M1



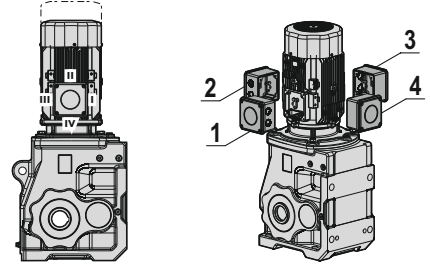
M2



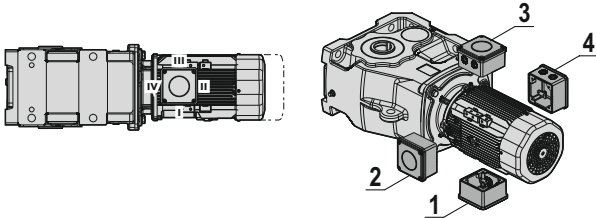
M3



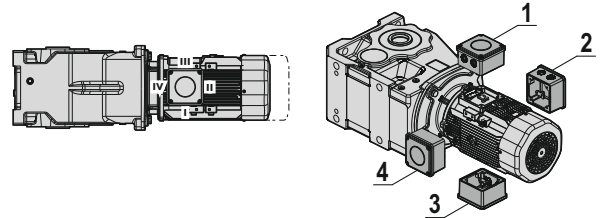
M4



M5



M6



* 1 - 2 - 3 - 4 : Terminal kutusu yönlerini gösterir.

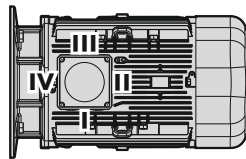
* I - II - III - IV: Kablo giriş yönlerini gösterir.

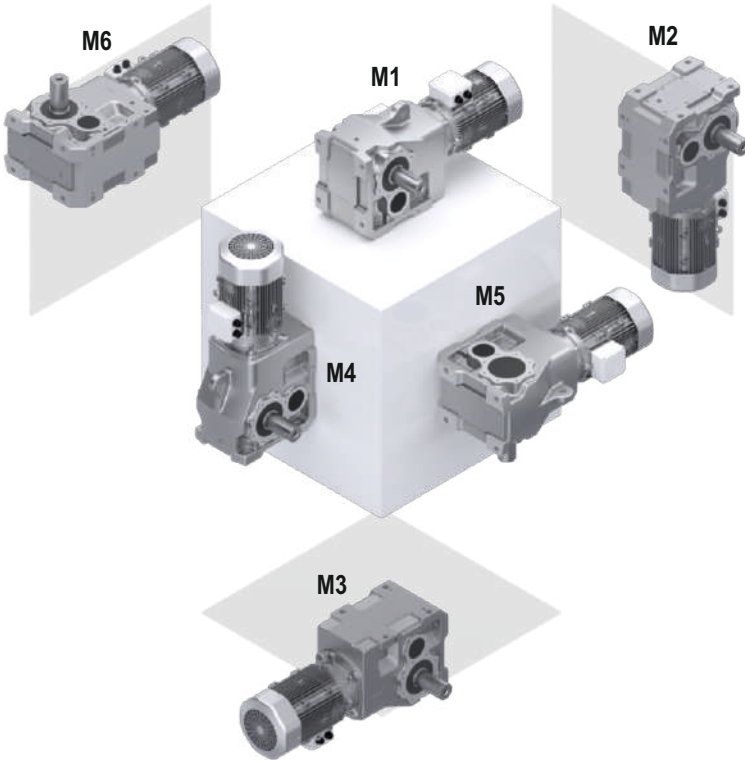
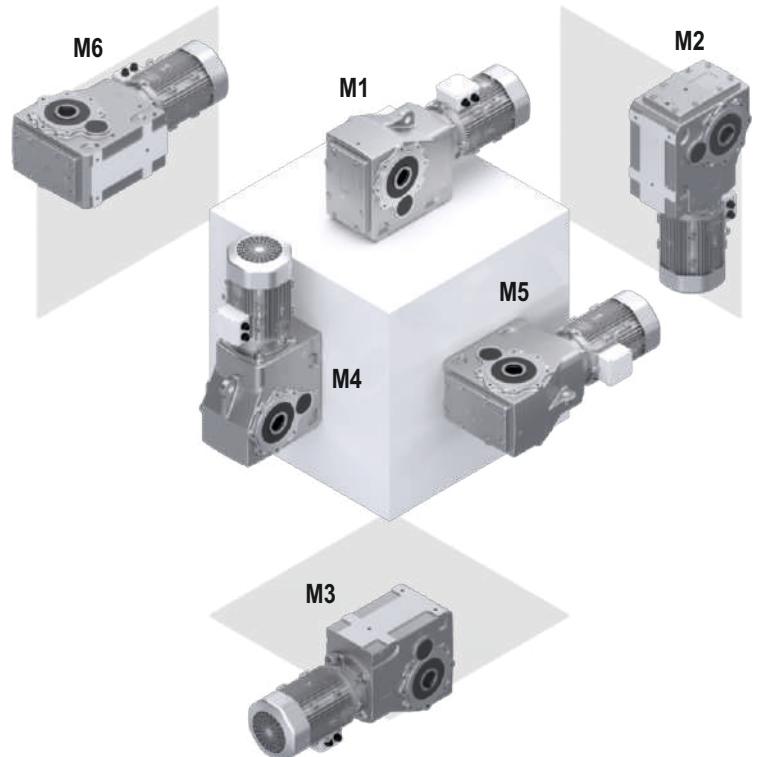
* 1 - 2 - 3 - 4 : Shows terminal box position

* I - II - III - IV: Shows cable entry position

* 1 - 2 - 3 - 4 : Zeigt die Position des Klemmkastens an

* I - II - III - IV: Zeigt die kabeleinführungsposition an



AYAK MONTAJLI
FOOT MOUNTED
FUßBEFESTIGUNGGÖVDEDEN MONTAJLI
CASE MOUNTED
GEHÄUSE FLANSCHMONTAGE

Redüktör içerisindeki yağın basıncının artması yağ sızıntılarına neden olabilmektedir. Bunu önlemek için çalıştırılmadan ya da uzun süreli depolama yapılmadan önce havalandırma tapasının kapağı sökülmelidir.

Montaj aşamasında redüktörlerimiz en uygun mineral yağ ile yağlama prosesini en iyi yapacak şekilde doldurur ve sevkiyatta bu şekilde gönderilir. Yapılan bu ilk doldurma, aşağıdaki tablodan uygun ortam sıcaklığına karşılık gelen (normal tasarım) uygun yağlayıcı ile yapılır. Bunlar dışındaki ortam sıcaklıkları için uygun yağlayıcılar ek bir ücret karşılığında tarafımızca temin edilebilir.

Redüktöre doldurulan yağlayıcı (mineral yağ) her 10000 saat çalışma süresi ya da 2 yıl içinde değiştirilmelidir. Eğer sentetik yağlayıcı kullanılır ise bu süreler 2 katına çıkarılabilir. Yani her 20000 saat veya 4 yılda bir değişim sağlanabilir. Çalışma süresi saat cinsinden belirtilen süreye gelmiş ise yağ değişimi için çalışma yılının dolması beklenmez. Yağ değişiminin daha sık aralıklarla yapılması tavsiye edilir. Bu gibi durumlarda yağ değişiminin yanı sıra kapsamlı bir temizlik de yapılmalıdır.

Yağ değişimi sonrasında özellikle ilk dolulmadan sonra ilk birkaç saatlik çalışma esnasında yağ seviyesinde azalmalar gözlemlenebilir. Bu azalma tolerans dahilinde de öngörülen bir azalmadır.

Müşterinin açık talebi üzerine ek bir ücret karşılığında yağ seviyesi gösterge tapası takabilmekteyiz. Yağ seviyesi gösterge tapası kullanarak müşterinin yağ seviyesini gözlemlemesi ve yaklaşık olarak seviye düzeltmesini yapmasını tavsiye ederiz. İki saatlik bir operasyonel çalışmanın ardından redüktör stabil bir hale gelir ve soğur. Bu süre zarfında yağ seviyesi gösterge tapasından gerekli kontrol yapılır ve gerekli yağ seviye düzeltmesi yapılabilir.

Redüktör normal olarak mineral yağ ile dolu olarak gelmektedir. Extra ücretlendirme ile sentetik yağ talep edilebilir.

-30°C nin altında ve 60°C nin üzerindeki ortam sıcaklıkları için shaft üzerinde kullanılan tüm sızdırmazlık elemanları özel kalite malzeme olmalıdır.

If the pressure of oil within reducer increases, there may be leakage. To prevent this, before working or storage for a long time, the cover of ventilation plug should be removed.

At montage step, reducers are filling with more suitable mineral oil and this oil makes lubrication process the best. Products are sent to shipment in this way. This initial filling is done with suitable lubricant corresponding to the appropriate ambient temperature (normal design) from the table below. Lubricants which are suitable for temperatures other than these ambient temperatures can be supplied by us with an additional cost.

The lubricant (mineral oil) which is filled to the reducer should be changed every 10000 hours of operation or at most two years period. If synthetic oil is used, these times could be twice. That is, it can be replaced every 20000 hours of operation or 4 years period. If the working time has reached the specified time in hours, it is not necessary to wait finish working year. It is advised that you should change lubricant more frequently. In this case, addition to lubrication change, you should clean it comprehensively. After changing lubrication, especially for first time, you can see decrease at lubrication level. This decrease is in our tolerance.

If our customer has request from us for oil level plug, we can deliver it with additional costs. We advice to customer that they should check oil level by oil level plug, and correct oil level. After operational working 2 hours, the reducer will be stable and cool. In this time period, you can check oil level from the window of oil level plug and correct oil level.

Normally, reducer will come with mineral oil but, with extra price, you can obtain synthetic oil.

Different materials should be used for sealingrings at operation temperature where temperature is below -30 °C and above 60 °C

Vor Inbetriebnahme und längerem Lagern ist der Verschleiß der Entlüftungsschraube zu entfernen, um einen Überdruck im Getriebe und eine damit verbundene mögliche Undichtigkeit zu vermeiden.

Getriebe sind bei der Auslieferung, betriebsfertig mit geeignetem Mineralöl befüllt. Die Erstbefüllung erfolgt mit geeignetem Schmierstoff entsprechend der geeigneten Umgebungstemperatur (Normalausführung) aus der folgenden Tabelle. Für andere Umgebungstemperaturen sind die entsprechenden Schmierstoffe gegen Mehrpreis erhältlich. Bei Befüllung mit Mineralöl sollte ein Schmierstoffwechsel alle 10.000 Betriebsstunden oder nach zwei Jahren durchgeführt werden. Bei synthetischem Öl verdoppeln sich diese Laufzeiten. Ein Wechsel kann somit alle 20.000 Stunden oder 4 Jahre durchgeführt werden. Wenn die Betriebszeit die angegebene Zeit in Stunden erreicht hat, ist das Betriebsjahr für den Ölwechsel nicht abzuwarten. Kürzere Intervalle für den Ölwechsel werden empfohlen. Es ist empfehlenswert, den Schmierstoffwechsel mit gründlicher Reinigung des Getriebes zu verbinden. Nach einem Schmierstoffwechsel und insbesondere nach der Erstfüllung kann sich der Ölstand in den ersten Betriebsstunden geringfügig ändern, da sich Ölkanäle und Hohlräume erst im Betrieb langsam füllen. Der Ölstand liegt dann immer noch in der zulässigen Toleranz.

Falls auf ausdrücklichen Kundenwunsch gegen Mehrpreis ein Ölschauglas eingebaut wird, empfehlen wir kundenseitig den Ölstand zu beobachten und diesen ungefähr zu korrigieren. Nach zwei Stunden Betriebszeit stabilisiert sich das Getriebe und kühlt ab. Während dieser Zeit erfolgt die notwendige Kontrolle über das Ölschauglas und die notwendige Ölstandskorrektur kann vorgenommen werden. Die Normalbefüllung der Getriebe ist Mineralöl. Synthetisches Öl ist gegen Mehrpreis lieferbar.

Bei Umgebungstemperaturen unterhalb -30°C und oberhalb 60°C sind alle an der Welle verwendeten Dichtelemente in besonderer Werkstoffqualität einzusetzen.

Not: Sentetik ve mineral yağlayıcılar birbirine karıştırılmamalıdır.

Note: It is important that different kinds of oil (synthetic and mineral oil) should not be mixed.


Bemerkung: Synthetische und mineralische Schmierstoffe dürfen nicht gemischt werden.

Redüktör Tipi Type of gearbox Getriebetyp	Yağ Tipi Type of Lubricant Schmierstoffsorte	Ortam Sıcaklığı / Ambient Temp. °C / Umgebungstemperatur	ISO viskozite sınıfı viscosity class Viskositätsklasse	SHELL	MOBİL	BP	ESSO	DEA	ARAL	CASTROL	TRIBOL	KLÜBER
Helisel Dişli Redüktör Helical Gearboxes	Mineral yağ Mineral oil Mineralöl	- 5...40 Normal	ISO VG 220	Shell Omala Oel 220	Mobilgear 600 XP 220	Energol GR-XP 220	Spartan EP 220	Deagear DX SAE 85W-90 Falcon CLP 220	Degol BG 220	Alpha SP 220 Alpha MW 220 Alpha MAX 220	Tribol 1100/220	Klüberoil GEM 1-220
		-15...25	ISO VG 100	Shell omala Oel 100	Mobilgear 600 XP 150	Energol GR-XP 100	Spartan EP 100	Deagear DX SAE 80W Falcon CLP 150	Degol BG 100	Alpha SP 100 Alpha MW 100 Alpha MAX 220	Tribol 1100/100	Klüberoil GEM 1-100
	# - 50...-15	ISO VG 15	Shell Tellus Oel T 15	Mobil DTE 10 Excel 15	Bartran HV 15	Univis J 13	Alkraft Hydraulic Oil 15	Vitamol 1010	Hypsin SP 15 Hypsin ZZ 15	Tribol 770	Isoflex MT 30 rot	
Stirradgetriebe	Sentetik yağ Synthetic oil Synthetisches Öl	- 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
		- 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 Lebensmittelöle	- 25...80	ISO VG 220	Cassida 220	Mobil SHC Cibus 220		GEAR OIL FM 220	Renolin 220	Degol FG 220	OPTIMOL optleb GE 220	Tribol Food Proof 1810/220	Klüberoil 4UH1 - 220
Rulmanlar Bearings Lager	Akışkan sentetik gres Synthetic fluid grease Fließendes synthetisches Fett	- 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
		- 30...60 Normal		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
	# 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	

AYAK MONTAJLI / FOOT MOUNTED / FUßBEFESTIGUNG


İKİ KADEME / DOUBLE STAGE / ZWEISTUFIG

Yağ Miktarı - Litre (L) / Amount of oil - Liter (L) / Ölmenge - Liter (L)

	Tip / Type Typ	M1	M2	M3	M4	M5	M6
	PKD A 0290	0.40	0.70	0.50	0.60	0.40	0.50
PKD B 0290	0.50	1.00	1.00	1.10	0.60	0.80	
PKD C 1290	1.00	1.50	1.50	1.90	0.90	1.40	
PKD F 4290	1.90	3.00	3.00	3.90	2.20	2.20	
PKD H 5290	2.40	4.40	4.50	5.80	3.30	3.30	


ÜÇ KADEME / TRIPLE STAGE / DREISTUFIG

Yağ Miktarı - Litre (L) / Amount of oil - Liter (L) / Ölmenge - Liter (L)

	Tip / Type Typ	M1	M2	M3	M4	M5	M6
	PKD 1390	0.70	1.80	1.90	2.00	1.80	1.80
PKD G 1390	0.80	1.90	1.80	2.00	1.80	1.80	
PKD 2390	1.20	2.90	3.30	3.60	2.80	2.90	
PKD 3390	1.90	5.30	6.00	6.40	5.20	5.20	
PKD 4390	2.90	8.80	9.20	9.20	7.70	7.60	
PKD 5390	6.00	16.0	17.80	19.50	14.50	14.50	
PKD 6390	10.10	28.00	31.30	34.70	26.40	24.50	
PKD 7390	10.10	28.00	29.80	32.00	26.40	24.50	
PKD 8390	17.20	52.00	60.00	66.00	50.00	47.00	
PKD G 8390	29.30	73.50	83.00	96.50	69.00	62.50	
PKD 9390	42.00	128.00	144.00	160.00	116.00	106.00	
PKD G 9390	74.60	188.00	207.00	252.00	185.00	155.00	

DÖRT KADEME / QUADRUPLE STAGE / VIERSTUFIG


Yağ Miktarı - Litre (L) / Amount of oil - Liter (L) / Ölmenge - Liter (L)

	Tip / Type Typ	M1	M2	M3	M4	M5	M6
	PKD 1490	1.60	2.30	2.40	2.70	2.00	2.20
PKD G 1490	1.60	2.30	2.40	2.70	2.10	2.20	
PKD 2490	2.70	3.30	3.90	4.40	3.10	3.40	
PKD 3490	3.40	6.00	7.00	7.80	5.30	5.70	
PKD 4490	5.00	10.00	10.80	12.50	8.90	9.40	
PKD 5490	12.50	17.10	19.20	23.60	16.10	16.90	

GÖVDEDEN MONTAJLI / CASE MOUNTED / GEHÄUSE FLANSCHMONTAGE


İKİ KADEME / DOUBLE STAGE / ZWEISTUFIG

Yağ Miktarı - Litre (L) / Amount of oil - Liter (L) / Ölmenge - Liter (L)

	Tip / Type Typ	M1	M2	M3	M4	M5	M6
	PKD B 0290	0.60	1.00	1.00	1.10	0.70	0.70
PKD C 1290	1.10	1.50	1.30	1.90	0.90	0.90	
PKD F 4290	1.50	2.80	2.80	3.50	2.10	2.10	
PKD H 5290	2.90	4.50	4.30	6.00	3.60	3.60	


ÜÇ KADEME / TRIPLE STAGE / DREISTUFIG

Yağ Miktarı - Litre (L) / Amount of oil - Liter (L) / Ölmenge - Liter (L)

	Tip / Type Typ	M1	M2	M3	M4	M5	M6
	PKD 1390	0.70	1.90	1.90	2.00	1.80	2.00
PKD G 1390	0.80	1.90	1.90	2.00	1.80	2.00	
PKD 2390	1.40	3.30	3.50	4.20	3.30	3.70	
PKD 3390	2.90	5.10	6.50	7.20	5.80	5.80	
PKD 4390	3.60	8.30	9.80	10.90	9.40	9.40	
PKD 5390	6.00	13.90	18.50	21.00	15.90	17.00	
PKD 6390	11.30	25.80	30.60	34.60	29.80	31.40	
PKD 7390	11.10	25.70	30.40	34.00	29.00	30.90	
PKD 8390	20.80	53.60	65.70	71.20	56.00	62.70	
PKD G 8390	31.00	67.30	75.80	90.80	71.70	77.90	
PKD 9390	40.50	117.40	139.50	156.80	121.60	131.50	
PKD G 9390	74.10	188.00	194.00	249.40	170.00	190.00	

DÖRT KADEME / QUADRUPLE STAGE / VIERSTUFIG

Yağ Miktarı - Litre (L) / Amount of oil - Liter (L) / Ölmenge - Liter (L)

	Tip / Type Typ	M1	M2	M3	M4	M5	M6
	PKD 1490	1.80	2.30	2.30	2.70	2.20	2.20
PKD G 1490	1.80	2.30	2.30	2.70	2.20	2.20	
PKD 2490	3.00	3.40	3.90	4.90	3.30	3.70	
PKD 3490	4.90	5.50	7.10	8.40	5.70	6.40	
PKD 4490	8.30	9.60	10.80	13.50	10.90	10.90	
PKD 5490	14.10	15.30	19.50	24.40	16.70	17.30	

TR

KİLİT

Opsiyonel olarak redüktörlerimize kilit sistemi koymaktayız. Kilit sistemimiz yalnızca tek bir dönüş yönüne müsaade vermektedir (saat yönü ya da saatin tersi yönü). Aksi yönde dönüş, kilit sistemi tarafından engellenmektedir.

Üç fazlı motor gövde büyüklüğü 80 ve üzeri AC motorlar ve W (serbest giriş mili) kovanları yağlaması yapılmış kilit sistemi ile donatılabilir.

Kilit sistemi istenildiğinde çıkartılabilir. Kilit sistemi merkezkaç kuvveti tarafından kontrol edilir ve dönüş hızı $n_1 > 900$ dev/dk ise yağlanma ile aşınmaz çalışır.

Dönüş yönünün tanımlanması her zaman çıkış şaftına ya da miline göre olur. Konik sıkırtma kullanılan redüktörlerde konik sıkırtma diski, kullanılan konik sıkırtma şaftının aksi tarafında bulunur. Konik sıkırtmalı redüktörler için dönüş yönü, konik sıkırtmalı şafta göre belirlenir.

Dikkat: Sistemi devreye almadan önce motorun ve redüktörün dönüş yönleri kontrol edilmelidir. Redüktör üzerindeki oklar size dönüş yönünü gösterecektir.

CW : Saat yönü

CCW : Saat yönü tersi

EN

BACKSTOP

Our reducers includes backstop system optionally. Backstop system permits only one direction of rotation (clockwise or counterclockwise). Opposite direction of rotation is prevented by backstop system.

Motors which are three phase and case dimensions upper than 80 and free input shafts can be used with lubricated backstop systems.

You can remove backstop system when you want. Backstop system is controlled by centrifugal force and works without corrosion if the rotation speed upper than 900 min^{-1} .

Rotation direction is decided according to output shaft. For reducers with shrink disc, it is at opposite direction of tip of output shaft which includes shrink disc connector.

Caution: Before starting, the direction of rotation of the gear unit and motor must be checked to avoid the risk of a breakage.

CW : Clockwise

CCW : Counterclockwise

DE

RÜCKLAUFSPERRE

Optional bieten wir für unsere Getriebe Rücklaufsperran. Rücklaufsperran ermöglichen den Lauf in nur eine Drehrichtung (im Uhrzeigersinn oder gegen den Uhrzeigersinn). Drehung in die entgegengesetzte Richtung wird durch die Rücklaufsperran verhindert.

Drehstrommotoren ab Baugröße 80, Wechselstrommotoren und W-Adapter (freie Antriebswelle) können mit geschmierten Rücklaufsperran ausgestattet werden.

Die Rücklaufsperran kann auf Wunsch entfernt werden. Die Rücklaufsperran ist fliehkraftgesteuert und läuft bei einer Drehzahl $n_1 > 900 \text{ U/min}$ mit Ölung verschleißfrei.

Die Drehrichtung wird immer mit Blick auf die Abtriebs-Hohlwelle oder -Vollwelle angegeben. Bei Getrieben mit Schrumpfscheibe befindet sich die Schrumpfscheibe gegenüber dem Abtriebswellenende. Die Drehrichtung für Getriebe mit Schrumpfscheibe wird auch nach diesem Abtriebswellenende bestimmt.

Achtung: Vor Inbetriebnahme der Anlage die Drehrichtung des Motors und des Getriebes prüfen. Pfeile auf dem Getriebe zeigen die Drehrichtung an.

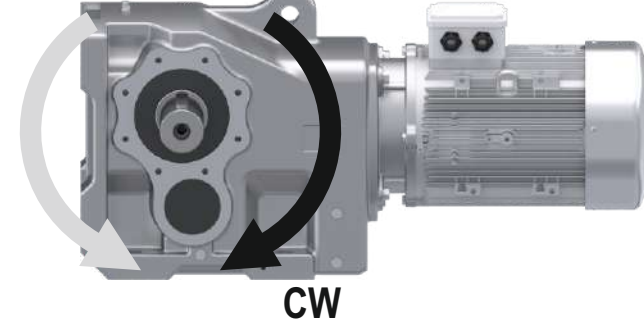
CW: Im Uhrzeigersinn

CCW: Gegen den Uhrzeigersinn

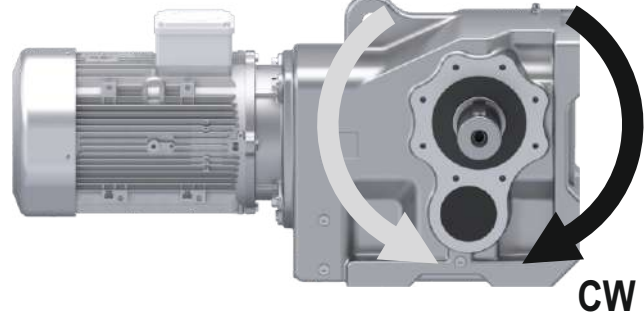
A

B

CCW



CCW



*Bütün shaft tasarımları ve çift çıkışlı shaftlar için geçerlidir. *It is valid for every shaft designs and double output shafts.

*Gilt für alle Wellenausführungen und beidseitiger Vollwelle.

TR

TOLERANSLAR

MOTOR VE REDÜKTÖRLERDE BOYUT - ÇİZİM BİLGİLERİ

Motor ölçüleri istenen opsiyona göre değişebilir.

DELİK MİLLİLER

Delik mil çapı toleransı için (DIN 748) ISO H7.
Müşteri mili çap toleransı ISO h6.
"H" yüklemeye 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 dış 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	 185-284
> Ø 38 - Ø 50	M16	
> Ø 50 - Ø 85	M20	
> Ø 85 - Ø 130	M24	

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 customer purchase.

HOLLOW SHAFTS

Tolerance of hollow shaft (DIN 748) ISO H7.
Tolerance of customer's solid shaft which is used for hollow shaft ISO h6.
With type of load classification 'H' which is 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	 185-284
> Ø 38 - Ø 50	M16	
> Ø 50 - Ø 85	M20	
> Ø 85 - Ø 130	M24	

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

DE

TOLERANZEN

ABMESSUNGEN - ZEICHNUNGSINFORMATIONEN MOTOR UND GETRIEBE

Die Abmessungen des Motors können je nach gewünschter Option geändert werden.

HOHLWELLEN

Toleranz der Hohlwellen-Durchmesser (DIN 748) nach ISO H7.
Toleranz der kundenseitigen Welle nach ISO h6, bei Lastgrad "H" nach ISO k6

IEC - ADAPTER


Toleranz der Flanschzentrierung nach ISO H7

EIN- UND AUSGANGSWELLE

Toleranz der Wellen-Durchmesser (DIN 748):

Ø 14 bis Ø 50 mm= ISO k6
> Ø 50 mm= ISO m6

Gewindebohrungen nach DIN 332/2

= 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	 185-284
> Ø 38 - Ø 50	M16	
> Ø 50 - Ø 85	M20	
> Ø 85 - Ø 130	M24	

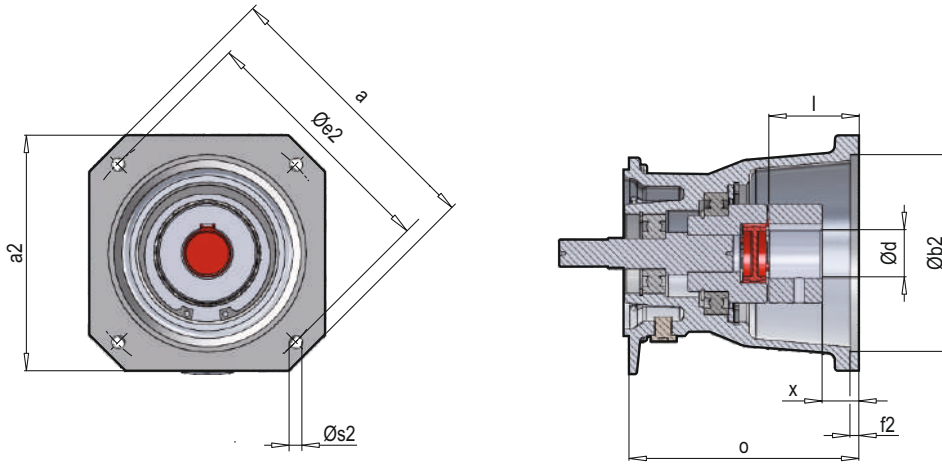
Paßfedern nach DIN 6885
Achshöhe "h" nach DIN 747

FLANSCH

Toleranz der Flanschzentrierung (DIN 42948);
≤ Ø 230 mm nach ISO j6
> Ø 230 mm nach ISO h6

TR SERVOMOTOR ADAPTÖRÜ

EN SERVOMOTOR ADAPTERS

DE ADAPTER ZUM ANBAU VON
SERVOMOTOREN

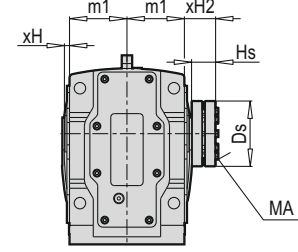
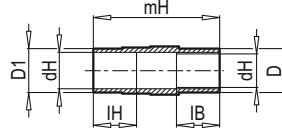
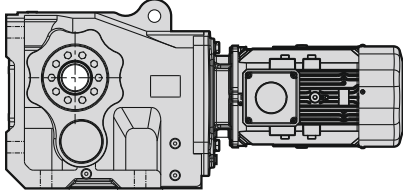
Redüktör Tipi Gear Unit Type Getriebetyp	Motor Büyüklüğü / Motor Size / Motorbaumaße							Shaft Ebatı Shaft Size Wellenmaße		Silindirik Cylinder Zylinder Ø	M _{knom} [Nm]	Adaptör tipi Adapter type Adapter typ
	a	a2	b2	e2	f2	s2	x	d	l			
PKD 1390, G 1390, 2390	120	96	80	100	4	M6	15	19	40	124	10	Servo 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 sıkırtması ile yapılmaktadır. Servo motor bağlantı adaptörünün bağlantı flanşının farklı olması durumunda yüksek adetli siparişler üretime alınır.

For connecting SEP adapter which is shown above, 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.

Der Anschluss des Servomotor-Anschlussadapters Typ SEP erfolgt mit Paßfeder. Bei den SEK-Typen erfolgt der Anschluss des Servomotoradapters durch Anziehen der Anschlussstifte. Bei abweichendem Anschlussflansch des Servomotor-Anschlussadapters werden Aufträge in hoher Stückzahl in Produktion genommen.

AYAK MONTAJLI /
FOOT MOUNTED / FUSSMONTAGE, (DAKS)



Redüktör Tipi Gear Unit Type Getriebetyp	Konik sıkırtırma Shrink disc connector Schrumpfscheibe						Şaft ölçüleri Shaft dimensions Wellenabmessungen								Vida tork değeri Hexagon screw Schraubendreh- momentwert			
	Tip Type Typ	Mamax [Nm]	S _{h6}	S _{f6}	D _s	H _s	D	D1	dH ^{H7}	IB	IH	mH	xH	xH2	m1	d x l	Zs	MA [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	M8x35*	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	M10x40	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	M16x90*	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 / Auf Anfrage																	

Daha iyi ve kolay montaj ve demontaj için konik sıkırtırma tavsiye edilebilir. H_s ölçüsü, civataya sıkılmadan önceki ölçüsüdür. Konik sıkırtırma genellikle kullanıcının mili kullandığı yönün karşısına montaj edilmelidir. Kullanıcı mil uzunluğu ile şaft uzunluğu (mH) uyuşmalıdır. Şaft çapı ISO h6 veya f6'ya göre imal edilmelidir. (f6= Kolay montaj)

S = h6 veya f6 ile konik sıkırtırmanın güvenilirliği.
MA = Civatayı sıkma için gerekli olan tork
Zs = Vida miktarı
Mamax = max. izin verilebilir çıkış momenti

Yukarıdaki bütün ölçüler W kovanlı, IEC ve PAM adaptörlü helisel konik dişli redüktörler için de geçerlidir.

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

S = Assurance of shrink disc (with h6 and f6 tolerance)
MA = Screw torque for tightening
Zs = Amount of screw
Mamax = maximum allowable output moment

All of the above dimensions are also valid for helical bevel gear units with free input shaft, IEC and PAM adaptor.

Zur besseren und einfacheren Montage und Demontage kann eine Schrumpfscheibe empfohlen werden. H_s ist die Größe vor dem Anziehen der Schraube. Die Schrumpfscheibe sollten grundsätzlich entgegen der Antriebsrichtung der Kundenwelle montiert werden. Die Länge der Kundenwelle muss der Hohlwelle (mH) entsprechen. Der Durchmesser der Hohlwelle sollte nach ISO h6 oder f6 gefertigt werden. (f6= einfache Montage)

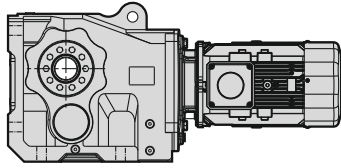
Zuverlässigkeit der Schrumpfscheibe mit S = h6 oder f6.
MA= Erforderliches Drehmoment zum Anziehen der Schraube
Zs = Schraubenanzahl
Mamax = max. zulässiges Abtriebsdrehmoment

Alle oben genannten Maße gelten auch für Kegelradgetriebe mit freier Antriebswelle, IEC- und PAM-Adapter.

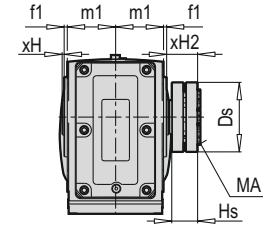
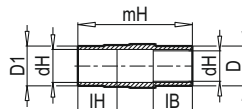
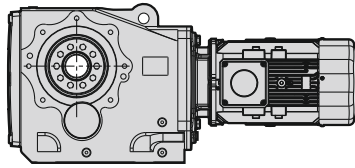
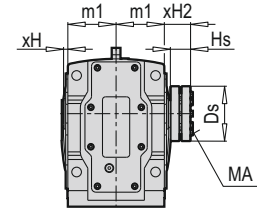
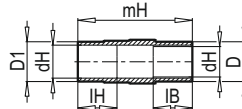
TR GÜÇLENDİRİLMİŞ KONİK SIKTIRMA

EN WITH REINFORCED SHRINK DISC CONNECTOR

DE VERSTÄRKTE SCHRUMPFSCHEIBE



GKS



	Redüktör Tipi Gear Unit Type Getriebetyp	Konik sıkırtma / Shrink disc connector / Schrupfscheibe						Şaft ölçüleri / Shaft dimensions / Wellenabmessungen								Vida tork değeri/ Hexagon screw / Schrauben- drehmomentwert			
		Tip Type / Typ	M _{amax} [Nm]	S _{h6}	S _{f6}	D _s	H _s	D	D1	dH ^{H7}	IB	IH	mH	xH	xH2	m1	d x l	Z _s	MA [Nm]
Ayak Montajlı / Foot Mounted / Fußbefestigung	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 / Auf Anfrage																	

Gövdeden Montajlı / Case Mounted / Befestigung Vom Gehäuse	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 sıkırtmalı tavsiye edilebilir. H_s ölçüsü, civata sıkılmadan önceki ölçüsüdür. Konik sıkırtma genellikle kullanıcının mili kullandığı yönün karşısına montaj edilmiştir. Kullanıcı mil uzunluğu ile şaft uzunluğu (mH) uyuşmalıdır. Şaft çapı ISO h6 veya f6'ya göre imal edilmiştir. (f6= Kolay montaj)

S = h6 veya f6 ile konik sıkırtmanın güvenilirliği.
MA = Civatayı sıkmak için gerekli olan tork
Z_s = Vida miktarı
Mamax = max. izin verilebilir çıkış momenti

Yukarıdaki bütün ölçüler W kovanlı, IEC ve PAM adaptörlü helisel konik dişli redüktörler için de geçerlidir.

Mevcut tasarımlar için 27 - 39

PGR recommends to use shrink disc for easier installation and disassembly H_s 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. S = Assurance of shrink disc (with h6 and f6 tolerances)
M = Screw torque for tightening A
Z = Amount of screw s
M = maximum allowable output moment amax

All of the above dimensions are also valid for helical bevel gear units with free input shaft, IEC and PAM adaptor.

For existing designs 27 - 39

Zur besseren und einfacheren Montage und Demontage kann eine Schrupfscheibe empfohlen werden. H_s ist die Größe vor dem Anziehen der Schraube. Die Schrupfscheibe sollten grundsätzlich entgegen der Antriebsrichtung der Kundenwelle montiert werden. Die Länge der Kundenwelle muss der Hohlwelle (mH) entsprechen. Der Durchmesser der Hohlwelle sollte nach ISO h6 oder f6 gefertigt werden. (f6= einfache Montage)

Zuverlässigkeit der Schrupfscheibe mit S = h6 oder f6.
MA= Erforderliches Drehmoment zum Anziehen der Schraube
Z_s = Schraubenanzahl
Mamax = max. zulässiges Abtriebsdrehmoment

Alle oben genannten Maße gelten auch für Kegelradgetriebe mit freier Antriebswelle, IEC- und PAM-Adapter.

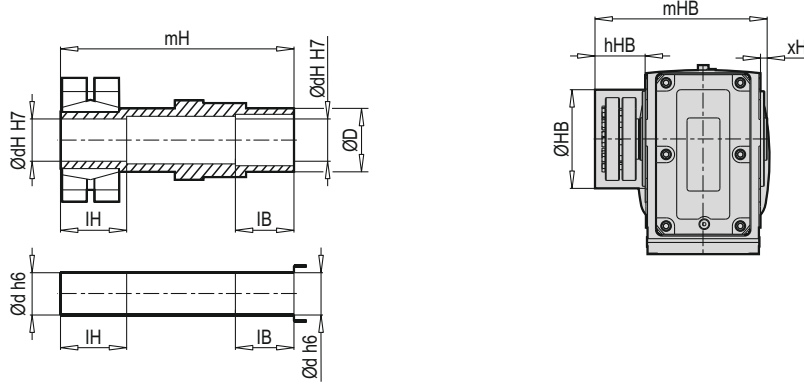
27 - 39 für aktuelle Designs

TR GÜÇLENDİRİLMİŞ KONİK SIKTIRMA
KORUMA KAPAGI

EN COVER OF REINFORCED SHRINK DISC

DE SCHUTZDECKEL FÜR VERSTÄRKTE
SCHRUMPFSCHEIBE

GKS - KK



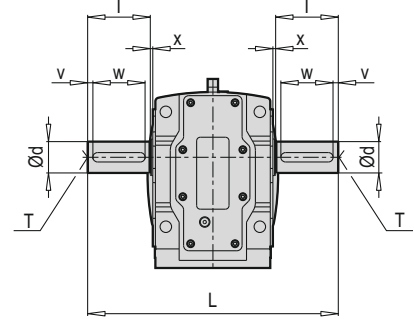
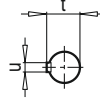
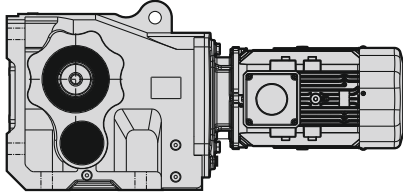
Tip / Type / Typ	ØD	ØdH H7	Ød h6	IB	IH	mH	xH	hHB	HB	mHB
PKD 6390 DG/GKS-B14 KK PKD 6390/32 DG/GKS-B14 KK PKD 6390/42 DG/GKS-B14 KK	110	85	85	80	110	464	5	149	260	489
PKD 7390 DG/GKS-B14 KK PKD 7390/32 DG/GKS-B14 KK PKD 7390/42 DG/GKS-B14 KK	120	95(85)	95(85)	80	110	464	5	149	260	489
PKD 8390 DG/GKS-B14 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

DE FUSSMONTAGE, DOPPELWELLENAUSGANG

ÇMA



Tip / Type / Typ	Şaft ölçüleri / Shaft dimensions / Wellenabmessungen								
	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 W kovanlı, IEC ve PAM adaptörlü helisel konik dişli redüktörler için de geçerlidir.

Please indicate positions of keyways when ordering.

All of the above dimensions are also valid for helical bevel gear units with free input shaft, IEC and PAM adaptor.

Bitte bei Bestellung die Positionen der Keilnuten angeben.

Alle oben genannten Maße gelten auch für Kegelradgetriebe mit freier Antriebswelle, IEC- und PAM-Adapter.

Mevcut tasarımlar için 27 - 39

For existing designs 27 - 39

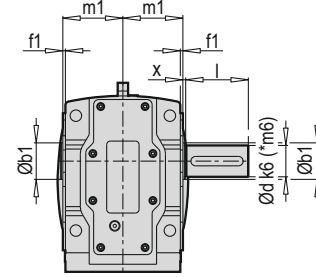
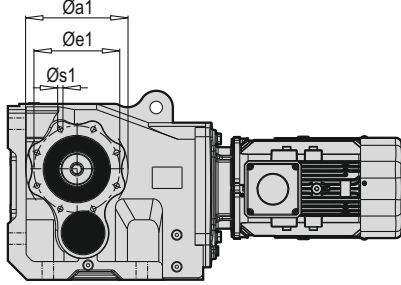
27 - 39 für aktuelle Designs

TR AYAK MONTAJLI, B14 FLANŞLI

EN FOOT MOUNTED, FLANGE B14

DE FUSSMONTAGE, B14 FLANSCH

TMA - B14



Tip Type Typ	Montaj ölçüleri Mounting dimensions Einbaumaße					Ana Ölçüler Outline dimensions Hauptabmessungen			
	a1	b1 j6	e1	f1	s1	m1	X	d	l
PKD 1390 TMA/B14 PKD 1490 TMA/B14	116	75	100	4	M8 x 13	71	4	30	60
PKD G 1390 TMA/B14 PKD G 1490 TMA/B14	116	75	100	4	M8 x 13	71	4	35	70
PKD 2390 TMA/B14 PKD 2490 TMA/B14	130	90	115	4	M8 x 13	86	5	35	70
PKD 3390 TMA/B14 PKD 3490 TMA/B14	155	100	130	5	M10 x 18	100	6	45	90
PKD 4390 TMA/B14 PKD 4490 TMA/B14	195	125	165	5	M12 x 25	115	5	*60	120
PKD 5390 TMA/B14 PKD 5490 TMA/B14	230	150	194	5	M12 x 25	145	6	*70	140
PKD 6390 TMA/B14 PKD 6390/32 TMA/B14 PKD 6390/42 TMA/B14	265	180	215	5	M12 x 25	170	7	*90	170
PKD 7390 TMA/B14 PKD 7390/32 TMA/B14 PKD 7390/42 TMA/B14	265	180	215	5	M12 x 25	170	7	*90	170
PKD 8390 TMA/B14 PKD 8390/42 TMA/B14 PKD 8390/52 TMA/B14	320	230	265	5	M12 x 25	200	8	*110	210
PKD G 8390 TMA/B14 PKD G 8390/52 TMA/B14	350	250	300	5	M16 x 30	238	9	*120	210
PKD 9390 TMA/B14 PKD 9390/52 TMA/B14	400	290	350	5	M20 x 35	295	10	*140	250
PKD G 9390 TMA/B14 PKD G 9390/62 TMA/B14 PKD G 9390/63 TMA/B14	550	310	500	5	M24 x 35	326.5	10.5	*190	320

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

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

Gültig auch für Fußbefestigung und Hohlwellen mit beidseitigen B14-Flanschen. Typ PKD 3390 DA/B14

Yukarıdaki bütün ölçüler W kovanlı, IEC ve PAM adaptörlü helisel konik dişli redüktörler için de geçerlidir.

All of the above dimensions are also valid for helical bevel gear units with free input shaft, IEC and PAM adaptor.

Alle oben genannten Maße gelten auch für Kegelradgetriebe mit freier Antriebswelle, IEC- und PAM-Adapter.

Mevcut tasarımlar için 27 - 39

For existing designs 27 - 39

27 - 39 für aktuelle Designs

TMG/B14 için sayfa 185 - 284. sayfalara bakınız.

For TMG/B14, see pages 185 - 284.

Seite 185 - 284 für TMG/B14. siehe Seiten.

TR AYAK MONTAJLI, B5 FLANŞLI

EN FOOT MOUNTED, FLANGE B5

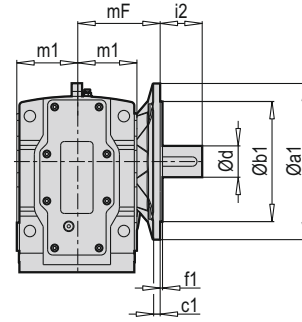
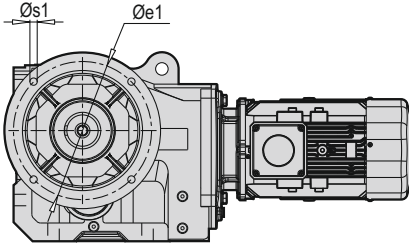
DE FUSSMONTAGE, B5 FLANSCH

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 should look for B5 flange mounted pages. (e.g. Type TMG/B5)

Dieses Design ist nicht für die Gehäusemontage geeignet. (Typ TMG/B5 für Gehäusemontage)



Tip Type Typ	Montaj ölçüleri Mounting dimensions Einbaumaße						Ana Ölçüler Outline dimensions Hauptabmessungen				
	a1	b1 ^{j6(*h6)}	c1	e1	f1	s1	i2	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

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

Hohlwellen können auch fußmontiert und B5 Flanschmontiert werden. Typ PKD 3390 DA/B5

Yukarıdaki bütün ölçüler W kovanlı, IEC ve PAM adaptörlü helisel konik dişlili redüktörler için de geçerlidir.

All of the above dimensions are also valid for helical bevel gear units with free input shaft, IEC and PAM adaptor.

Alle oben genannten Maße gelten auch für Kegelradgetriebe mit freier Antriebswelle, IEC- und PAM-Adapter.

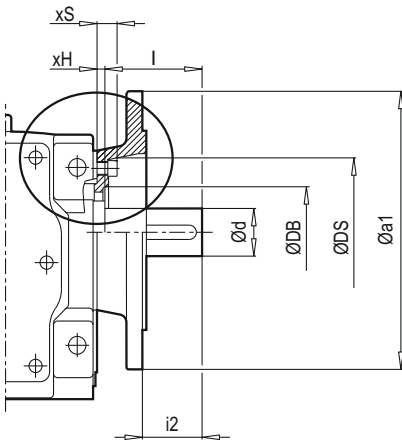
Mevcut tasarımlar için 27 - 39

For existing designs 27 - 39

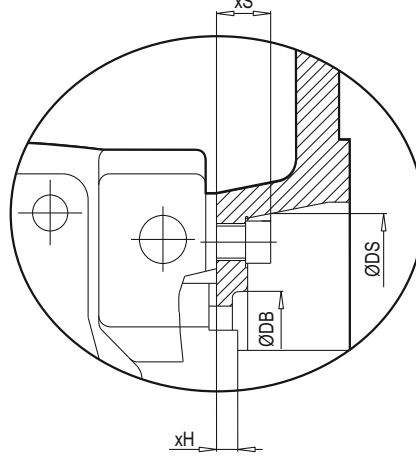
27 - 39 für aktuelle Designs

AYAK MONTAJLI B5 FLANŞLI /
FOOT MOUNTED WITH B5 FLANGE / FUSSMONTAGE B5 FLANSCH

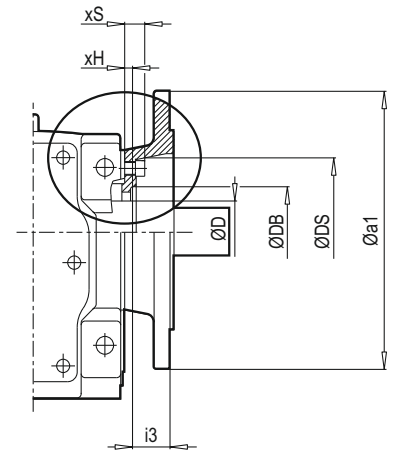
TMA - B5 / DA - B5



TMA



DA



Tip Type Typ	Flanş ø Flange ø Flansch ø	Şaft ölçüleri Shaft dimensions Wellenabmessungen					Ana Ölçüler Outline dimensions Hauptabmessungen				
	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 W kovanlı, IEC ve PAM adaptörlü helisel konik dişli redüktörler için de geçerlidir.

All of the above dimensions are also valid for helical bevel gear units with free input shaft, IEC and PAM adaptor.

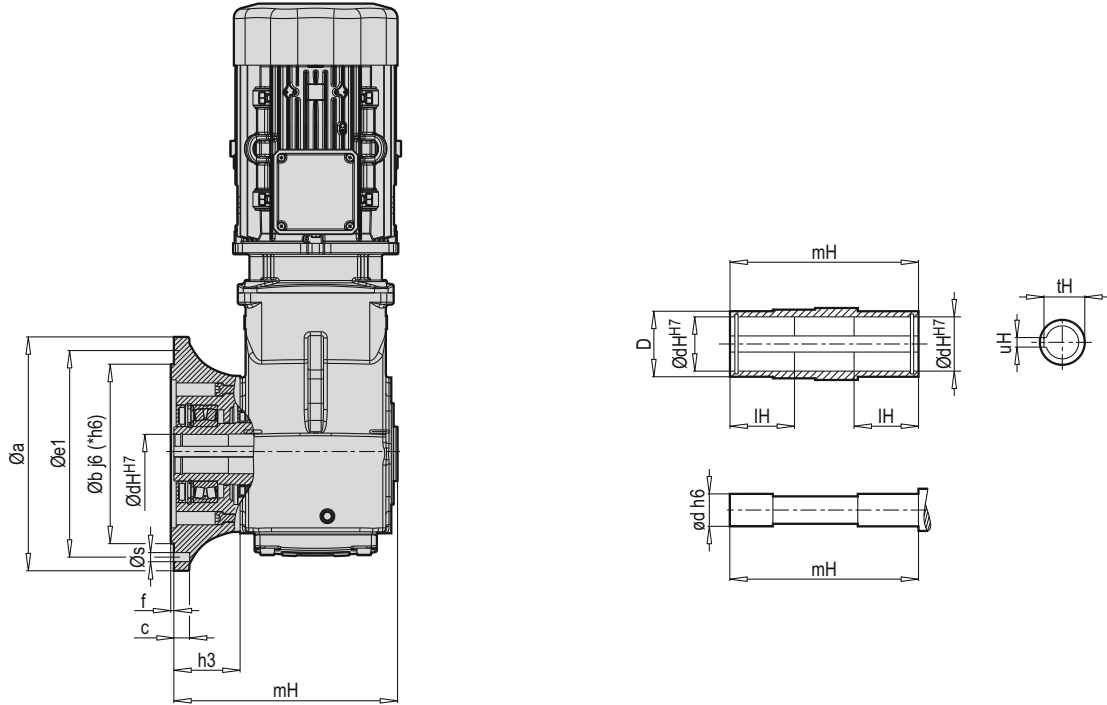
Alle oben genannten Maße gelten auch für Kegelradgetriebe mit freier Antriebswelle, IEC- und PAM-Adapter.

Mevcut tasarımlar için 27 - 39

For existing designs 27 - 39

27 - 39 für aktuelle Designs

GB5 - DG



Tip / Type / Typ	a	b	c	e1	f	h3	s	uH	tH	mH	dH ^{H7}	IH
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

PGR, özellikle karıştırıcılarda kullanılması için shaft üzerindeki rulman mesafelerinin artırıldığı ve güçlendirilmiş B5 flansının kullanıldığı redüktörü kullanıma sunmaktadır.

Bu tasarım, daha uzun rulman ömrünün yanı sıra daha yüksek radyal ve aksel kuvvetlere karşı dayanım sağlar. Buradaki oynak makaralı rulman kullanımı özellikle (uzun karıştırıcı millerinde ya da shaftlarında) oluşan eksen kaçıklıklarının karşılanması için idealdir.

Opsiyonel olarak sunduğumuz bu aksesuar yalnızca gövdeden montajlı tiplerde kullanılabilir.

PGR makes available reducers with longer dimension bearings which is over the shaft for usage of agitators.

This design enables, besides more durable bearings, more durability for higher radial and axial forces. The usage of spherical roller bearing absorbs the misalignments especially for long shaft agitators.

This optional accessory can be used only for case mounting reducers.

Insbesondere für Rührwerke hat PGR den Lagerabstand der Welle durch die Verwendung des verstärkten B5-Flansches vergrößert.

Dieses Design ermöglicht die Aufnahme hoher radialer und axialer Kräfte bei erhöhter Lagerlebensdauer. Die Pendelrollenlagerung eignet sich besonders für längere Rührwerkswellen, da Fluchtungsfehler ausgeglichen werden.

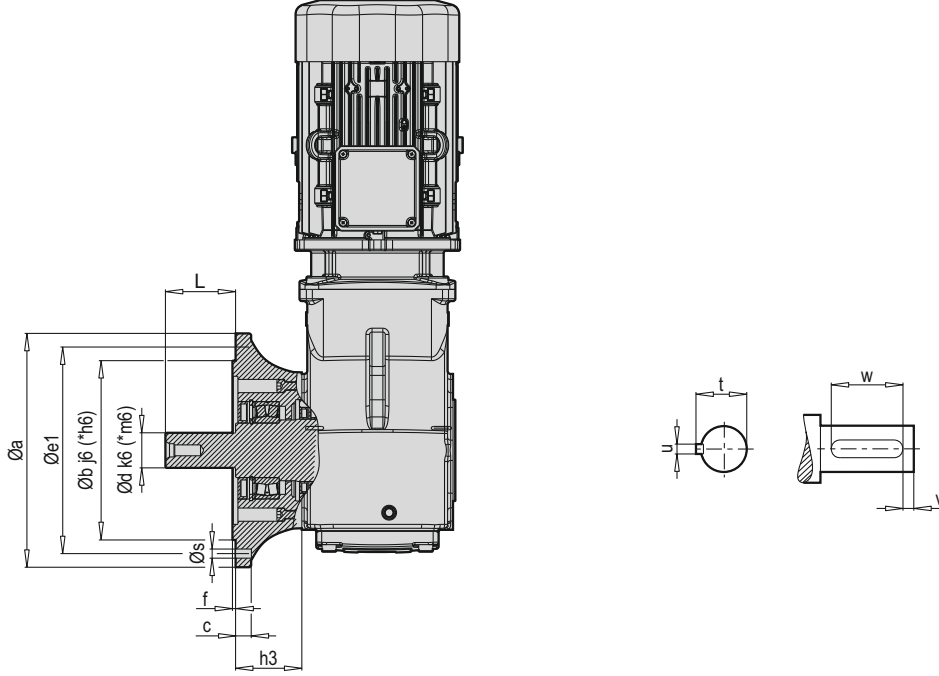
Dieses Zubehör, welches optional angeboten wird, kann nur bei gehäusmontierten Ausführungen verwendet werden.

TR GÜÇLENDİRİLMİŞ B5 FLANŞI

EN REINFORCED FLANGE B5

DE VERSTÄRKTER B5 FLANSCH

GB5 - TMG



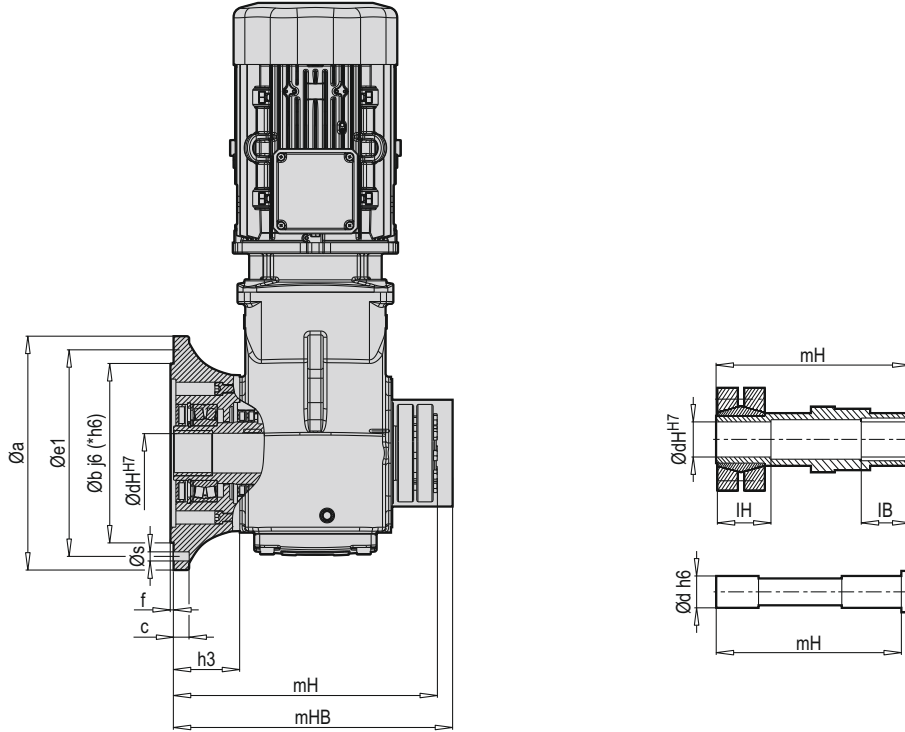
Tip / Type / Typ	a	b	c	e1	f	h3	s	d	L	t	u	v	w	T
PKD 1390 TMG/GB5 PKD 1490 TMG/GB5	200	130	12	165	3.5	75	4 x 11	30	60	33.0	8	5	50	M10
PKD 2390 TMG/GB5 PKD 2490 TMG/GB5	250	180	16	215	4.0	86	4 x 13.5	35	70	38.0	10	7	56	M12
PKD 3390 TMG/GB5 PKD 3490 TMG/GB5	300	230	20	265	4.0	85	4 x 14	45	90	48.5	14	5	80	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 8390 TMG/GB5 PKD 8390/52 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

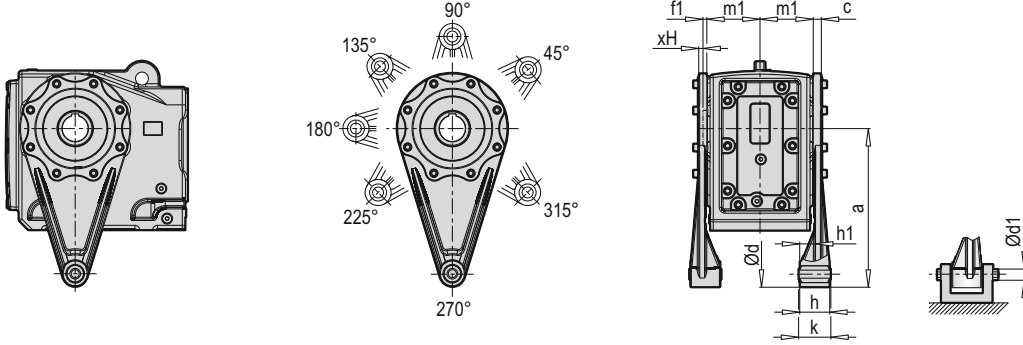
DE VERSTÄRKTER B5 FLANSCH MIT SCHRUMPFSCHEIBE

GB5 - DG / KS



Tip / Type / Typ	a	b	c	e1	f	h3	s	dH / d	mH	mHB	IB	IH
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

TK



Tork kolunun pozisyonlanması

Positions of torque arm / Positionierung der Drehmomentstütze

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

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

PKD 1390 DG/TK ... 7390 DG/TK für 45°...270°
PKD B0290 DG/TK ... H5290 DG/TK für 90°...315°

Tip / Type / Typ	Montaj Ölçüleri Mounting Dimensions Montageabmessungen								Ana Ölçüler Outline Dimensions Hauptabmessungen	
	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.

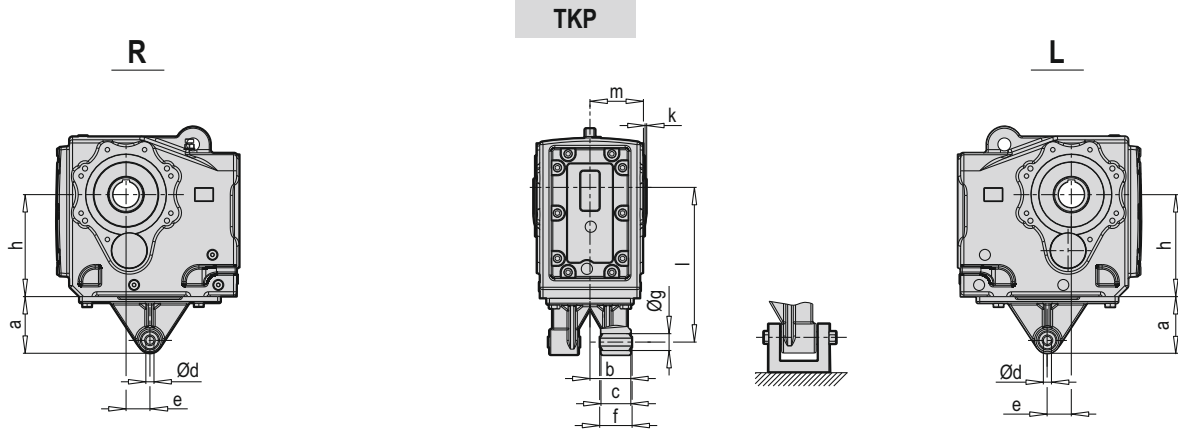
Please indicate position of torque arm when ordering.
(Ex. 270°)
Torque arm can be connected at side of L and R.

Geben Sie bei der Bestellung die Position der Drehmomentstütze an (zB 270°).
Die Drehmomentstütze kann L- oder R-seitig angebunden werden.

TR TORK KOLU PLATFORMU

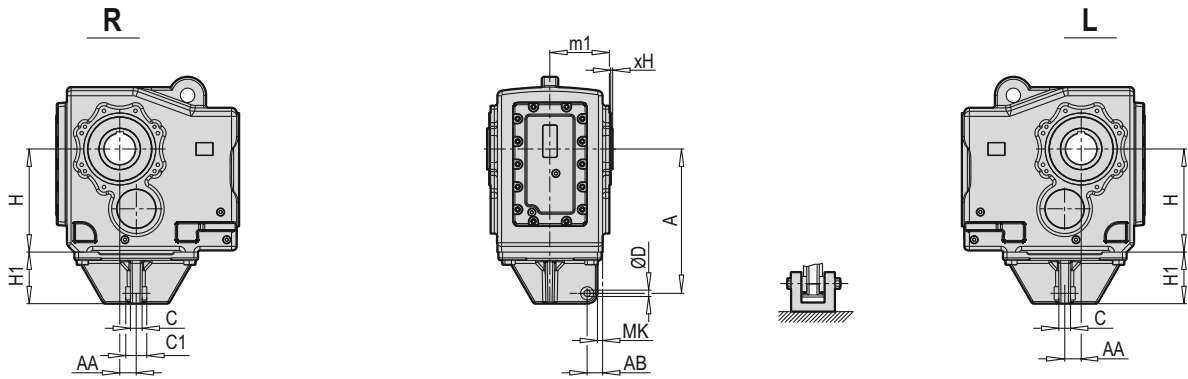
EN TORQUE ARM PLATFORM

DE DREHMOMENTSTÜTZE-PLATTFORM



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

Tip / Type / Typ	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	96	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 / Typ	TKP Montaj Ölçüleri / Mounting Dimensions / Montageabmessungen									Ana Ölçüler Outline Dimensions Hauptabmessungen	
	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	156	31	375	225	45	195	8
PKD G 8390 DG/TKP PKD G 8390/52 DG/TKP	650	55	95	56	156	31	450	250	5	235	8
PKD 9390 DG/TKP PKD 9390/52 DG/TKP	700	80	108	56	156	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	380	52	600	300	45	320	10.5

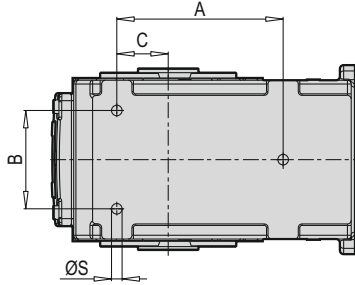
TR TORK KOLU PLATFORMU DELİKLERİ

EN TORQUE ARM PLATFORM HOLES

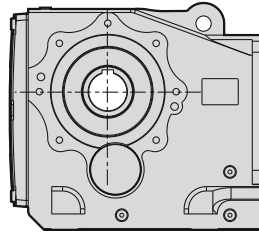
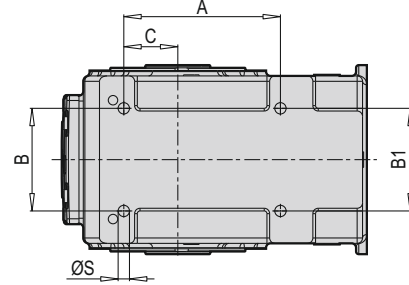
DE LÖCHER DREHMOMENTSTÜTZE-
PLATTFORM

GÖVDEDEN MONTAJLI /
CASE MOUNTED / GEHÄUSE FLANSCHMONTAGE

PKD 1390...PKD 5390



PKD 6390...PKD G 9390



Tip / Type / Typ	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

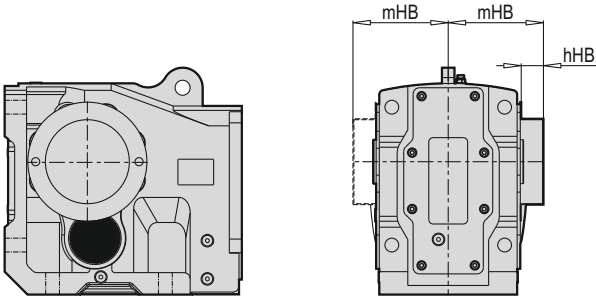
EN

PROTECTION COVER

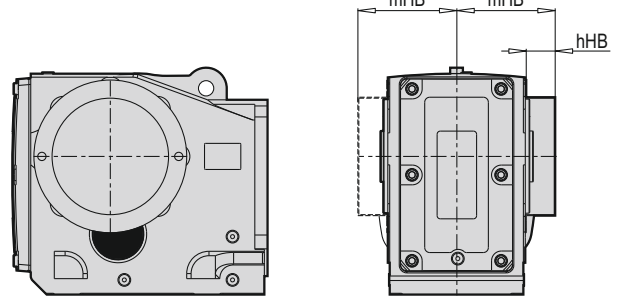
DE

SCHUTZDECKEL

Delik milli şaft koruma kapağı
 Cover cup for hollow shaft / Schutzdeckel für Hohlwelle



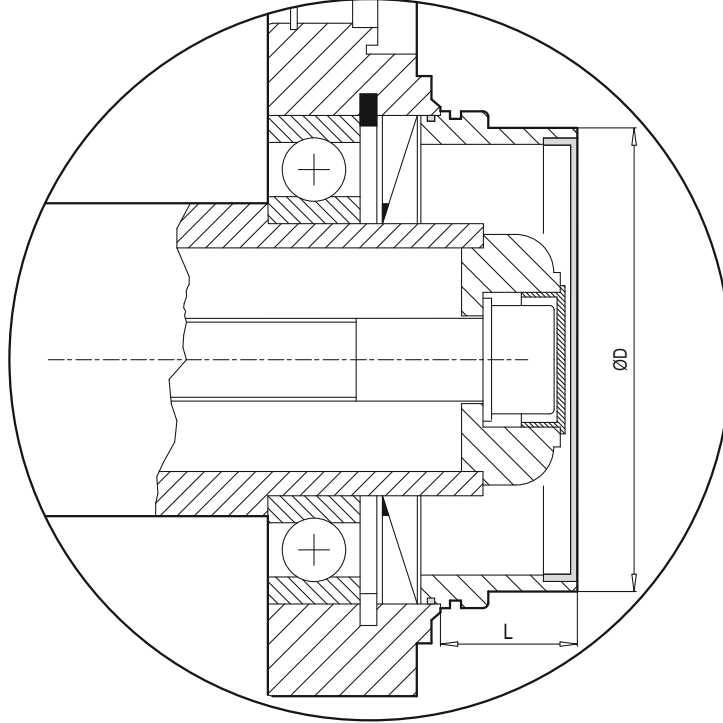
DA



DG

Tip Type Typ	Montaj ve Ana Ölçüleri Outline and Mounting Dimensions Montage und Hauptabmessungen	
	hHB	mHB
PKD A 0290 DA	35	87.5
PKD B 0290 DA	38	100
PKD C 1290 DA	43	118
PKD F 4290 DA	43	121
PKD H 5290 DA	45	132
PKD 1390 DA PKD 1490 DA	38	109
PKD G 1390 DA PKD G 1490 DA	38	109
PKD 2390 DA PKD 2490 DA	43	129
PKD 3390 DA PKD 3490 DA	45	145
PKD 4390 DA PKD 4490 DA	46	161
PKD 5390 DA PKD 5490 DA	48	193
PKD 6390 DA	55	225
PKD 7390 DA	55	225
PKD 8390 DA	62	262
PKD G 8390 DA	55	293

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



Tip / Type / Typ		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

Helisel konik dişli ve Paralel şaft montajlı redüktörler için opsiyonel olarak entegre edilmiş bir ısı eşanjörü mevcuttur. Redüktörü soğutan soğutma suyu eşanjörün içinden akar. PGR redüktör sıcaklığının ve soğutma suyunun akışının izlenmesini önerir. Bunun sebebi soğutma serpantinini herhangi bir yağ haznesinde bulunmamasıdır. Bu soğutma aynı zamanda patlama potansiyeli olan atmosferlere (ATEX) sahip uygulamalar için de uygundur. Düşük sıcaklıklarda ısı eşanjörü aynı zamanda redüktöre ısı sağlayabilir.

EN

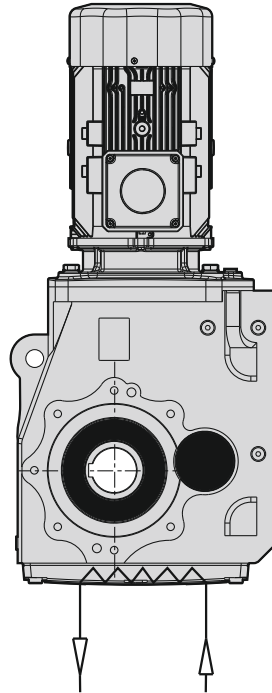
WATER COOLING

The heat exchanger is available for helical bevel gear units and parallel shaft mounted reducers optionally. The coolant which cool reducer flows inside exchanger. PGR advice you to follow flowing of coolant. The reason for this is cooling serpantine is not inside any oil tube. This cooler is also suitable for implementations which has risk of explosion. (ATEX) At low temperature, heat exchanger may provide heat to reducer.

DE

MIT WASSERKÜHLUNG

Bei Flachgetrieben und Kegelradgetrieben ist optional ein integrierter Wärmetauscher möglich. Der Wärmetauscher wird vom Kühlwasser durchströmt, welches das Getriebe kühlt. PGR empfiehlt eine Temperaturüberwachung oder Kühlwasserdurchflußüberwachung. Denn die Kühlschlange liegt nicht im Ölraum. Diese Kühlung ist auch für Anwendungen in explosionsgefährdeten Bereichen (ATEX) geeignet. Bei niedrigen Temperaturen kann der Wärmetauscher auch das Getriebe mit Wärme versorgen.



Su soğutma ünitesinin kullanılabilceği montaj pozisyonları

Table shows that suitability of water cooling for which mounting positions

Mögliche Einbaulagen bei Wasserkühlung

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

TR M4 MONTAJ POZİSYONU İÇİN İLAVE YAĞ HACMİ

Motorlu ve mil girişli dikey olarak monte edilmiş redüktörlerde 1. Kademenin yağlanması için yağ seviyesi yüksektir. Dikey montaj pozisyonu olan M4 pozisyonunda isteğe bağlı olarak ilave yağ hacim ünitesinin kullanılması, yağın köpürme yaptığı durumlarda extra bir hacim sağlayarak havalandırma tapasından yağ sızmasını önler.

PGR tahvil oranının 20'den küçük olduğu ve PA/PF 42, PD/PM 42, PKD 4390 dan büyük, gövdelerin dikey montajlarında ilave yağ hacim ünitesinin kullanımı kesinlikle önerilir. Aksi kullanım durumunda PGR ürünü garanti kapsamına almamaktadır.

PGR ayrıca tahvil oranının 20'den küçük ve motor dönüş hızının 1800 d/dk'den büyük olduğu küçük gövdeli redüktörler için de ilave yağ hacim ünitesinin kullanımını önemle tavsiye eder.



EN ADDITIONAL LUBRICANT VOLUME FOR MOUNTING POSITION M4

Reducers which are with motor, solid shaft and vertical mounting position has high oil level for lubricating first stage. The usage of additional lubricant tube at M4 mounting position upon request prevents leakage when oil is foamed by providing extra volume.

PGR strictly recommends usage of additional oil tube when the ratio number is less than 20, larger than PA/PF 42, PD/PM 42, PKD 4390 cases and vertical mounting positions. Otherwise, the reducer is at out of guarantee.

In addition to this, PGR strictly recommends usage of additional oil tube when the ratio number is less than 20, motor rotation speed is bigger than 1800 min⁻¹ and smaller cases.

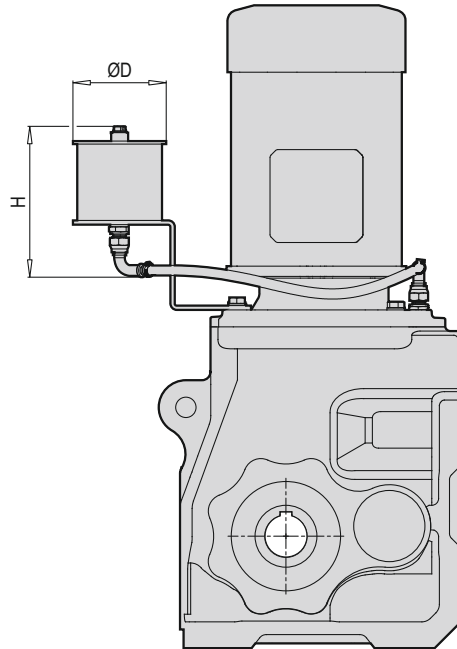


DE ZUSÄTZLICHES ÖLVOLUMEN FÜR M4 EINBAUPOSITION

Bei Getrieben mit Motor- und Wellenantrieb, die vertikal eingebaut sind, ist zur Schmierung der 1. Stufe der Ölstand höher. Der optionale Einsatz eines zusätzlichen Ölausgleichsbehälters bei der vertikalen Einbaulage M4 verhindert Ölaustritt am Entlüftungstopfen durch zusätzliches Volumen bei eventueller Ölschaumbildung.

PGR empfiehlt daher dringend bei Übersetzungen $i_{ges} < 20$ und bei Gehäusen ab PA/PF 42, PD/PM 42, PKD 4390 Ölausgleichsbehälter bei der vertikalen Einbaulage einzusetzen. Andernfalls ist das Getriebe von der Garantie ausgenommen.

PGR empfiehlt außerdem dringend die Verwendung eines zusätzlichen Ölausgleichsbehälters für kleinere Getriebe mit einem Übersetzungsverhältnis von weniger als 20 und einer Motordrehzahl von mehr als 1800 U/min.



Tip Type Typ	Boyut Size Baugröße	ØD [mm]	H [mm]	[kg]	Kapasite Capacity Kapazität [L]
PKD 4390 / PKD 4490	I	110	180	2.5	0.7
PKD 5390 / PKD 5490					
PKD 6390					
PKD 7390	II	155	300	6	3
PKD 8390					
PKD G 8390	III	190	300	8	5
PKD 9390					
PKD G 9390					

* Model yapılan geliştirmeye bağlı değişiklik gösterebilir. Hassas montaj alanları için iletişime geçiniz.

* The model may vary depending on the development. Please contact for sensitive assembly areas.

* Das Modell kann sich je nach Entwicklung variieren. Bitte kontaktieren Sie uns für empfindliche Montagebereiche.

TR

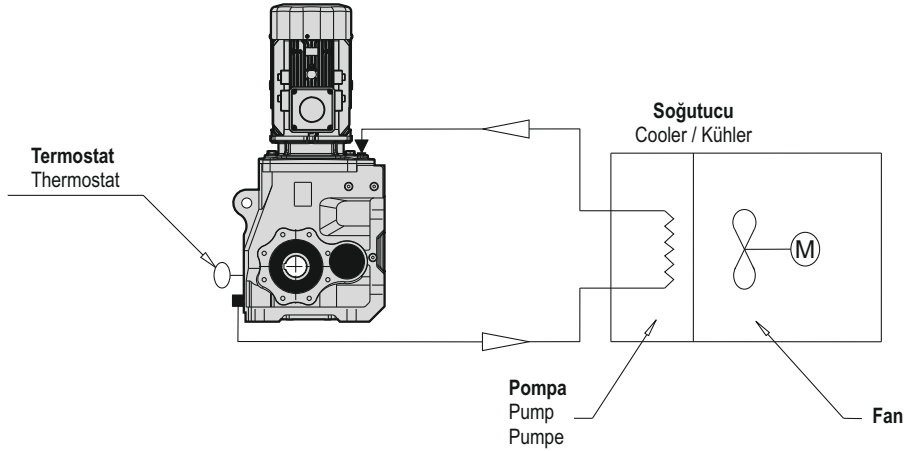
YAĞ SOĞUTMALI

EN

OIL COOLING

DE

ÖLKÜHLER



■ Çıkış = Emme hattı

■ Output = Suction line

■ Ablass = Saugleitung

▼ Yağ seviyesi = Basınç hattı

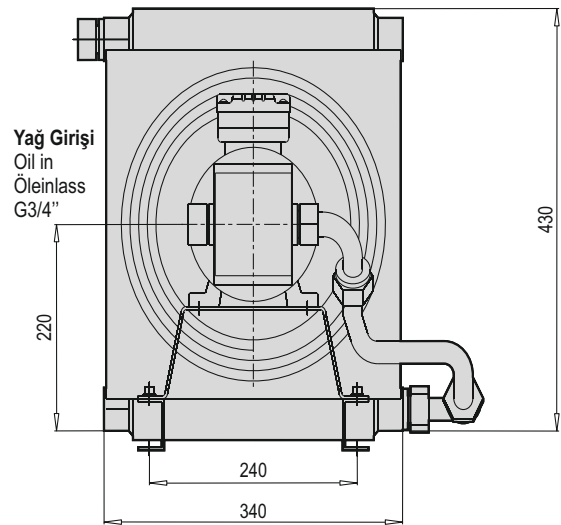
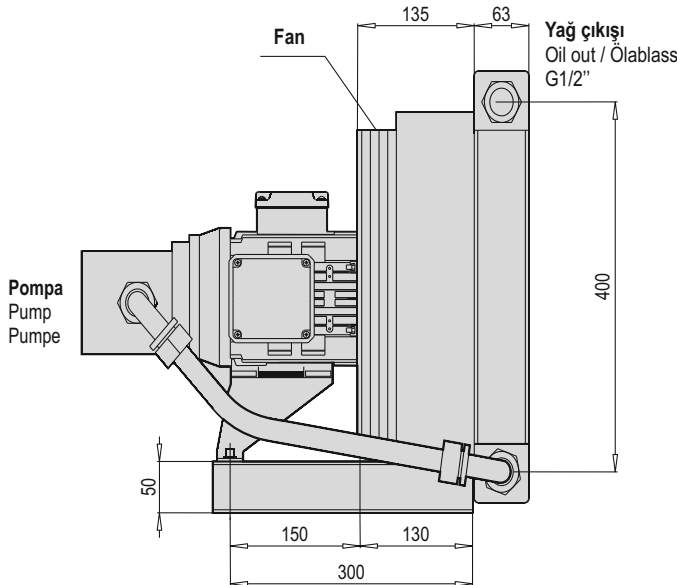
▼ Oil level = Pressure line

▼ Ölstand = Druckleitung

Redüktör içerisindeki yağ bir pompa vasıtası ile çekilir ve bu yağ bir ısı eşanjöründen geçer. Yağ, bir fan tarafından oluşturulan hava akımı ile soğutulur. Yağ ısı eşanjöründen dışarıya taşınır ve redüktöre geri gönderilir. Sıcaklık bir termostat ile kontrol edilir. PGR bu sıcaklığın izlenmesini önerir.

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 a pump. In this way, oil temperature is cooled down by a fan which is supplying air flow of oil. Then, oil flows to the house of gear unit.

Das Getriebeöl wird von einer Pumpe angesaugt und durchströmt einen Wärmetauscher. Durch einen von einem Ventilator erzeugten Luftstrom erfolgt die Ölkühlung. Aus dem Wärmetauscher wird das Öl wieder in das Gehäuse zurückgefördert. Die Temperaturregelung erfolgt über einen Thermostaten. Eine Temperaturüberwachung wird empfohlen.



* Potansiyel patlayıcı atmosferli alanlar için uygun değildir.

* Not suited for areas with potentially explosive atmospheres

*Nicht geeignet für Bereiche mit explosionsgefährdeter Atmosphäre.

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

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:

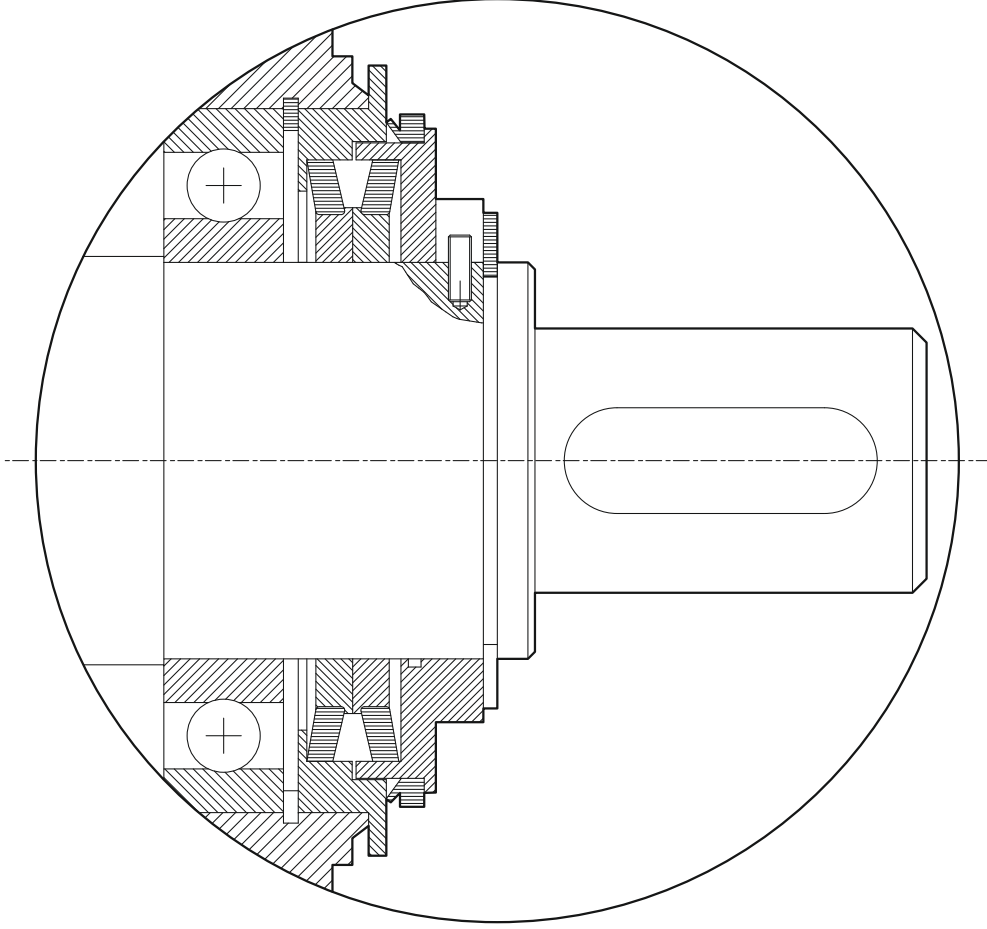
- Special voltage 60 HZ - Special motor
Weight : 35 kg

Entwurf

Kühler	: TFS/A 8,5-400-F-03-11
Reduzierung	: Aus 1/2" / in 3/4"
Motoren	: Spannung 3x400 V
Leistung	: 0,55 kW
Strom	: 1,7 A
Drehzahl	: 1350 min.
Schutzklasse	: IP 55
Isolationsklasse	: F
Temperaturklasse	: B

Lieferbar mit

- Spezialspannung 60 Hz - Sondermotor
Gewicht: 32 kg



Mekanik keçe kullanımı özellikle uzun süreli maruz kalınan kötü çalışma koşullarına uygundur. Sıvı yoğunluğunun çok olduğu daldırılmalı çalışma ortamlarında maximum seviye sızdırmazlık sağlar. Bu keçe tipi birçok olumsuz dış çevre koşullarından (Aşırı tozlu, sulu) yüksek seviyede koruma sağlar.

The use of mechanical seals is especially suitable for long-term poor working conditions. It provides maximum level of leakproofing for working areas which is immersion and high density of liquid. This type of seal provides a high level of protection from many unfavorable external environmental conditions (extreme dust, water).

Der Einsatz von Gleitringdichtungen eignen sich besonders bei langfristiger Belastung durch schlechte Arbeitsbedingungen. Diese bieten maximale Undurchlässigkeit in Arbeitsumgebungen unter Wasser mit hoher Feuchtigkeit. Dieser Dichtungstyp bietet einen hohen Schutz vor vielen schädlichen Umwelteinwirkungen (extremer Staub, Wasser).

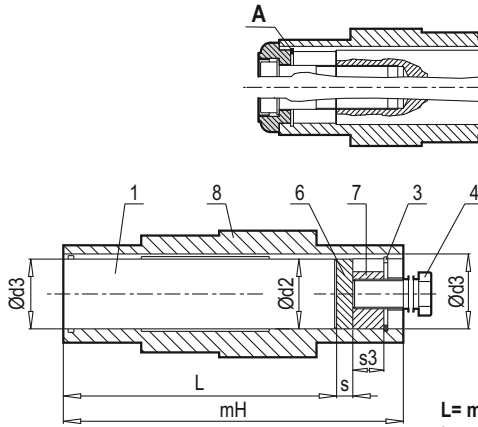
TR

ÇEKTİRME KİTİ
Çektirme Kiti

Değişik gövde büyüklükleri için opsiyonel olarak çektirme kitlemiz şaft çıkışlı dizaynlarımızda mevcuttur.

Çektirme kiti için kullanım gereksinimleri:

- Kullanılan müşteri milinin alın tarafının merkezinde DIN 332/2 standartlarına uygun bir delik olmalıdır.
- Müşteri mili, faturalı ya da faturasız olsa da çektirme kiti ile uyumludur.
- I numaralı montaj pozisyonu olması halinde, müşteri mili redüktör şaftının içinde bulunan segman ile tutturulur. (Parça A)
- II numaralı montaj pozisyonu olması halinde, müşteri milinin üzerinde bulunan fatura kullanılarak doğrudan redüktör şaftı üzerine tutturulur. (Parça B)


DEMONTAJ / DISASSEMBLY

EN

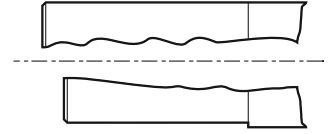
PULLER KIT
Puller Kit

The puller kit is optionally available on shaft mounted gear units.

Using conditions:

- The centre hole must be DIN 332/2 for customer solid shaft.
- The customer shaft can be fixed with the puller kit (with shoulder or without shoulder)
- When the assembly in Fig. I is used, the customer shaft is fasten by the circlip in the gear unit shaft.(Track A)
- When the assembly in Fig. II is used, it is fasten directly to the gearbox shaft using the invoice on the customer shaft.

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


MONTAJ / ASSEMBLY

DE

AUFZIEHVRORICHTUNG
Aufziehvorrichtung

Für verschiedene Gehäusegrößen sind optional Abziehvorrichtungen für Ausführungen mit Hohlwellenabtrieb erhältlich.

Nutzungsanforderungen für die Abziehvorrichtung:

- In der Stirnmitte der Kundenwelle sollte eine Bohrung nach DIN 332/2 vorhanden sein.
- Die Kundenwelle ist mit der Abziehvorrichtung kompatibel, mit oder ohne Wellenabsatz.
- Bei Bauform I wird die Kundenwelle mit dem Sicherungsring in der Getriebewelle befestigt. (Teil A)
- Bei Einbaulage II wird die Kundenwelle am Wellenabsatz direkt auf der Getriebewelle befestigt (Teil B)

- 1) Müşteri 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) Redüktör şaftı
 - 9) Çektirme rondelası
- *PGR tarafından temin edilmez.

DEMONTAJ:

- 1) Alyan başlı civata sökülmalıdır. (5)
- 2) Çektirme rondelası takılmalıdır. (9)
- 3) Yaylı rondela takılmalıdır. (6)
- 4) Somun yerleştirilmelidir. (7)
- 5) Segman takılmalıdır. (8)
- 6) Çektirme civatası gevşetilerek müşteri mili şafttan ayrılmalıdır. (4)

MONTAJ:

- 1) Müşteri mili, redüktör şaftının içine yerleştirilmelidir. (8)
- 2) Çektirme rondelası redüktör şaftının içine yerleştirilmelidir. (9)
- 3) Çektirme rondelası ile alyan başlı civata ve rondela birbirine sabitlenmelidir. (9-5-2)

Kullanım Koşulları (Montaj için):

- Müşteri milinin merkezinde DIN 332/2 standartlarına dışı açılmış delik bulunmalıdır.
- Müşteri milinin boyu "L" uzunluğundan büyük olmamalıdır. Aksi halde çektirme elemanlarını kullanmak mümkün olmayacaktır. (3-6-7)

Kullanım Koşulları (Demontaj için):

- Demontaj ölçüleri fabrika standartlarından yararlanılarak alınabilir.
- Demontaj işlemi yalnızca boyutu "L" yi aşmayan delik mile geçecek dolu miller için geçerlidir.

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

DISASSEMBLING:

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

ASSEMBLING:

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

Usage Conditions (Assembling):

- The user shaft must be threaded to the center according to DIN 332/2.
- The customer shaft must not exceed the "L" length, otherwise the puller cannot be applied. (pos. 3,6,7)

Usage Conditions (for disassembly):

- Disassembly dimensions can be taken by using factory standards.
- The disassembly procedure is only valid for solid shafts which will be connected to solid shaft and dimension does not exceed "L".

- 1) Kundenwelle
 - 2) Federring DIN 127
 - 3) * Sicherungsring DIN 472
 - 4) * Abziehschraube
 - 5) Innensechskantschraube DIN 912
 - 6) * Federscheibe
 - 7) * Schraubenmutter
 - 8) Getriebewelle
 - 9) Abziehscheibe
- *wird Nicht von PGR bereitgestellt.

DEMONTAGE:

- 1) Innensechskantschraube muss entfernt werden. (5)
- 2) Die Abziehscheibe muss entfernt werden. (9)
- 3) Federscheibe muss eingelegt sein. (6)
- 4) Die Schraubenmutter muss eingesetzt werden. (7)
- 5) Der Sicherungsring muss montiert sein. (3)
- 6) Die Kundenwelle sollte durch Lösen der Abziehschraube von der Welle getrennt werden. (4)

MONTAGE:

- 1) Die Kundenwelle muss in der Getriebewelle befestigt werden. (8)
- 2) Die Abziehscheibe muss in die Getriebewelle eingelegt werden. (9)
- 3) Die Abziehscheibe und die Sechskantschraube und der Federring müssen miteinander befestigt werden. (9-5-2)

Nutzungsbedingungen (für Montage):

- In der Mitte der Kundenwelle muss eine Gewindebohrung nach DIN 332/2 vorhanden sein.
- Die Länge der Kundenwelle darf die Länge „L“ nicht überschreiten. Andernfalls können die Abziehelemente nicht verwendet werden. (3, 6,7)

Nutzungsbedingungen (für Demontage):

- Demontagemasse können anhand von Werksnormen übernommen werden.
- Das Demontagungsverfahren gilt nur für Vollwellen, deren Abmessung „L“ nicht überschreitet.

TR ÇEKTİRME ÖLÇÜ TABLOSU

EN DIMENSION TABLE OF FIXING ELEMENT

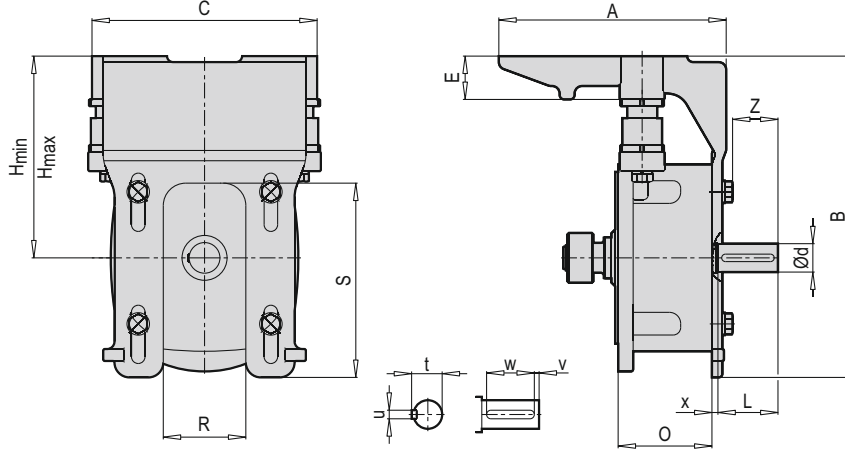
DE GRÖßENTABELLE ABZIEHVORRICHTUNG

Tip / Type	1 L	2	3	4	5	6		d3	7		8	9	
						d2	s		s3		d x mH	a	D
PKD A 0290 DA/Ç	94	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	114	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	124	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	124	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	178	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	600	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		d3	7		8	9	
						d2	s		s3		d x mH	a	D
PKD A 0290 DG/Ç	94	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	116	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	118	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	116	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	148	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	600	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 74' de açıklanmaktadır.
The numbers which are specified at table are explained on Page 74
Die in der Tabelle angegebenen Nummern werden auf Seite 74 erklärt.

Motor Platformu Ölçüleri /
Motor Platform Dimensions / Abmessungen der Motorkonsole



Tip Type Typ	Bağlantı boyutları ve platform ölçüleri Connection and Platform dimensions Anschlussmaße und Motorkonsolenmaße										Mil Ölçüleri Shaft size Wellenmaße				Flanş Flange Flansch
	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

Müşteri motor platformunu kullanarak farklı makina ve sistem tasarlarken çok fazla yapıcı olanaklar elde edilebilir.

Motor platform tasarımı PGR monoblok dişli ünitesi serileri için tüm montaj pozisyonlarında kullanılabilir. 5 çeşit motor platformu tüm motor-redüktör montaj kombinasyonlarını kapsar. Çok kademeli redüktör tasarımları için de yine seçim tablolarından motor platformu seçimi yapılabilir.

PGR motor platformu kullanımının müşteriye sağladığı avantajlar;

- * Hafif ve değişken titreşimleri etkileyen yapı
- * Korozyona dayanıklı sabitleme elemanları
- * Tüm montaj pozisyonlarında kullanılabilirlik
- * Optimum kayış gerginliğini yakalamak adına ayarlanabilir yükseklik ayarı
- * Birçok motor ve gövde büyüklüğü için motor platformu üzerinde bulunduğu bağlantı delikleri
- * 90° her yöne döndürülebilir yapı
- * Seçim tablolarından tahvil oranının $i=1$ 'e eşit olduğu durumlar için önerilir.

Assembling of Motor Platform

By using motor platform, you may have a lot of facility for designing different machines and systems.

Motor platform design may be used at all mounting positions for monoblock gear units. 5 types of motor platform covers all motor-reducer mounting combinations. For multi stage gear units, you can also select motor platform from selection tables.

The advantages of using motor platform to customer

- * Structure that affects light and variable vibrations
- * Fixing elements resistive for corrosion.
- * Usability at all mounting positions
- * Adjustable height adjustment to achieve optimum belt tension
- * Connection holes over motor platform for a lot of motor and motor case dimension
- * 90° rotation all direction
- * It is recommended for situations where the ratio is equal to $i=1$ from the selection tables

MOTORKONSOLE MONTAGE

Durch den Einsatz der Motorkonsole stehen dem Planer weitere konstruktive Möglichkeiten bei der Auslegung von Maschinen und Anlagen zur Verfügung. Die Motorkonsole ist so ausgelegt, dass sie in Verbindung mit allen PGR-Blokgehäusegetrieben in allen Bauformen kombiniert werden kann. Fünf Baugrößen decken alle Motor-Getriebe-kombinationen ab. Die jeweils möglichen Zuordnungen entnehmen Sie den Auswahl tabellen, die auch für die entsprechenden mehrstufigen Getriebeausführung Gültigkeit haben.

- Vorteile der PGR-Motorkonsole für den Anwender;

- * Leichte und variable Vibrationen dämpfende Konstruktion
- * Korrosionssichere Befestigungselemente
- * In allen Einbaupositionen einsetzbar
- * Leicht zu handhabende Höhenverstellung für optimale Riemenspannung
- * Motorkonsole mit Bohrungen für mehrere Motorbaugrößen
- * In alle Richtungen um 90° schwenkbar
- * Empfohlen für Situationen, in denen gemäß Auswahltable Übersetzungen $i=1,0$ sind

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.

Motorconsole mit Bohrungen für mehrere Motorbaugrößen

Motor platformu seçim örneği:

Öncelikle gerekli çıkış hız veya gerekli çıkış gücü ihtiyacına bağlı olarak kullanacağımız temel redüktör tipini belirlemeliyiz. Motorlu seçim tablolarında motor çıkış gücü ve tahvil oranına göre redüktör seçimi yapınız.

0,18 kW 5,8 d/dk, i=232.89 → PKD 2390 100L

Redüktör tipinin seçilmesinin ardından motor gövde büyüklüğü ve redüktör tipine bağlı tabloyu kullanarak motor platformu tipini (MK) tespit ediniz (Sayfa 76).

100L → PKD 2390 → MK1

MK1 tipi platforma göre motor gövde büyüklüğü satırını göz önüne alarak kayış tipi, ayar aralığı, kayış uzunluğu, 2 mil arası eksen mesafesi ve kayış sayısı bilgileri elde edilebilir. (Sayfa 78)

Example of motor platform selection:

First of all, we must determine the basic gearbox type we will use depending on the required output speed or the required output power requirement. In the motor selection tables, select the reducer according to the motor output power and bond ratio.

0.18 kW 5.8 min⁻¹, i=232.89 → PKD 2390 100L

After selecting the gearbox type, determine the motor platform type (MK) using the table depending on the motor body size and gearbox type (Page 76).

100L → PKD 2390 → MK1

Belt type, adjustment range, belt length, axis distance between 2 shafts and number of belts can be obtained by considering the motor body size line according to the MK1 type platform. (Page 78)

Beispiel für die Auswahl der Motorkonsole:

Zunächst ist je nach geforderter Abtriebsdrehzahl bzw. geforderter Abtriebsleistung der zu verwendende Getriebetyp zu bestimmen. Wählen Sie in den Auswahltabellen für Motoren das Getriebe entsprechend der Abtriebsleistung und dem Übersetzungsverhältnis.

0,18 kW 5,8 min⁻¹, i=232,89 → PKD 2390 100L

Nach Auswahl des Getriebetyps ermitteln Sie den Motorkonsolentyp (MK) anhand der Tabelle in Abhängigkeit von Motorbaugröße und Getriebetyp (Seite 76).

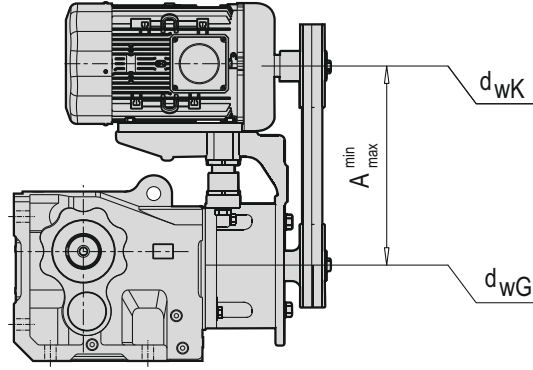
100L → PKD 2390 → Mk1

Informationen zu Riementyp, Verstellbereich, Riemenlänge, Achsabstand zwischen 2 Wellen und Anzahl der Riemen können unter Berücksichtigung der Zeile für die Motorgröße gemäß dem MK1- Motorkonsolentyp ermittelt werden. (Seite 78)

TR V KAYIŞ VE KAYIŞ KASNAK SEÇİMİ

EN V BELT AND BELT PULLEY SELECTION

DE AUSWAHL VON V RIEMEN UND RIEMENSCHLEIBE



	Motor	Çıkış Output Abtrieb (kW)	Ayar aralığı Adjustment range Einstellbereich		Kayış uzunluğu Belt length Riemenlänge	Mil merkezi uzaklığı Shaft centre distance Wellenmittlenabstand A	Kayış sayısı Number of belts Anzahl Riemen
			Amin	Amax			
MK I Kayış Tipi SPZ Belt type SPZ Riementyp SPZ	63 M/4A	0.12	216	236	(d _{wG} = 80) (i = 1) Lw 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 Riementyp SPZ	80 M/4A	0.55	279	304	(d _{wG} = 112) (i = 1) Lw 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 Riementyp SPZ	90 S/4A	1.10	344	376	(d _{wG} = 160) (i = 1) Lw 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 Riementyp SPA	112 M/4B	4.00	427	467	(d _{wG} = 200) (i = 1) Lw 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 Riementyp SPA	200 L/4C	30.0	665	715	(d _{wG} = 250) (i = 1) Lw 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 Riementyp SPB	250 M/4C	55.0	715	765	(d _{wG} = 250) (i = 1) Lw 2240	727	4

* Kayış kasnak aksesuarları PGR tarafından temin edilmemektedir.

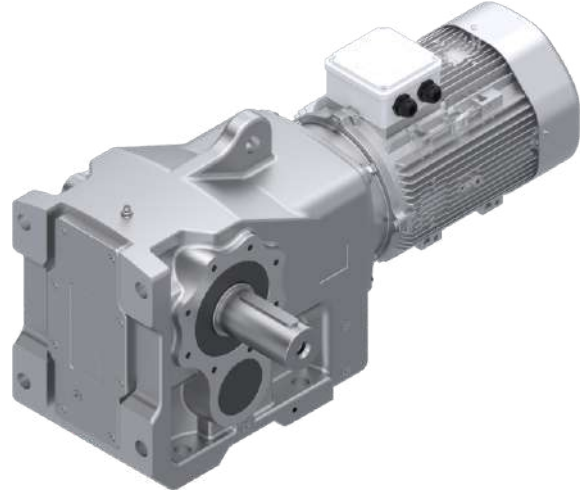
*Belt pulley accessories are not provided by PGR.

*Riemenscheibenzubehör wird nicht von PGR geliefert.

Motorlu Seçim Tabloları

Selection Tables of
Geared motors

Auswahltabellen der
Getriebemotoren



PKD...

0.25 kW

Redüktör motor gücü
Gear unit motor power
Getriebemotorleistung

Motor gücü
Rated motor power
Motormennleistung

Çıkış devri
Output speed
Leistungsgeschwindigkeit

Çıkış momenti
Output torque
Abtriebsdrehmoment

Servis faktörü
Service factor
Betriebsfaktor

Tahvil oranı
Reduction ratio
Übersetzungsverhältnis

Ölçü sayfaları
Drawing pages
Zeichnungsseite

Ağırlık
Weight
Gewicht

Redüktör tipi
Gear unit motor type
Getriebetyp

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 / Typ IE2 / IE3	Kg	mm
0.25	0.6	3788	0.8	1516.84	23.0	40.0	28.0	40.0	PKD 4490 71M6C / 71M6D	128	242-243
	0.8	2781	1.1	1113.75	25.0	40.0	28.0				
	1.0	2203	1.3	882.35	27.0	40.0	28.0				
	1.4	1610	1.8	644.73	27.0	40.0	28.0				
	1.6	1418	2.1	567.85	27.0	40.0	28.0				

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

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

Die aufgeführten Werte für zulässige Radiallasten FR für Normallager werden mit FA = 0 (N) berechnet.

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

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

Die aufgeführten Werte für zulässige Axiallasten FA für Normallager werden mit FR = 0 (N) berechnet.

Müsaade edilebilir eksenel yükler
Güçlendirilmiş rulmanlarda
(Sadece ayak montajlı, helisel konik dişli redüktörlerde PKD 7390' a kadar)
FA için listelenmiş değerlerde
FR = 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 FR is assumed equal to zero. FR = 0 (N)



Die aufgeführten Werte für zulässige Axiallasten FA für verstärkte Lager werden mit FR = 0 (N) berechnet.



Müsaade edilebilir radyal yükler
Güçlendirilmiş rulmanlarda
(Sadece ayak montajlı, helisel konik dişli redüktörlerde PKD 7390' a kadar)
FR için listelenmiş değerlerde
FA = 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 FA is assumed equal to zero. FA = 0 (N)



Die aufgeführten Werte für zulässige Radiallasten FR für verstärkte Lager werden mit FA = 0 (N) berechnet



P_1 [kW]	n_2 [Min ⁻¹]	M_2 [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{RGR} [kN]	F_{AGR} [kN]	Tip / Type / Typ IE2 / IE3		
0.12	0.7	1634	1.0	1363.01	11.0	15.0	15.0	30.0	PKD 3490 63M6C / 63M6B	71	234-235
	0.8	1380	1.2	1151.03	13.0	15.0	15.0	30.0			
	1.0	1047	1.6	873.20	14.0	15.0	15.0	30.0			
	1.3	829	2.0	691.75	14.0	15.0	15.0	30.0			
	1.7	646	2.5	538.92	14.0	15.0	15.0	30.0			
	0.6	1829	0.8	2429.08	-	-	-	-	PKD 3490 63M4A	71	234-235
	0.8	1374	1.1	1825.06	-	-	-	-			
	1.0	1026	1.5	1363.01	11.0	15.0	15.0	30.0			
	1.2	867	1.8	1151.03	13.0	15.0	15.0	30.0			
	1.6	658	2.4	873.20	14.0	15.0	15.0	30.0			
	2.0	521	3.0	691.75	14.0	15.0	15.0	30.0			
	0.8	1291	0.9	3637.83	11.0	15.0	-	-	PKD 3490 63M2K	71	234-235
	1.2	862	1.4	2429.08	11.0	15.0	-	-			
	1.5	648	1.8	1825.06	11.0	15.0	-	-			
	2.1	484	2.4	1363.01	11.0	15.0	15.0	30.0			
	2.4	409	2.9	1151.03	13.0	15.0	15.0	30.0			
	0.9	1142	0.8	952.47	3.0	12.0	10.0	25.0	PKD 2490 63M6C / 63M6B	48	226-227
	1.2	904	1.0	754.58	6.0	12.0	11.0	25.0			
	1.3	813	1.1	678.31	7.0	12.0	11.0	25.0			
	1.6	674	1.3	562.44	8.0	12.0	12.0	25.0			
	1.9	567	1.6	473.11	8.0	12.0	12.0	25.0			
	2.6	407	2.2	339.72	8.0	12.0	12.0	25.0			
	3.0	357	2.5	297.67	9.0	12.0	12.0	25.0			
	3.9	274	2.5	228.98	8.0	12.0	12.0	22.0			
	0.9	1133	0.8	1504.07	-	-	-	-			
	1.2	844	1.0	1121.09	3.0	12.0	8.0	25.0			
	1.5	717	1.2	952.47	3.0	12.0	10.0	25.0			
	1.9	568	1.5	754.58	6.0	12.0	11.0	25.0			
	2.1	511	1.7	678.31	7.0	12.0	11.0	25.0			
	2.5	424	2.0	562.44	8.0	12.0	12.0	25.0			
	3.0	356	2.4	473.11	8.0	12.0	12.0	25.0			
	1.5	674	1.0	1898.52	3.0	12.0	-	-	PKD 2490 63M2K	48	226-227
	1.9	534	1.2	1504.07	3.0	12.0	-	-			
	2.5	398	1.6	1121.09	3.0	12.0	8.0	25.0			
	2.9	338	1.9	952.47	3.0	12.0	10.0	25.0			
	3.7	268	2.4	754.58	6.0	12.0	11.0	25.0			
	4.1	241	2.7	678.31	7.0	12.0	11.0	25.0			
	3.3	337	2.5	276.87	12.0	12.0	-	-	PKD 2390 63M6C / 63M6B	43	222-223
	3.9	283	2.6	232.89	12.0	12.0	12.0	23.0			
	1.4	755	0.8	630.06	8.0	20.0	9.0	20.0	PKD G 1490 63M6C / 63M6B	41	218-219
	1.6	669	1.0	558.17	8.0	20.0	9.0	20.0			
	1.8	591	1.1	493.33	9.0	20.0	9.0	20.0			
	2.4	441	1.5	367.72	9.0	20.0	9.0	20.0			
	3.4	321	2.0	267.91	9.0	20.0	-	-			
3.8	283	2.3	235.95	9.0	20.0	-	-				
5.1	214	2.8	178.17	9.0	20.0	-	-				
6.7	161	2.8	134.41	9.0	20.0	-	-				
2.2	474	1.3	630.06	8.0	20.0	20.0	20.0	PKD G 1490 63M4A	41	218-219	
2.5	420	1.5	558.17	8.0	20.0	20.0	20.0				
2.8	372	1.6	493.33	9.0	20.0	20.0	20.0				
3.8	277	2.2	367.72	9.0	20.0	20.0	20.0				
5.2	202	3.0	267.91	-	-	-	-				
2.0	501	0.9	1412.66	8.0	20.0	9.0	20.0	PKD G 1490 63M2K	41	218-219	
2.2	446	1.0	1255.89	8.0	20.0	9.0	20.0				
4.4	224	2.1	630.06	8.0	20.0	9.0	20.0				
5.0	198	2.3	558.17	8.0	20.0	9.0	20.0				
5.7	175	2.6	493.33	9.0	20.0	9.0	20.0				
3.2	338	1.8	277.79	9.0	20.0	9.0	20.0	PKD G 1390 63M6C / 63M6B	36	214-215	
3.8	285	2.2	234.59	9.0	20.0	9.0	20.0				
4.4	251	2.6	206.01	9.0	20.0	9.0	20.0				
5.0	214	2.8	277.79	9.0	20.0	9.0	20.0	PKD G 1390 63M4A	36	214-215	



P_1 [kW]	n_2 [Min ⁻¹]	M_2 [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{RGR} [kN]	F_{AGR} [kN]	Tip / Type / Typ IE2 / IE3	 Kg	 mm
0.12	2.0	528	0.8	440.14	5.0	20.0	9.0	20.0	PKD 1490 63M6C / 63M6B	40	210-211
	2.8	384	1.1	320.68	5.0	20.0	-	-			
	3.2	339	1.2	282.43	5.0	20.0	-	-			
	4.2	256	1.6	213.26	5.0	20.0	-	-			
	5.1	214	2.0	178.17	5.0	20.0	-	-			
	6.4	170	2.5	141.69	5.0	20.0	-	-			
	2.1	503	0.8	668.11	3.0	20.0	8.0	20.0	PKD 1490 63M4A	40	210-211
	2.4	445	0.9	590.51	3.0	20.0	8.0	20.0			
	3.2	331	1.2	440.14	5.0	20.0	9.0	20.0			
	4.4	241	1.7	320.68	-	-	-	-			
	5.0	213	1.9	282.43	-	-	-	-			
	6.6	161	2.5	213.26	-	-	-	-			
	7.9	134	3.0	178.17	-	-	-	-			
	3.3	301	1.0	848.31	3.0	20.0	8.0	20.0	PKD 1490 63M2K	40	210-211
	4.2	237	1.3	668.11	3.0	20.0	8.0	20.0			
	4.7	210	1.5	590.51	3.0	20.0	8.0	20.0			
	6.4	156	1.9	440.14	5.0	20.0	9.0	20.0			
	8.7	114	2.7	320.68	5.0	20.0	-	-			
	9.9	100	3.0	282.43	5.0	20.0	-	-			
	2.7	405	1.0	332.51	6.0	20.0	8.0	20.0	PKD 1390 63M6C / 63M6B	35	206-207
	3.2	342	1.2	280.80	7.0	20.0	9.0	20.0			
	3.6	300	1.4	246.59	7.0	20.0	9.0	20.0			
	4.4	251	1.7	206.01	7.0	20.0	9.0	20.0			
	5.4	203	2.1	166.82	7.0	20.0	9.0	20.0			
	6.4	171	2.5	140.87	7.0	20.0	9.0	20.0			
	7.3	151	2.8	123.71	7.0	20.0	9.0	20.0			
	4.2	256	1.6	332.51	6.0	20.0	9.0	20.0			
	5.0	216	1.9	280.80	7.0	20.0	9.0	20.0			
	8.4	122	2.5	332.51	6.0	20.0	9.0	20.0	PKD 1390 63M2K	35	206-207
	10.0	103	2.9	280.80	7.0	20.0	9.0	20.0			
	14.3	78	1.7	62.77	4.7	9.0	-	-	PKD C 1290 63M6C / 63M6B	23	194-195
	16.4	68	1.7	54.92	4.7	9.0	-	-			
	18.1	61	2.9	49.69	4.7	9.0	-	-			
	20.7	54	2.9	43.48	4.7	9.0	-	-			
	22.3	49	2.5	62.77	4.7	9.0	-	-	PKD C 1290 63M4A	23	194-195
	25.5	43	2.5	54.92	4.7	9.0	-	-			
	16.8	66	1.4	53.52	3.3	5.6	-	-	PKD B 0290 63M6C / 63M6B	16	190-191
	19.2	58	1.4	46.83	3.3	5.6	-	-			
	21.8	51	2.4	41.23	3.3	5.6	-	-			
	24.9	45	2.4	36.08	3.3	5.6	-	-			
	19.4	57	1.0	72.24	3.2	5.6	-	-	PKD B 0290 63M4A	16	190-191
	22.1	50	1.0	63.21	3.2	5.6	-	-			
	26.2	42	2.1	53.52	3.3	5.6	-	-			
	29.9	37	2.0	46.83	3.3	5.6	-	-			
	38.8	28	1.5	72.24	3.2	5.6	-	-	PKD B 0290 63M2K	16	190-191
	44.3	24	1.6	63.21	3.2	5.6	-	-			
	16.5	67	0.8	54.62	3.2	5.1	-	-	PKD A 0290 63M6C / 63M6B	12	186-187
18.8	59	0.8	47.79	3.2	5.1	-	-				
22.7	49	1.7	39.64	3.2	5.1	-	-				
25.9	43	1.8	34.69	3.2	5.1	-	-				
29.9	37	2.0	30.13	3.2	5.1	-	-				
34.1	33	2.9	26.36	3.2	5.1	-	-				
51.2	22	2.9	17.58	3.2	5.1	-	-				
25.6	43	1.2	54.62	3.2	5.1	-	-	PKD A 0290 63M4A			
29.3	38	1.2	47.79	3.2	5.1	-	-				
35.3	31	2.6	39.64	3.2	5.1	-	-				
40.4	27	2.8	34.69	3.2	5.1	-	-				
46.5	24	3.0	30.13	3.2	5.1	-	-				
51.3	21	1.8	54.62	3.2	5.1	-	-	PKD A 0290 63M2K	12	186-187	
58.6	18	1.9	47.79	3.2	5.1	-	-				



P_1 [kW]	n_2 [Min ⁻¹]	M_2 [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{RGR} [kN]	F_{AGR} [kN]	Tip / Type / Typ IE2 / IE3	 Kg	 mm
0.18	0.5	3381	2.6	1909.17	64.0	50.0	-	-	PKD 7390/32 71M6B / 71M6A	362	278
	0.5	3242	2.7	1830.71	64.0	50.0	-	-	PKD 6390/32 71M6B / 71M6A	362	278
	0.2 0.5 0.6 0.8 1.0	6717 3370 2517 1909 1674	0.8 1.5 2.0 2.6 3.0	3736.07 1874.35 1399.82 1061.93 931.06	36.0 36.0 36.0 36.0 36.0	45.0 45.0 45.0 45.0 45.0	- - 38.0 38.0 38.0	- - 45.0 45.0 45.0	PKD 5490 71M6B / 71M6A	206	250-251
	0.4 0.6 0.8 1.0 1.4 1.6	3827 2727 2002 1586 1159 1021	0.8 1.1 1.5 1.9 2.5 2.9	2128.80 1516.84 1113.75 882.35 644.73 567.85	27.0 27.0 27.0 27.0 27.0 27.0	40.0 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 71M6B / 71M6A	128	242-243
	0.8 1.0 1.3 1.7 2.3 2.5	2069 1570 1244 969 718 635	0.8 1.0 1.3 1.7 2.3 2.6	1151.03 873.20 691.75 538.92 399.39 353.00	9.0 12.0 13.0 14.0 11.0 115.0	15.0 15.0 15.0 15.0 15.0 15.0	15.0 15.0 15.0 15.0 15.0 15.0	30.0 30.0 30.0 29.0 27.0 27.0	PKD 3490 71M6B / 71M6A	74	234-235
	0.8 1.0 1.2 1.6 2.0 2.6	2062 1540 1300 986 781 609	0.8 1.0 1.2 1.6 2.0 2.5	1825.06 1363.01 1151.03 873.20 691.75 538.92	- 3.0 9.0 12.0 13.0 14.0	- 15.0 15.0 15.0 15.0 15.0	- 15.0 15.0 15.0 15.0 15.0	- 30.0 30.0 30.0 30.0 29.0	PKD 3490 63M4B	71	234-235
	1.2 1.5 2.1 2.4 3.2	1293 972 726 613 465	0.9 1.2 1.6 1.9 2.5	2429.08 1825.06 1363.01 1151.03 873.20	3.0 3.0 3.0 9.0 12.0	15.0 15.0 15.0 15.0 15.0	- - 15.0 15.0 15.0	- - 30.0 30.0 30.0	PKD 3490 63M2A	71	234-235
	3.0	540	3.0	296.10	14.0	15.0	15.0	23.0	PKD 3390 71M6B / 71M6A	66	230-231
	1.6 1.9 2.6 3.0 3.9	1011 851 611 535 412	0.9 1.1 1.5 1.7 1.7	562.44 473.11 339.72 297.67 228.98	5.0 7.0 8.0 9.0 8.0	12.0 12.0 12.0 12.0 12.0	10.0 11.0 12.0 12.0 12.0	25.0 25.0 25.0 25.0 22.0	PKD 2490 71M6B / 71M6A	51	226-227
	1.5 1.9 2.1 2.5 3.0 4.1 4.7 6.1	1076 852 766 635 534 384 336 259	0.8 1.0 1.1 1.4 1.6 2.2 2.6 2.5	952.47 754.58 678.31 562.44 473.11 339.72 297.67 228.98	3.0 0.4 1.0 5.0 7.0 8.0 9.0 8.0	12.0 12.0 12.0 12.0 12.0 12.0 12.0 12.0	- 8.0 9.0 10.0 11.0 12.0 12.0 12.0	- 25.0 25.0 25.0 25.0 25.0 25.0 25.0 22.0	PKD 2490 63M4B	48	226-227
	1.9 2.5 2.9 3.7 4.1 5.0 5.9	801 597 507 402 361 299 252	0.8 1.1 1.3 1.6 1.8 2.2 2.6	1504.07 1121.09 952.47 754.58 678.31 562.44 473.11	3.0 3.0 3.0 4.0 1.0 5.0 7.0	12.0 12.0 12.0 12.0 12.0 12.0 12.0	- 8.0 10.0 8.0 9.0 10.0 11.0	- 25.0 25.0 25.0 25.0 25.0 25.0	PKD 2490 63M2A	48	226-227
	3.3 3.9 4.1 4.9 5.3	505 425 400 337 310	1.7 1.7 2.3 2.7 2.9	276.87 232.89 219.34 184.51 169.88	5.0 12.0 12.0 12.0 12.0	12.0 12.0 12.0 12.0 12.0	10.0 12.0 11.0 12.0 -	22.0 23.0 21.0 20.0 -	PKD 2390 71M6B / 71M6A	46	222-223
	5.1 6.0	320 269	2.5 2.6	276.87 232.89	5.0 12.0	12.0 12.0	10.0 12.0	22.0 23.0	PKD 2390 63M4B	43	222-223



P_1 [kW]	n_2 [Min ⁻¹]	M_2 [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{RGR} [kN]	F_{AGR} [kN]	Tip / Type / Typ IE2 / IE3		
0.18	2.4	661	1.0	367.72	8.0	20.0	9.0	20.0	PKD G 1490 71M6B / 71M6A	44	218-219
	3.4	482	1.3	267.91	8.0	20.0	-	-			
	3.8	424	1.5	235.95	8.0	20.0	-	-			
	5.1	320	1.9	178.17	8.0	20.0	-	-			
	6.7	242	1.9	134.41	8.0	20.0	-	-			
	2.2	712	0.9	630.06	8.0	20.0	9.0	20.0	PKD G 1490 63M4B	41	218-219
	2.5	631	1.0	558.17	6.0	20.0	9.0	20.0			
	2.8	557	1.1	493.33	7.0	20.0	9.0	20.0			
	3.8	415	1.5	367.72	8.0	20.0	9.0	20.0			
	5.2	303	2.0	267.91	-	-	-	-			
	5.9	267	2.3	235.95	-	-	-	-			
	7.9	201	2.8	178.17	-	-	-	-			
	10.4	152	2.8	134.41	-	-	-	-			
	4.4	335	1.4	630.06	8.0	20.0	9.0	20.0	PKD G 1490 63M2A	41	218-219
	5.0	297	1.6	558.17	6.0	20.0	9.0	20.0			
	5.7	263	1.8	493.33	7.0	20.0	9.0	20.0			
	7.6	196	2.4	367.72	8.0	20.0	9.0	20.0			
	3.2	507	1.2	277.79	9.0	20.0	9.0	20.0	PKD G 1390 71M6B / 71M6A	39	214-215
	3.8	428	1.4	234.59	9.0	20.0	9.0	20.0			
	4.4	376	1.7	206.01	9.0	20.0	9.0	20.0			
	4.9	334	1.9	183.15	9.0	20.0	9.0	20.0			
	6.0	274	2.3	149.85	9.0	20.0	9.0	20.0			
	6.3	260	2.5	142.45	9.0	20.0	9.0	20.0			
	7.7	213	3.0	116.55	9.0	20.0	-	-			
	5.0	321	1.8	277.79	9.0	20.0	9.0	20.0			
	6.0	271	2.2	234.59	9.0	20.0	9.0	20.0			
	6.8	238	2.6	206.01	9.0	20.0	9.0	20.0			
	10.1	153	2.9	277.79	9.0	20.0	9.0	20.0	PKD G 1390 63M2A	36	214-215
	3.2	508	0.8	282.43	3.0	20.0	-	-	PKD 1490 71M6B / 71M6A	43	210-211
	4.2	383	1.1	213.26	3.0	20.0	-	-			
	5.1	320	1.3	178.17	3.0	20.0	-	-			
	6.4	255	1.6	141.69	3.0	20.0	-	-			
	3.2	497	0.8	440.14	5.0	20.0	9.0	20.0	PKD 1490 63M4B	40	210-211
	4.4	362	1.1	320.68	-	-	-	-			
	5.0	319	1.3	282.43	-	-	-	-			
	6.6	241	1.7	213.26	-	-	-	-			
	7.9	201	2.0	178.17	-	-	-	-			
	9.9	160	2.5	141.69	-	-	-	-			
	4.2	356	0.9	668.11	5.0	20.0	8.0	20.0	PKD 1490 63M2A	40	210-211
	4.7	314	1.0	590.51	5.0	20.0	8.0	20.0			
	6.4	234	1.3	440.14	5.0	20.0	9.0	20.0			
	8.7	171	1.8	320.68	3.0	20.0	-	-			
	9.9	150	2.0	282.43	3.0	20.0	-	-			
	13.1	114	2.7	213.26	3.0	20.0	-	-			
	3.2	513	0.8	280.80	6.0	20.0	7.0	20.0	PKD 1390 71M6B / 71M6A	38	206-207
	3.6	450	0.9	246.59	6.0	20.0	8.0	20.0			
	4.4	376	1.1	206.01	6.0	20.0	7.0	20.0			
	4.9	334	1.3	183.15	6.0	20.0	8.0	20.0			
5.4	305	1.4	166.82	6.0	20.0	9.0	20.0				
6.4	257	1.6	140.87	6.0	20.0	9.0	20.0				
7.3	226	1.9	123.71	6.0	20.0	9.0	20.0				
8.2	201	2.1	109.98	6.0	20.0	9.0	20.0				
9.2	178	2.4	97.43	6.0	20.0	9.0	20.0				
10.5	157	2.7	86.12	6.0	20.0	9.0	20.0				
11.7	140	3.0	76.68	6.0	20.0	9.0	20.0				
4.2	384	1.0	332.51	5.0	20.0	8.0	20.0	PKD 1390 63M4B			
5.0	324	1.2	280.80	6.0	20.0	9.0	20.0				
5.7	285	1.4	246.59	6.0	20.0	9.0	20.0				
6.8	238	1.7	206.01	6.0	20.0	9.0	20.0				
8.4	183	1.7	332.51	5.0	20.0	8.0	20.0	PKD 1390 63M2A	35	206-207	
10.0	155	2.0	280.80	6.0	20.0	9.0	20.0				
11.4	136	2.2	246.59	6.0	20.0	9.0	20.0				
13.6	114	2.7	206.01	6.0	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_{RGR} [kN]	F_{AGR} [kN]	Tip / Type / Typ IE2 / IE3		
0.18	14.3	116	1.1	62.77	4.6	9.0	-	-	PKD C 1290 71M6B / 71M6A	26	194-195
	16.4	102	1.1	54.92	4.6	9.0	-	-			
	18.1	92	1.9	49.69	4.6	9.0	-	-			
	20.7	81	2.0	43.48	4.7	9.0	-	-			
	23.3	72	2.8	38.59	4.7	9.0	-	-			
	22.3	74	1.7	62.77	4.6	9.0	-	-	PKD C 1290 63M4B	23	194-195
	25.5	65	1.7	54.92	4.6	9.0	-	-			
	28.2	59	2.9	49.69	4.6	9.0	-	-			
	32.2	51	2.9	43.48	4.7	9.0	-	-			
	44.6	36	2.6	62.77	4.6	9.0	-	-	PKD C 1290 63M2A	23	194-195
	51.0	31	2.7	54.92	4.6	9.0	-	-			
	16.8	99	1.0	53.52	3.1	5.6	-	-	PKD B 0290 71M6B / 71M6A	19	190-191
	19.2	87	0.9	46.83	3.2	5.6	-	-			
	21.8	76	1.6	41.23	3.3	5.6	-	-			
	24.9	67	1.6	36.08	3.3	5.6	-	-			
	27.9	60	2.1	32.24	3.2	5.6	-	-			
	31.9	52	2.4	28.21	3.2	5.6	-	-			
	47.8	35	2.6	18.81	3.2	5.6	-	-			
	26.2	63	1.4	53.52	3.1	5.6	-	-	PKD B 0290 63M4B	16	190-191
	29.9	55	1.4	46.83	3.2	5.6	-	-			
	34.0	49	2.4	41.23	3.3	5.6	-	-			
	38.8	43	2.4	36.08	3.3	5.6	-	-			
	38.8	41	1.0	72.24	3.1	5.6	-	-	PKD B 0290 63M2A	16	190-191
	44.3	36	1.1	63.21	3.1	5.6	-	-			
52.3	31	2.2	53.52	3.1	5.6	-	-				
59.8	27	2.1	46.83	3.2	5.6	-	-				
22.7	73	1.1	39.64	3.1	5.1	-	-	PKD A 0290 71M6B / 71M6A	15	186-187	
25.9	64	1.2	34.69	3.2	5.1	-	-				
29.9	56	1.3	30.13	3.2	5.1	-	-				
34.1	49	1.9	26.36	3.2	5.1	-	-				
38.7	43	2.2	23.26	3.3	5.1	-	-				
44.2	38	2.5	20.35	3.3	5.1	-	-				
51.2	33	1.9	17.58	3.3	5.1	-	-				
25.6	64	0.8	54.62	3.2	5.1	-	-	PKD A 0290 63M4B	12	186-187	
29.3	56	0.8	47.79	3.2	5.1	-	-				
35.3	47	1.7	39.64	3.1	5.1	-	-				
40.4	41	1.8	34.69	3.2	5.1	-	-				
46.5	36	2.0	30.13	3.2	5.1	-	-				
53.1	31	2.9	26.36	3.2	5.1	-	-				
79.6	21	2.9	17.58	3.3	5.1	-	-				
51.3	31	1.2	54.62	3.2	5.1	-	-	PKD A 0290 63M2A	12	186-187	
58.6	27	1.3	47.79	3.2	5.1	-	-				
70.6	23	2.7	39.64	3.1	5.1	-	-				
80.7	20	2.9	34.69	3.2	5.1	-	-				
0.25	0.5	4696	1.9	1909.17	64.0	50.0	-	-	PKD 7390/32 71M6C / 71M6D	362	278
	0.6	3562	2.5	1448.34	64.0	50.0	66.0	50.0			
	0.7	2930	2.9	1909.17	-	-	-	-	PKD 7390/32 71M4A / 71M4B	362	278
	0.5	4503	1.9	1830.71	64.0	50.0	-	-	PKD 6390/32 71M6C / 71M6D	362	278
	0.6	3416	2.5	1388.82	64.0	50.0	66.0	50.0			
	0.8	2810	2.9	1830.71	-	-	-	-	PKD 6390/32 71M4A / 71M4B	362	278
	0.5	4681	1.1	1874.35	33.0	45.0	-	-	PKD 5490 71M6C / 71M6D	206	250-251
	0.6	3496	1.4	1399.82	33.0	45.0	38.0	45.0			
	0.8	2652	1.9	1061.93	36.0	45.0	38.0	45.0			
	1.0	2325	2.2	931.06	36.0	45.0	38.0	45.0			
	1.3	1757	2.9	703.71	36.0	45.0	38.0	45.0			
	0.4	5862	0.8	3736.07	-	-	-	-	PKD 5490 71M4A / 71M4B	206	250-251
0.7	2941	1.6	1874.35	-	-	-	-				
1.0	2196	2.2	1399.82	33.0	45.0	38.0	45.0				
1.3	1666	2.9	1061.93	36.0	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_{RGR} [kN]	F_{AGR} [kN]	Tip / Type / Typ IE2 / IE3	 Kg	 mm
0.25	0.6	3788	0.8	1516.84	23.0	40.0	28.0	40.0	PKD 4490 71M6C / 71M6D	128	242-243
	0.8	2781	1.1	1113.75	25.0	40.0	28.0	40.0			
	1.0	2203	1.3	882.35	27.0	40.0	28.0	40.0			
	1.4	1610	1.8	644.73	27.0	40.0	28.0	40.0			
	1.6	1418	2.1	567.85	27.0	40.0	28.0	40.0			
	0.7	3340	0.8	2128.80	-	-	-	-	PKD 4490 71M4A / 71M4B	128	242-243
	0.9	2380	1.2	1516.84	23.0	40.0	28.0	40.0			
	1.3	1747	1.6	1113.75	25.0	40.0	28.0	40.0			
	1.6	1384	2.0	882.35	27.0	40.0	28.0	40.0			
	2.2	1012	2.8	644.73	27.0	40.0	28.0	40.0			
	1.3	1727	0.9	691.75	11.0	15.0	15.0	29.0	PKD 3490 71M6C / 71M6D	74	234-235
	1.7	1346	1.2	538.92	13.0	15.0	15.0	28.0			
	2.3	997	1.6	399.39	14.0	15.0	15.0	26.0			
	2.5	881	1.8	353.00	14.0	15.0	15.0	26.0			
	3.4	669	2.4	267.79	3.0	15.0	15.0	24.0			
	4.2	537	3.0	215.12	3.0	15.0	15.0	23.0			
	1.2	1806	0.9	1151.03	1.0	15.0	13.0	30.0			
	1.6	1370	1.1	873.20	9.0	15.0	15.0	30.0			
	2.0	1085	1.4	691.75	11.0	15.0	15.0	29.0			
	2.6	846	1.8	538.92	13.0	15.0	15.0	28.0			
3.5	627	2.5	399.39	14.0	15.0	15.0	26.0				
4.0	554	2.8	353.00	14.0	15.0	15.0	26.0				
1.5	1349	0.9	1825.06	1.0	15.0	-	-	PKD 3490 63M2B	71	234-235	
2.1	1008	1.2	1363.01	1.0	15.0	15.0	30.0				
2.4	851	1.4	1151.03	1.0	15.0	13.0	30.0				
3.2	646	1.8	873.20	9.0	15.0	15.0	30.0				
4.0	511	2.3	691.75	11.0	15.0	15.0	29.0				
5.2	398	3.0	538.92	13.0	15.0	15.0	28.0				
3.0	751	2.2	296.10	14.0	15.0	15.0	23.0				PKD 3390 71M6C / 71M6D
3.6	634	2.6	250.01	14.0	15.0	15.0	23.0				
1.9	1181	0.8	473.11	3.0	12.0	9.0	25.0	PKD 2490 71M6C / 71M6D	51	226-227	
2.6	848	1.1	339.72	7.0	12.0	11.0	24.0				
3.0	743	1.2	297.67	8.0	12.0	12.0	24.0				
3.9	572	1.2	228.98	8.0	12.0	12.0	22.0				
2.1	1064	0.8	678.31	1.0	12.0	9.0	25.0				PKD 2490 71M4A / 71M4B
2.5	882	1.0	562.44	3.0	12.0	8.0	25.0				
3.0	742	1.2	473.11	3.0	12.0	9.0	25.0				
4.1	533	1.6	339.72	7.0	12.0	11.0	24.0				
4.7	467	1.8	297.67	8.0	12.0	12.0	24.0				
6.1	359	1.8	228.98	8.0	12.0	12.0	22.0				
2.5	829	0.8	1121.09	1.0	12.0	8.0	25.0	PKD 2490 63M2B	48	226-227	
2.9	704	0.9	952.47	1.0	12.0	10.0	25.0				
3.7	558	1.2	754.58	1.0	12.0	11.0	25.0				
4.1	502	1.3	678.31	1.0	12.0	11.0	25.0				
5.0	416	1.6	562.44	3.0	12.0	8.0	25.0				
5.9	350	1.9	473.11	3.0	12.0	9.0	25.0				
8.2	251	2.6	339.72	7.0	12.0	11.0	24.0				
9.4	220	3.0	297.67	8.0	12.0	12.0	24.0				
12.2	169	2.9	228.98	8.0	12.0	12.0	22.0				
3.3	702	1.2	276.87	5.0	12.0	10.0	22.0				PKD 2390 71M6C / 71M6D
3.9	590	1.2	232.89	8.0	12.0	12.0	22.0				
4.1	556	1.6	219.34	3.0	12.0	11.0	21.0				
4.9	468	1.9	184.51	8.0	12.0	12.0	20.0				
5.3	431	2.1	169.88	5.0	12.0	11.0	19.0				
5.1	444	1.8	276.87	5.0	12.0	10.0	22.0	PKD 2390 71M4A / 71M4B	46	222-223	
6.0	373	1.9	232.89	8.0	12.0	12.0	22.0				
6.4	352	2.4	219.34	3.0	12.0	11.0	21.0				
7.6	296	2.9	184.51	8.0	12.0	12.0	20.0				
10.1	212	2.9	276.87	5.0	12.0	10.0	22.0	PKD 2390 63M2B	43	222-223	
12.0	178	3.0	232.89	8.0	12.0	12.0	22.0				



P_1 [kW]	n_2 [Min ⁻¹]	M_2 [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{RGR} [kN]	F_{AGR} [kN]	Tip / Type / Typ IE2 / IE3						
0.25	3.4	669	1.0	267.91	8.0	20.0	-	-	PKD G 1490 71M6C / 71M6D	44	218-219				
	3.8	589	1.1	235.95	8.0	20.0	-	-							
	5.1	445	1.3	178.17	8.0	20.0	-	-							
	6.7	336	1.3	134.41	8.0	20.0	-	-							
	2.8	774	0.8	493.33	7.0	20.0	9.0	20.0	PKD G 1490 71M4A / 71M4B	44	218-219				
	3.8	577	1.1	367.72	8.0	20.0	9.0	20.0							
	5.2	420	1.5	267.91	-	-	-	-							
	5.9	370	1.6	235.95	-	-	-	-							
	7.9	280	2.0	178.17	-	-	-	-							
	10.4	211	2.0	134.41	-	-	-	-							
	4.4	466	1.0	630.06	7.0	20.0	9.0	20.0	PKD G 1490 63M2B	41	218-219				
	5.0	413	1.1	558.17	7.0	20.0	9.0	20.0							
	5.7	365	1.3	493.33	7.0	20.0	9.0	20.0							
	7.6	272	1.7	367.72	8.0	20.0	9.0	20.0							
	10.5	198	2.3	267.91	8.0	20.0	-	-							
	11.9	174	2.7	235.95	8.0	20.0	-	-							
	3.2	704	0.9	277.79	8.0	20.0	9.0	20.0	PKD G 1390 71M6C / 71M6D	39	214-215				
	3.8	595	1.0	234.59	9.0	20.0	9.0	20.0							
	4.4	522	1.2	206.01	9.0	20.0	9.0	20.0							
	4.9	464	1.4	183.15	8.0	20.0	9.0	20.0							
	6.0	380	1.7	149.85	9.0	20.0	9.0	20.0							
	6.3	361	1.8	142.45	8.0	20.0	9.0	20.0							
	7.7	295	2.2	116.55	9.0	20.0	9.0	20.0							
	9.8	233	2.3	91.88	9.0	20.0	9.0	20.0							
	5.0	445	1.3	277.79	8.0	20.0	9.0	20.0	PKD G 1390 71M4A / 71M4B	39	214-215				
	6.0	376	1.6	234.59	9.0	20.0	9.0	20.0							
	6.8	330	1.8	206.01	9.0	20.0	9.0	20.0							
	7.6	294	2.1	183.15	8.0	20.0	9.0	20.0							
	9.3	240	2.5	149.85	9.0	20.0	9.0	20.0							
	9.8	228	2.7	142.45	8.0	20.0	9.0	20.0							
	10.1	213	2.1	277.79	8.0	20.0	9.0	20.0	PKD G 1390 63M2B	36	214-215				
	11.9	180	2.5	234.59	9.0	20.0	9.0	20.0							
	13.6	158	2.9	206.01	9.0	20.0	9.0	20.0							
	4.2	533	0.8	213.26	5.0	20.0	-	-	PKD 1490 71M6C / 71M6D	43	210-211				
	5.1	445	0.9	178.17	5.0	20.0	-	-							
	6.4	354	1.2	141.69	5.0	20.0	-	-							
	4.4	503	0.8	320.68	-	-	-	-	PKD 1490 71M4A / 71M4B	43	210-211				
	5.0	443	0.9	282.43	-	-	-	-							
	6.6	335	1.2	213.26	-	-	-	-							
	7.9	280	1.4	178.17	-	-	-	-							
	9.9	222	1.8	141.69	-	-	-	-							
	6.4	325	0.9	440.14	5.0	20.0	9.0	20.0	PKD 1490 63M2B	40	210-211				
	8.7	237	1.3	320.68	5.0	20.0	-	-							
	9.9	209	1.5	282.43	5.0	20.0	-	-							
	13.1	158	1.9	213.26	5.0	20.0	-	-							
	15.7	132	2.3	178.17	5.0	20.0	-	-							
	19.8	105	2.9	141.69	5.0	20.0	-	-							
	4.4	522	0.8	206.01	6.0	20.0	7.0	20.0	PKD 1390 71M6C / 71M6D	38	206-207				
	4.9	464	0.9	183.15	4.0	20.0	9.0	20.0							
	5.4	423	1.0	166.82	6.0	20.0	9.0	20.0							
	6.4	357	1.2	140.87	7.0	20.0	9.0	20.0							
	7.3	314	1.3	123.71	7.0	20.0	9.0	20.0							
	8.2	279	1.5	109.98	5.0	20.0	9.0	20.0							
	9.2	247	1.7	97.43	5.0	20.0	9.0	20.0							
	10.5	218	1.9	86.12	5.0	20.0	9.0	20.0							
	11.7	194	2.2	76.68	5.0	20.0	9.0	20.0							
	14.3	159	2.6	62.74	5.0	20.0	9.0	20.0							
	16.3	140	3.0	55.26	5.0	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_{RGR} [kN]	F_{AGR} [kN]	Tip / Type / Typ IE2 / IE3		
0.25	4.2	533	0.8	332.51	5.0	20.0	8.0	20.0	PKD 1390 71M4A / 71M4B	38	206-207
	5.0	450	0.9	280.80	4.0	20.0	8.0	20.0			
	5.7	395	1.0	246.59	5.0	20.0	8.0	20.0			
	6.8	330	1.2	206.01	6.0	20.0	9.0	20.0			
	7.6	294	1.4	183.15	4.0	20.0	8.0	20.0			
	8.4	267	1.5	166.82	6.0	20.0	9.0	20.0			
	9.9	226	1.8	140.87	7.0	20.0	9.0	20.0			
	11.3	198	2.0	123.71	7.0	20.0	9.0	20.0			
	8.4	255	1.2	332.51	5.0	20.0	8.0	20.0	PKD 1390 63M2B	35	206-207
	10.0	215	1.4	280.80	4.0	20.0	8.0	20.0			
	11.4	189	1.6	246.59	5.0	20.0	8.0	20.0			
	13.6	158	1.9	206.01	6.0	20.0	9.0	20.0			
	16.8	128	2.4	166.82	6.0	20.0	9.0	20.0			
	19.9	108	2.8	140.87	7.0	20.0	9.0	20.0			
	14.1	165	2.9	63.96	8.0	12.0	-	-	PKD H 5290 71M6C / 71M6D	47	202-203
	16.1	144	2.9	55.96	8.0	12.0	-	-			
	15.2	152	2.6	59.20	6.1	12.0	-	-	PKD F 4290 71M6C / 71M6D	35	198-199
	17.4	133	2.7	51.80	6.1	12.0	-	-			
	14.3	162	0.8	62.77	4.5	9.0	-	-	PKD C 1290 71M6C / 71M6D	26	194-195
	16.4	141	0.8	54.92	4.5	9.0	-	-			
	18.1	128	1.4	49.69	4.6	9.0	-	-			
	20.7	112	1.4	43.48	4.6	9.0	-	-			
	23.3	99	2.0	38.59	4.6	9.0	-	-			
	26.7	87	2.2	33.76	4.6	9.0	-	-			
	22.3	103	1.2	62.77	4.5	9.0	-	-	PKD C 1290 71M4A / 71M4B	26	194-195
	25.5	90	1.2	54.92	4.5	9.0	-	-			
	28.2	81	2.1	49.69	4.6	9.0	-	-			
	32.2	71	2.1	43.48	4.6	9.0	-	-			
	36.3	63	3.0	38.59	4.6	9.0	-	-			
	44.6	50	1.9	62.77	4.5	9.0	-	-	PKD C 1290 63M2B	23	194-195
	51.0	44	1.9	54.92	4.5	9.0	-	-			
	21.8	106	1.1	41.23	3.1	5.6	-	-	PKD B 0290 71M6C / 71M6D	19	190-191
	24.9	93	1.1	36.08	3.2	5.6	-	-			
	27.9	83	1.5	32.24	3.2	5.6	-	-			
	31.9	73	1.7	28.21	3.3	5.6	-	-			
	47.8	48	1.8	18.81	3.4	5.6	-	-			
26.2	88	1.0	53.52	2.9	5.6	-	-	PKD B 0290 71M4A / 71M4B	19	190-191	
29.9	77	1.0	46.83	3.0	5.6	-	-				
34.0	67	1.7	41.23	3.1	5.6	-	-				
38.8	59	1.7	36.08	3.2	5.6	-	-				
43.4	53	2.3	32.24	3.2	5.6	-	-				
49.6	46	2.6	28.21	3.3	5.6	-	-				
74.4	31	2.8	18.81	3.4	5.6	-	-				
44.3	50	0.8	63.21	2.9	5.6	-	-	PKD B 0290 63M2B	16	190-191	
52.3	42	1.6	53.52	2.9	5.6	-	-				
59.8	37	1.5	46.83	3.0	5.6	-	-				
67.9	33	2.7	41.23	3.1	5.6	-	-				
77.6	29	2.7	36.08	3.2	5.6	-	-				
22.7	102	0.8	39.64	3.0	5.1	-	-	PKD A 0290 71M6C / 71M6D	15	186-187	
25.9	89	0.9	34.69	3.1	5.1	-	-				
29.9	78	0.9	30.13	3.1	5.1	-	-				
34.1	68	1.4	26.36	3.2	5.1	-	-				
38.7	60	1.6	23.26	3.2	5.1	-	-				
44.2	52	1.8	20.35	3.2	5.1	-	-				
51.2	45	1.4	17.58	3.2	5.1	-	-				
66.3	35	2.3	13.57	3.2	5.1	-	-				
35.3	65	1.2	39.64	3.0	5.1	-	-	PKD A 0290 71M4A / 71M4B	15	186-187	
40.4	57	1.3	34.69	3.1	5.1	-	-				
46.5	49	1.4	30.13	3.1	5.1	-	-				
53.1	43	2.1	26.36	3.2	5.1	-	-				
60.2	38	2.4	23.26	3.2	5.1	-	-				
68.8	33	2.7	20.35	3.2	5.1	-	-				
79.6	29	2.1	17.58	3.2	5.1	-	-				



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 / Typ IE2 / IE3	 Kg	 mm
0.25	51.3	43	0.9	54.62	3.0	5.1	-	-	PKD A 0290 63M2B	12	186-187
	58.6	38	0.9	47.79	3.0	5.1	-	-			
	70.6	31	1.9	39.64	3.0	5.1	-	-			
	80.7	28	2.1	34.69	3.1	5.1	-	-			
	92.9	24	2.2	30.13	3.1	5.1	-	-			
0.37	0.3	11810	0.8	3244.21	64.0	50.0	-	-	PKD 7390/32 80M6A	364	278
	0.4	8419	1.1	2312.67	64.0	50.0	-	-			
	0.5	6950	1.3	1909.17	64.0	50.0	-	-			
	0.6	5272	1.7	1448.34	64.0	50.0	66.0	50.0			
	0.8	4245	2.1	1166.22	64.0	50.0	66.0	50.0			
	0.9	3540	2.5	972.42	64.0	50.0	66.0	50.0			
	0.7	4337	2.0	1909.17	-	-	-	-	PKD 7390/32 71M4B / 71M4C	362	278
	1.0	3290	2.6	1448.34	64.0	50.0	66.0	50.0			
	0.3	11325	0.8	3110.88	64.0	50.0	-	-	PKD 6390/32 80M6A	364	278
	0.4	8073	1.1	2217.63	64.0	50.0	-	-			
	0.5	6664	1.3	1830.71	64.0	50.0	-	-			
	0.6	5056	1.7	1388.82	64.0	50.0	66.0	50.0			
	0.8	4071	2.1	1118.29	64.0	50.0	66.0	50.0			
	1.0	3394	2.5	932.46	64.0	50.0	66.0	50.0			
	0.8	4159	2.0	1830.71	-	-	-	-	PKD 6390/32 71M4B / 71M4C	362	278
	1.0	3155	2.6	1388.82	64.0	50.0	66.0	50.0			
	0.6	5173	1.0	1399.82	33.0	45.0	38.0	45.0	PKD 5490 80M6A	208	250-251
	0.8	3925	1.3	1061.93	36.0	45.0	38.0	45.0			
	1.0	3441	1.5	931.06	36.0	45.0	38.0	45.0			
	1.3	2601	1.9	703.71	37.0	45.0	38.0	45.0			
	1.6	2146	2.3	580.56	33.0	45.0	38.0	45.0			
	2.0	1697	3.0	459.05	33.0	45.0	38.0	45.0			
	0.7	4352	1.1	1874.35	-	-	-	-	PKD 5490 71M4B / 71M4C	206	250-251
	1.0	3250	1.5	1399.82	33.0	45.0	38.0	45.0			
	1.3	2466	1.9	1061.93	36.0	45.0	38.0	45.0			
	1.5	2162	2.2	931.06	36.0	45.0	38.0	45.0			
	2.0	1634	2.9	703.71	37.0	45.0	38.0	45.0			
	0.7	4089	0.9	3736.07	33.0	45.0	-	-			
	1.5	2051	1.8	1874.35	33.0	45.0	-	-			
	2.0	1532	2.4	1399.82	33.0	45.0	38.0	45.0			
	1.0	3261	0.9	882.35	24.0	40.0	28.0	40.0	PKD 4490 80M6A	130	242-243
	1.4	2383	1.2	644.73	26.0	40.0	28.0	40.0			
1.6	2099	1.4	567.85	27.0	40.0	28.0	40.0				
2.6	1295	2.3	350.42	23.0	40.0	28.0	38.0				
3.2	1031	2.9	278.98	23.0	40.0	28.0	35.0				
0.9	3522	0.8	1516.84	23.0	40.0	28.0	40.0	PKD 4490 71M4B / 71M4C			
1.3	2586	1.1	1113.75	21.0	40.0	28.0	40.0				
1.6	2049	1.4	882.35	24.0	40.0	28.0	40.0				
2.2	1497	1.9	644.73	26.0	40.0	28.0	40.0				
2.5	1319	2.1	567.85	27.0	40.0	28.0	40.0				
1.2	2621	0.8	2395.28	23.0	40.0	-	-		PKD 4490 71M2A	128	242-243
1.3	2330	0.9	2128.80	23.0	40.0	-	-				
1.8	1660	1.3	1516.84	23.0	40.0	28.0	40.0				
2.5	1219	1.7	1113.75	21.0	40.0	28.0	40.0				
3.2	966	2.2	882.35	24.0	40.0	28.0	40.0				
4.3	706	3.0	644.73	26.0	40.0	28.0	40.0				
2.3	1476	1.1	399.39	13.0	15.0	15.0	25.0	PKD 3490 80M6A			
2.5	1305	1.2	353.00	13.0	15.0	15.0	24.0				
3.4	990	1.6	267.79	14.0	15.0	15.0	23.0				
4.2	795	2.0	215.12	1.0	15.0	15.0	22.0				
5.4	619	2.6	167.59	1.0	15.0	15.0	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 / Typ IE2 / IE3		
0.37	1.6	2028	0.8	873.20	12.0	15.0	15.0	30.0	PKD 3490 71M4B / 71M4C	74	234-235
	2.0	1606	1.0	691.75	3.0	15.0	15.0	27.0			
	2.6	1251	1.2	538.92	10.0	15.0	15.0	26.0			
	3.5	927	1.7	399.39	13.0	15.0	15.0	25.0			
	4.0	820	1.9	353.00	13.0	15.0	15.0	24.0			
	5.2	622	2.5	267.79	14.0	15.0	15.0	23.0			
	2.1	1492	0.8	1363.01	12.0	15.0	15.0	30.0	PKD 3490 71M2A	74	234-235
	2.4	1260	0.9	1151.03	12.0	15.0	13.0	30.0			
	3.2	956	1.2	873.20	12.0	15.0	15.0	30.0			
	4.0	757	1.6	691.75	3.0	15.0	15.0	27.0			
	5.2	590	2.0	538.92	10.0	15.0	15.0	26.0			
	7.0	437	2.7	399.39	13.0	15.0	15.0	25.0			
	7.9	386	3.0	353.00	13.0	15.0	15.0	24.0			
	3.0	1111	1.5	296.10	14.0	15.0	15.0	23.0	PKD 3390 80M6A	68	230-231
	3.6	938	1.7	250.01	14.0	15.0	15.0	22.0			
	3.8	878	1.9	234.13	14.0	15.0	15.0	20.0			
	4.6	742	2.2	197.69	14.0	15.0	15.0	19.0			
	4.7	703	2.2	296.10	14.0	15.0	15.0	23.0	PKD 3390 71M4B / 71M4C	66	230-231
	5.6	593	2.6	250.01	14.0	15.0	15.0	22.0			
	3.0	1099	0.8	473.11	3.0	12.0	9.0	25.0	PKD 2490 71M4B / 71M4C	51	226-227
	4.1	789	1.1	339.72	0.4	12.0	9.0	23.0			
	4.7	691	1.2	297.67	4.0	12.0	10.0	22.0			
	6.1	532	1.2	228.98	8.0	12.0	12.0	22.0			
	3.7	826	0.8	754.58	3.0	12.0	8.0	25.0	PKD 2490 71M2A	51	226-227
	4.1	742	0.9	678.31	3.0	12.0	9.0	25.0			
	5.0	616	1.1	562.44	3.0	12.0	8.0	25.0			
	5.9	518	1.3	473.11	3.0	12.0	9.0	25.0			
	8.2	372	1.8	339.72	4.0	12.0	9.0	23.0			
	9.4	326	2.0	297.67	4.0	12.0	10.0	22.0			
	12.2	251	2.0	228.98	8.0	12.0	12.0	22.0			
	4.1	823	1.1	219.34	7.0	12.0	11.0	21.0			
	4.9	692	1.3	184.51	8.0	12.0	12.0	20.0			
	5.3	637	1.4	169.88	6.0	12.0	11.0	19.0			
	6.5	516	1.7	137.63	5.0	12.0	12.0	18.0			
	7.8	434	2.1	115.77	5.0	12.0	12.0	18.0			
	9.1	371	2.4	98.92	5.0	12.0	12.0	18.0			
	10.6	320	2.8	85.23	5.0	12.0	12.0	17.0			
	5.1	657	1.2	276.87	5.0	12.0	10.0	22.0	PKD 2390 71M4B / 71M4C	46	222-223
	6.0	553	1.3	232.89	7.0	12.0	11.0	21.0			
	6.4	520	1.7	219.34	7.0	12.0	11.0	21.0			
	7.6	438	2.0	184.51	8.0	12.0	12.0	20.0			
	8.2	403	2.1	169.88	6.0	12.0	11.0	19.0			
10.1	314	1.9	276.87	5.0	12.0	10.0	22.0	PKD 2390 71M2A	46	222-223	
12.0	264	2.0	232.89	7.0	12.0	11.0	21.0				
12.8	249	2.6	219.34	7.0	12.0	11.0	21.0				
5.2	622	1.0	267.91	-	-	-	-	PKD G 1490 71M4B / 71M4C	44	218-219	
5.9	548	1.1	235.95	-	-	-	-				
7.9	414	1.4	178.17	-	-	-	-				
10.4	312	1.4	134.41	-	-	-	-				
5.0	611	0.8	558.17	7.0	20.0	9.0	20.0	PKD G 1490 71M2A	44	218-219	
5.7	540	0.9	493.33	7.0	20.0	9.0	20.0				
7.6	402	1.2	367.72	7.0	20.0	9.0	20.0				
10.5	293	1.6	267.91	7.0	20.0	-	-				
11.9	258	1.8	235.95	7.0	20.0	-	-				
15.7	195	2.2	178.17	7.0	20.0	-	-				
20.8	147	2.2	134.41	7.0	20.0	-	-				



P_1 [kW]	n_2 [Min ⁻¹]	M_2 [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{RGR} [kN]	F_{AGR} [kN]	Tip / Type / Typ IE2 / IE3	 Kg	 mm			
0.37	4.9	687	0.9	183.15	8.0	20.0	9.0	20.0	PKD G 1390 80M6A	41	214-215			
	6.0	562	1.1	149.85	9.0	20.0	9.0	20.0						
	6.3	534	1.2	142.45	8.0	20.0	9.0	20.0						
	7.7	437	1.5	116.55	9.0	20.0	9.0	20.0						
	9.8	345	1.5	91.88	9.0	20.0	9.0	20.0						
	11.1	305	2.1	81.40	8.0	20.0	9.0	20.0						
	12.5	270	2.3	71.94	8.0	20.0	9.0	20.0						
	14.0	240	2.7	64.06	8.0	20.0	9.0	20.0						
	5.0	659	0.9	277.79	8.0	20.0	9.0	20.0				PKD G 1390 71M4B / 71M4C	39	214-215
	6.0	557	1.1	234.59	7.0	20.0	9.0	20.0						
	6.8	489	1.2	206.01	8.0	20.0	9.0	20.0						
	7.6	435	1.4	183.15	8.0	20.0	9.0	20.0						
	9.3	356	1.7	149.85	9.0	20.0	9.0	20.0						
	9.8	338	1.8	142.45	8.0	20.0	9.0	20.0						
	12.0	277	2.2	116.55	9.0	20.0	9.0	20.0						
	15.2	218	2.3	91.88	9.0	20.0	9.0	20.0						
	10.1	315	1.4	277.79	8.0	20.0	9.0	20.0	PKD G 1390 71M2A	39	214-215			
	11.9	266	1.7	234.59	7.0	20.0	9.0	20.0						
	13.6	234	2.0	206.01	8.0	20.0	9.0	20.0						
	15.3	208	2.2	183.15	8.0	20.0	9.0	20.0						
	18.7	170	2.7	149.85	9.0	20.0	9.0	20.0						
	19.7	162	2.9	142.45	8.0	20.0	-	-						
	6.6	495	0.8	213.26	-	-	-	-	PKD 1490 71M4B / 71M4C	43	210-211			
	7.9	414	1.0	178.17	-	-	-	-						
	9.9	329	1.2	141.69	-	-	-	-						
	8.7	351	0.9	320.68	5.0	20.0	-	-	PKD 1490 71M2A	43	210-211			
	9.9	309	1.0	282.43	5.0	20.0	-	-						
	13.1	233	1.3	213.26	5.0	20.0	-	-						
	15.7	195	1.6	178.17	5.0	20.0	-	-						
	19.8	155	2.0	141.69	5.0	20.0	-	-						
	8.2	413	1.0	109.98	6.0	20.0	9.0	20.0	PKD 1390 80M6A	40	206-207			
	9.2	366	1.1	97.43	7.0	20.0	9.0	20.0						
	10.5	323	1.3	86.12	7.0	20.0	9.0	20.0						
	11.7	288	1.5	76.68	5.0	20.0	9.0	20.0						
	14.3	235	1.8	62.74	5.0	20.0	9.0	20.0						
	16.3	207	2.0	55.26	5.0	20.0	9.0	20.0						
	18.4	184	2.3	48.92	5.0	20.0	9.0	20.0						
	21.6	157	2.7	41.72	5.0	20.0	9.0	20.0						
	6.8	489	0.8	206.01	6.0	20.0	9.0	20.0				PKD 1390 71M4B / 71M4C	38	206-207
	7.6	435	0.9	183.15	4.0	20.0	8.0	20.0						
	8.4	396	1.0	166.82	-	-	9.0	20.0						
	9.9	334	1.2	140.87	6.0	20.0	9.0	20.0						
	11.3	294	1.4	123.71	6.0	20.0	9.0	20.0						
	12.7	261	1.5	109.98	6.0	20.0	9.0	20.0						
	14.4	231	1.7	97.43	7.0	20.0	9.0	20.0						
	16.3	204	2.0	86.12	7.0	20.0	9.0	20.0						
	8.4	377	0.8	332.51	6.0	20.0	8.0	20.0	PKD 1390 71M2A	38	206-207			
	10.0	318	1.0	280.80	6.0	20.0	8.0	20.0						
	11.4	280	1.1	246.59	6.0	20.0	8.0	20.0						
	13.6	234	1.3	206.01	6.0	20.0	9.0	20.0						
	15.3	208	1.5	183.15	4.0	20.0	8.0	20.0						
	16.8	189	1.6	166.82	6.0	20.0	9.0	20.0						
19.9	160	1.9	140.87	6.0	20.0	9.0	20.0							
22.6	140	2.2	123.71	6.0	20.0	9.0	20.0							
25.5	125	2.4	109.98	6.0	20.0	9.0	20.0							
28.7	110	2.8	97.43	7.0	20.0	9.0	20.0							
14.1	244	2.0	63.96	7.9	12.0	-	-	PKD H 5290 80M6A				49	202-203	
16.1	213	2.0	55.96	8.0	12.0	-	-							
17.2	200	3.0	52.42	8.0	12.0	-	-							
19.6	175	3.0	45.86	8.0	12.0	-	-							
22.1	155	3.0	40.77	8.0	12.0	-	-							
21.9	155	3.0	63.96	7.9	12.0	-	-	PKD H 5290 71M4B / 71M4C	47	202-203				
25.0	136	3.0	55.96	8.0	12.0	-	-							

P_1 [kW]	n_2 [Min ⁻¹]	M_2 [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{RGR} [kN]	F_{AGR} [kN]	Tip / Type / Typ IE2 / IE3	 Kg	 mm
0.37	15.2	226	1.7	59.20	6.1	12.0	-	-	PKD F 4290 80M6A	37	198-199
	17.4	197	1.8	51.80	6.1	12.0	-	-			
	18.7	183	2.2	48.01	6.1	12.0	-	-			
	21.4	160	2.2	42.01	6.1	12.0	-	-			
	24.1	142	2.4	37.34	6.1	12.0	-	-			
	23.6	143	2.6	59.20	6.1	12.0	-	-	PKD F 4290 71M4B / 71M4C	35	198-199
	27.0	126	2.7	51.80	6.1	12.0	-	-			
	18.1	189	0.9	49.69	4.3	9.0	-	-	PKD C 1290 80M6A	28	194-195
	20.7	166	1.0	43.48	4.4	9.0	-	-			
	23.3	147	1.4	38.59	4.5	9.0	-	-			
	26.7	129	1.5	33.76	4.6	9.0	-	-			
	28.8	119	1.7	31.27	4.5	9.0	-	-			
	32.9	104	2.3	27.36	4.5	9.0	-	-			
	37.0	93	2.4	24.32	4.5	9.0	-	-			
	41.0	84	2.4	21.94	4.5	9.0	-	-			
	22.3	152	0.8	62.77	4.1	9.0	-	-	PKD C 1290 71M4B / 71M4C	26	194-195
	25.5	133	0.8	54.92	4.3	9.0	-	-			
	28.2	120	1.4	49.69	4.3	9.0	-	-			
	32.2	105	1.4	43.48	4.4	9.0	-	-			
	36.3	94	2.0	38.59	4.5	9.0	-	-			
	41.5	82	2.3	33.76	4.6	9.0	-	-			
	44.6	74	1.3	62.77	4.1	9.0	-	-	PKD C 1290 71M2A	26	194-195
	51.0	65	1.3	54.92	4.3	9.0	-	-			
	56.3	58	2.2	49.69	4.3	9.0	-	-			
	64.4	51	2.2	43.48	4.4	9.0	-	-			
	21.8	157	0.8	41.23	2.7	5.6	-	-	PKD B 0290 80M6A	21	190-191
	24.9	137	0.8	36.08	2.9	5.6	-	-			
	27.9	123	1.0	32.24	3.0	5.6	-	-			
	31.9	107	1.2	28.21	3.1	5.6	-	-			
	34.6	99	1.3	25.99	3.3	5.6	-	-			
	39.6	87	1.5	22.74	3.3	5.6	-	-			
	47.8	72	1.2	18.81	3.3	5.6	-	-			
	57.6	59	2.1	15.62	2.9	5.6	-	-			
	66.8	51	2.5	13.48	2.9	5.6	-	-			
	76.3	45	2.7	11.79	2.9	5.6	-	-			
	87.0	39	2.9	10.35	2.9	5.6	-	-			
	34.0	100	1.2	41.23	2.7	5.6	-	-	PKD B 0290 71M4B / 71M4C	19	190-191
	38.8	87	1.1	36.08	2.9	5.6	-	-			
	43.4	78	1.5	32.24	3.0	5.6	-	-			
	49.6	68	1.8	28.21	3.1	5.6	-	-			
	74.4	46	1.9	18.81	3.3	5.6	-	-			
	52.3	63	1.1	53.52	2.7	5.6	-	-	PKD B 0290 71M2A	19	190-191
	59.8	55	1.0	46.83	2.7	5.6	-	-			
	67.9	48	1.8	41.23	2.7	5.6	-	-			
77.6	42	1.8	36.08	2.9	5.6	-	-				
86.8	38	2.4	32.24	3.0	5.6	-	-				
99.3	33	2.8	28.21	3.1	5.6	-	-				
148.9	22	2.9	18.81	3.3	5.6	-	-				
34.1	100	0.9	26.36	3.0	5.1	-	-	PKD A 0290 80M6A	17	186-187	
38.7	89	1.1	23.26	3.1	5.1	-	-				
44.2	78	1.2	20.35	3.1	5.1	-	-				
51.2	67	0.9	17.58	3.2	5.1	-	-				
66.3	52	1.5	13.57	3.2	5.1	-	-				
81.4	42	2.2	11.05	3.0	5.1	-	-				
93.1	37	2.6	9.67	3.0	5.1	-	-				
100.1	34	2.8	8.99	3.0	5.1	-	-				
35.3	96	0.8	39.64	2.6	5.1	-	-	PKD A 0290 71M4B / 71M4C	15	186-187	
40.4	84	0.9	34.69	2.8	5.1	-	-				
46.5	73	1.0	30.13	2.9	5.1	-	-				
53.1	64	1.4	26.36	3.0	5.1	-	-				
60.2	56	1.6	23.26	3.1	5.1	-	-				
68.8	49	1.8	20.35	3.1	5.1	-	-				
79.6	43	1.4	17.58	3.2	5.1	-	-				
103.2	33	2.3	13.57	3.2	5.1	-	-				



P_1 [kW]	n_2 [Min ⁻¹]	M_2 [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{RGR} [kN]	F_{AGR} [kN]	Tip / Type / Typ IE2 / IE3	 Kg	 mm
0.37	70.6	47	1.3	39.64	2.6	5.1	-	-	PKD A 0290 71M2A	15	186-187
	80.7	41	1.4	34.69	2.8	5.1	-	-			
	92.9	35	1.5	30.13	2.9	5.1	-	-			
	106.2	31	2.2	26.36	3.0	5.1	-	-			
	120.4	27	2.5	23.26	3.1	5.1	-	-			
	137.6	24	2.9	20.35	3.1	5.1	-	-			
	159.3	21	2.2	17.58	3.2	5.1	-	-			
0.55	0.5	10331	0.9	1909.17	61.0	50.0	-	-	PKD 7390/32 80M6B	364	278
	0.6	7837	1.1	1448.34	61.0	50.0	66.0	50.0			
	0.8	6311	1.4	1166.22	63.0	50.0	66.0	50.0			
	0.9	5262	1.7	972.42	64.0	50.0	66.0	50.0			
	1.2	4140	2.2	765.14	64.0	50.0	66.0	50.0			
	1.5	3226	2.8	596.10	64.0	50.0	66.0	50.0			
	0.4	10954	0.8	3244.21	-	-	-	-	PKD 7390/32 80M4B / 80M4C	364	278
	0.6	7809	1.1	2312.67	-	-	-	-			
	0.7	6447	1.3	1909.17	-	-	-	-			
	1.0	4890	1.7	1448.34	61.0	50.0	66.0	50.0			
	1.2	3938	2.2	1166.22	63.0	50.0	66.0	50.0			
	1.4	3283	2.6	972.42	64.0	50.0	66.0	50.0			
	1.5	2997	2.2	1909.17	61.0	50.0	-	-	PKD 7390/32 71M2B	362	278
	1.9	2274	2.8	1448.34	61.0	50.0	66.0	50.0			
	0.5	9907	0.9	1830.71	61.0	50.0	-	-	PKD 6390/32 80M6B	364	278
	0.6	7515	1.1	1388.82	61.0	50.0	66.0	50.0			
	0.8	6051	1.4	1118.29	63.0	50.0	66.0	50.0			
	1.0	5046	1.7	932.46	64.0	50.0	66.0	50.0			
	1.2	3970	2.2	733.69	64.0	50.0	66.0	50.0			
	1.6	3093	2.8	571.60	64.0	50.0	66.0	50.0			
	0.5	10504	0.8	3110.88	-	-	-	-	PKD 6390/32 80M4B / 80M4C	364	278
	0.6	7488	1.1	2217.63	-	-	-	-			
	0.8	6182	1.3	1830.71	-	-	-	-			
	1.0	4689	1.7	1388.82	61.0	50.0	66.0	50.0			
	1.3	3776	2.2	1118.29	63.0	50.0	66.0	50.0			
	1.5	3149	2.6	932.46	64.0	50.0	66.0	50.0			
	1.5	2874	2.2	1830.71	61.0	50.0	-	-	PKD 6390/32 71M2B	362	278
	2.0	2180	2.9	1388.82	61.0	50.0	66.0	50.0			
	0.8	5834	0.9	1061.93	31.0	45.0	38.0	45.0	PKD 5490 80M6B	208	250-251
	1.0	5115	1.0	931.06	33.0	45.0	38.0	45.0			
	1.3	3866	1.3	703.71	36.0	45.0	38.0	45.0			
	1.6	3189	1.6	580.56	37.0	45.0	38.0	45.0			
	2.0	2522	2.0	459.05	37.0	45.0	38.0	45.0			
	2.6	1916	2.6	348.85	33.0	45.0	38.0	45.0			
	1.0	4832	1.0	1399.82	24.0	45.0	38.0	45.0	PKD 5490 80M4B / 80M4C	208	250-251
	1.3	3665	1.3	1061.93	31.0	45.0	38.0	45.0			
1.5	3214	1.5	931.06	33.0	45.0	38.0	45.0				
2.0	2429	2.0	703.71	36.0	45.0	38.0	45.0				
2.4	2004	2.4	580.56	37.0	45.0	38.0	45.0				
3.0	1584	3.0	459.05	37.0	45.0	38.0	45.0				
1.5	3049	1.2	1874.35	24.0	45.0	-	-	PKD 5490 71M2B	206	250-251	
2.0	2277	1.6	1399.82	24.0	45.0	38.0	45.0				
2.6	1727	2.1	1061.93	31.0	45.0	38.0	45.0				
3.0	1515	2.4	931.06	33.0	45.0	38.0	45.0				
4.0	1145	2.7	703.71	36.0	45.0	38.0	45.0				
1.4	3542	0.8	644.73	23.0	40.0	28.0	40.0				PKD 4490 80M6B
1.6	3120	0.9	567.85	24.0	40.0	28.0	40.0				
2.6	1925	1.5	350.42	27.0	40.0	28.0	47.0				
3.2	1533	1.9	278.98	27.0	40.0	28.0	35.0				
4.4	1121	2.6	204.13	23.0	40.0	28.0	33.0				
1.6	3046	0.9	882.35	19.0	40.0	28.0	40.0	PKD 4490 80M4B / 80M4C	130	242-243	
2.2	2225	1.3	644.73	23.0	40.0	28.0	40.0				
2.5	1960	1.4	567.85	24.0	40.0	28.0	40.0				
4.0	1210	2.3	350.42	27.0	40.0	28.0	37.0				
5.0	963	2.9	278.98	27.0	40.0	28.0	35.0				



P_1 [kW]	n_2 [Min ⁻¹]	M_2 [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{RGR} [kN]	F_{AGR} [kN]	Tip / Type / Typ IE2 / IE3		
0.55	1.8	2467	0.9	1516.84	19.0	40.0	28.0	40.0	PKD 4490 71M2B	128	242-243
	2.5	1812	1.2	1113.75	19.0	40.0	28.0	40.0			
	3.2	1435	1.5	882.35	19.0	40.0	28.0	40.0			
	4.3	1049	2.0	644.73	23.0	40.0	28.0	40.0			
	4.9	924	2.3	567.85	24.0	40.0	28.0	40.0			
	2.5	1939	0.8	353.00	10.0	15.0	15.0	22.0	PKD 3490 80M6B	76	234-235
	3.4	1471	1.1	267.79	14.0	15.0	15.0	23.0			
	4.2	1182	1.4	215.12	15.0	15.0	15.0	22.0			
	5.4	921	1.8	167.59	15.0	15.0	15.0	21.0			
	3.5	1379	1.1	399.39	8.0	15.0	15.0	23.0	PKD 3490 80M4B / 80M4C	76	234-235
	4.0	1218	1.3	353.00	10.0	15.0	15.0	22.0			
	5.2	924	1.7	267.79	14.0	15.0	15.0	23.0			
	6.5	743	2.1	215.12	15.0	15.0	15.0	22.0			
	8.4	578	2.7	167.59	15.0	15.0	15.0	21.0			
	3.2	1420	0.8	873.20	8.0	15.0	15.0	30.0	PKD 3490 71M2B	74	234-235
	4.0	1125	1.0	691.75	8.0	15.0	15.0	27.0			
	5.2	877	1.3	538.92	8.0	15.0	15.0	26.0			
	7.0	650	1.8	399.39	8.0	15.0	15.0	23.0			
	7.9	574	2.1	353.00	10.0	15.0	15.0	22.0			
	10.5	436	2.7	267.79	14.0	15.0	15.0	23.0			
	3.0	1651	1.0	296.10	12.0	15.0	15.0	21.0	PKD 3390 80M6B	68	230-231
	3.6	1394	1.2	250.01	13.0	15.0	15.0	20.0			
	3.8	1306	1.2	234.13	13.0	15.0	15.0	20.0			
	4.6	1103	1.5	197.69	14.0	15.0	15.0	19.0			
	8.1	619	2.6	110.94	14.0	15.0	15.0	17.0			
	4.7	1044	1.5	296.10	12.0	15.0	15.0	21.0	PKD 3390 80M4B / 80M4C	68	230-231
	5.6	882	1.8	250.01	13.0	15.0	15.0	20.0			
	6.0	826	1.9	234.13	13.0	15.0	15.0	20.0			
	7.1	697	2.2	197.69	14.0	15.0	15.0	19.0			
	9.5	499	2.4	296.10	12.0	15.0	15.0	21.0	PKD 3390 71M2B	66	230-231
	11.2	421	2.8	250.01	13.0	15.0	15.0	20.0			
	5.9	770	0.8	473.11	3.0	12.0	9.0	25.0	PKD 2490 71M2B	51	226-227
	8.2	553	1.2	339.72	3.0	12.0	9.0	23.0			
	9.4	484	1.3	297.67	3.0	12.0	10.0	22.0			
	12.2	372	1.3	228.98	3.0	12.0	12.0	22.0			
	4.9	1029	0.9	184.51	6.0	12.0	11.0	19.0	PKD 2390 80M6B	48	222-223
	5.3	947	1.0	169.88	6.0	12.0	11.0	19.0			
	6.5	768	1.2	137.63	8.0	12.0	12.0	18.0			
	7.8	646	1.4	115.77	8.0	12.0	12.0	18.0			
	9.1	552	1.6	98.92	9.0	12.0	12.0	17.0			
	10.6	475	1.9	85.23	9.0	12.0	12.0	17.0			
	11.4	440	2.1	78.85	5.0	12.0	12.0	16.0			
	13.5	371	2.4	66.47	5.0	12.0	12.0	16.0			
	15.5	325	2.8	58.24	5.0	12.0	12.0	15.0			
6.4	774	1.1	219.34	3.0	12.0	9.0	20.0	PKD 2390 80M4B / 80M4C			
7.6	651	1.3	184.51	6.0	12.0	11.0	19.0				
8.2	599	1.4	169.88	6.0	12.0	11.0	19.0				
10.2	485	1.8	137.63	8.0	12.0	12.0	18.0				
12.1	408	2.1	115.77	8.0	12.0	12.0	18.0				
14.2	349	2.5	98.92	9.0	12.0	12.0	17.0				
16.4	301	2.9	85.23	9.0	12.0	12.0	17.0				
10.1	467	1.3	276.87	3.0	12.0	10.0	22.0	PKD 2390 71M2B	46	222-223	
12.0	393	1.4	232.89	3.0	12.0	11.0	21.0				
12.8	370	1.8	219.34	3.0	12.0	9.0	20.0				
15.2	311	2.1	184.51	6.0	12.0	11.0	19.0				
16.5	286	2.3	169.88	6.0	12.0	11.0	19.0				
7.6	598	0.8	367.72	7.0	20.0	-	-	PKD G 1490 71M2B	44	218-219	
10.5	436	1.1	267.91	7.0	20.0	-	-				
11.9	384	1.2	235.95	7.0	20.0	-	-				
15.7	290	1.5	178.17	7.0	20.0	-	-				
20.8	219	1.5	134.41	7.0	20.0	-	-				



P_1 [kW]	n_2 [Min ⁻¹]	M_2 [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{RGR} [kN]	F_{AGR} [kN]	Tip / Type / Typ IE2 / IE3					
0.55	6.0	836	0.8	149.85	8.0	20.0	-	-	PKD G 1390 80M6B	41	214-215			
	6.3	795	0.8	142.45	8.0	20.0	9.0	20.0						
	7.7	650	1.0	116.55	9.0	20.0	9.0	20.0						
	9.8	512	1.0	91.88	9.0	20.0	9.0	20.0						
	11.1	454	1.4	81.40	9.0	20.0	9.0	20.0						
	12.5	401	1.6	71.94	9.0	20.0	9.0	20.0						
	14.0	357	1.8	64.06	9.0	20.0	9.0	20.0						
	17.2	292	2.2	52.42	8.0	20.0	9.0	20.0						
	19.5	257	2.5	46.16	8.0	20.0	9.0	20.0						
	22.0	228	2.8	40.87	8.0	20.0	9.0	20.0						
	7.6	646	0.9	183.15	6.0	20.0	9.0	20.0				PKD G 1390 80M4B / 80M4C	41	214-215
	9.3	528	1.2	149.85	8.0	20.0	9.0	20.0						
	9.8	502	1.2	142.45	8.0	20.0	9.0	20.0						
	12.0	411	1.5	116.55	9.0	20.0	9.0	20.0						
	15.2	324	1.5	91.88	9.0	20.0	9.0	20.0						
	17.2	287	2.1	81.40	9.0	20.0	9.0	20.0						
	19.5	254	2.4	71.94	9.0	20.0	9.0	20.0						
	21.9	226	2.7	64.06	9.0	20.0	9.0	20.0						
	10.1	468	1.0	277.79	6.0	20.0	-	-	PKD G 1390 71M2B	39	214-215			
	11.9	395	1.1	234.59	6.0	20.0	9.0	20.0						
	13.6	347	1.3	206.01	6.0	20.0	9.0	20.0						
	15.3	309	1.5	183.15	6.0	20.0	-	-						
	18.7	253	1.8	149.85	8.0	20.0	-	-						
	19.7	240	1.9	142.45	8.0	20.0	-	-						
	24.0	196	2.4	116.55	9.0	20.0	-	-						
	30.5	155	2.5	91.88	9.0	20.0	-	-						
	13.1	347	0.9	213.26	5.0	20.0	-	-	PKD 1490 71M2B	43	210-211			
	15.7	290	1.0	178.17	5.0	20.0	-	-						
	19.8	230	1.3	141.69	5.0	20.0	-	-						
	9.2	543	0.8	97.43	5.0	20.0	8.0	20.0	PKD 1390 80M6B	40	206-207			
	10.5	480	0.9	86.12	6.0	20.0	9.0	20.0						
	11.7	428	1.0	76.68	6.0	20.0	9.0	20.0						
	14.3	350	1.2	62.74	7.0	20.0	9.0	20.0						
	16.3	308	1.4	55.26	6.0	20.0	9.0	20.0						
	18.4	273	1.5	48.92	6.0	20.0	9.0	20.0						
	21.6	233	1.8	41.72	6.0	20.0	9.0	20.0						
	25.8	194	2.2	34.86	6.0	20.0	9.0	20.0						
	28.6	176	2.4	31.48	6.0	20.0	9.0	20.0						
	32.5	155	2.7	27.72	6.0	20.0	9.0	20.0						
	12.7	388	1.0	109.98	5.0	20.0	8.0	20.0				PKD 1390 80M4B / 80M4C	40	206-207
	14.4	344	1.2	97.43	5.0	20.0	8.0	20.0						
	16.3	304	1.3	86.12	6.0	20.0	9.0	20.0						
	18.3	270	1.5	76.68	6.0	20.0	9.0	20.0						
	22.3	221	1.8	62.74	7.0	20.0	9.0	20.0						
	13.6	347	0.9	206.01	5.0	20.0	9.0	20.0	PKD 1390 71M2B	38	206-207			
	15.3	309	1.0	183.15	5.0	20.0	9.0	20.0						
	16.8	281	1.1	166.82	5.0	20.0	9.0	20.0						
	19.9	237	1.3	140.87	5.0	20.0	9.0	20.0						
22.6	209	1.5	123.71	5.0	20.0	9.0	20.0							
25.5	185	1.6	109.98	5.0	20.0	8.0	20.0							
28.7	164	1.9	97.43	5.0	20.0	8.0	20.0							
32.5	145	2.1	86.12	6.0	20.0	9.0	20.0							
36.5	129	2.4	76.68	6.0	20.0	9.0	20.0							
44.6	106	2.9	62.74	7.0	20.0	9.0	20.0							
14.1	362	1.3	63.96	7.9	12.0	-	-	PKD H 5290 80M6B				49	202-203	
16.1	317	1.3	55.96	8.0	12.0	-	-							
17.2	297	2.0	52.42	8.0	12.0	-	-							
19.6	260	2.0	45.86	7.9	12.0	-	-							
22.1	231	2.0	40.77	7.9	12.0	-	-							
21.9	230	2.0	63.96	7.9	12.0	-	-	PKD H 5290 80M4B / 80M4C	49	202-203				
25.0	202	2.0	55.96	8.0	12.0	-	-							
26.7	189	3.0	52.42	8.0	12.0	-	-							

P_1 [kW]	n_2 [Min ⁻¹]	M_2 [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{RGR} [kN]	F_{AGR} [kN]	Tip / Type / Typ IE2 / IE3					
0.55	15.2	335	1.2	59.20	5.5	12.0	-	-	PKD F 4290 80M6B	37	198-199			
	17.4	293	1.2	51.80	5.7	12.0	-	-						
	18.7	272	1.4	48.01	5.8	12.0	-	-						
	21.4	238	1.5	42.01	5.9	12.0	-	-						
	24.1	211	1.6	37.34	5.9	12.0	-	-						
	26.4	193	2.1	34.15	6.1	12.0	-	-						
	30.1	169	2.1	29.88	6.1	12.0	-	-						
	33.9	150	2.3	26.56	6.1	12.0	-	-						
	23.6	213	1.8	59.20	5.5	12.0	-	-				PKD F 4290 80M4B / 80M4C	37	198-199
	27.0	187	1.8	51.80	5.7	12.0	-	-						
	29.2	173	2.2	48.01	5.8	12.0	-	-						
	33.3	151	2.2	42.01	5.9	12.0	-	-						
	37.5	134	2.5	37.34	5.9	12.0	-	-						
	47.3	103	2.8	59.20	5.5	12.0	-	-	PKD F 4290 71M2B	35	198-199			
	54.1	90	2.9	51.80	5.7	12.0	-	-						
	23.3	219	0.9	38.59	4.2	9.0	-	-	PKD C 1290 80M6B	28	194-195			
	26.7	191	1.0	33.76	4.3	9.0	-	-						
	28.8	177	1.1	31.27	4.4	9.0	-	-						
	32.9	155	1.6	27.36	4.5	9.0	-	-						
	37.0	138	1.6	24.32	4.5	9.0	-	-						
	41.0	124	1.6	21.94	4.1	9.0	-	-						
	46.9	109	2.2	19.19	4.1	9.0	-	-						
	52.8	97	2.5	17.06	4.1	9.0	-	-						
	61.4	83	2.4	14.66	4.1	9.0	-	-						
	69.3	74	2.8	12.99	4.1	9.0	-	-						
	28.2	179	0.9	49.69	3.8	9.0	-	-				PKD C 1290 80M4B / 80M4C	28	194-195
	32.2	157	1.0	43.48	4.1	9.0	-	-						
	36.3	139	1.4	38.59	4.2	9.0	-	-						
	41.5	122	1.5	33.76	4.3	9.0	-	-						
	44.8	113	1.7	31.27	4.4	9.0	-	-						
	51.2	99	2.3	27.36	4.5	9.0	-	-						
	57.6	88	2.4	24.32	4.5	9.0	-	-						
	63.8	79	2.5	21.94	4.1	9.0	-	-						
	44.6	110	0.9	62.77	3.8	9.0	-	-	PKD C 1290 71M2B	26	194-195			
	51.0	96	0.9	54.92	3.8	9.0	-	-						
	56.3	87	1.5	49.69	3.8	9.0	-	-						
	64.4	76	1.5	43.48	4.1	9.0	-	-						
	72.6	67	2.1	38.59	4.2	9.0	-	-						
	82.9	59	2.4	33.76	4.3	9.0	-	-						
	31.9	160	0.8	28.21	2.7	5.6	-	-	PKD B 0290 80M6B	21	190-191			
	34.6	147	0.9	25.99	2.8	5.6	-	-						
	39.6	129	1.0	22.74	3.0	5.6	-	-						
	47.8	107	0.8	18.81	3.1	5.6	-	-						
	57.6	88	1.4	15.62	3.2	5.6	-	-						
	66.8	76	1.7	13.48	3.3	5.6	-	-						
	76.3	67	1.8	11.79	3.3	5.6	-	-						
	87.0	59	2.0	10.35	3.3	5.6	-	-						
	99.3	51	2.1	9.06	2.7	5.6	-	-						
112.5	45	2.3	8.00	2.7	5.6	-	-							
127.7	40	2.5	7.05	2.7	5.6	-	-							
149.0	34	2.8	6.04	2.7	5.6	-	-							
168.5	30	3.0	5.34	2.7	5.6	-	-							
34.0	148	0.8	41.23	-	-	-	-	PKD B 0290 80M4B / 80M4C				21	190-191	
38.8	130	0.8	36.08	2.9	5.6	-	-							
43.4	116	1.0	32.24	2.5	5.6	-	-							
49.6	102	1.2	28.21	2.7	5.6	-	-							
53.9	94	1.3	25.99	2.8	5.6	-	-							
61.6	82	1.5	22.74	3.0	5.6	-	-							
74.4	68	1.3	18.81	3.1	5.6	-	-							
89.6	56	2.1	15.62	3.2	5.6	-	-							
103.9	49	2.5	13.48	3.3	5.6	-	-							
118.7	42	2.7	11.79	3.3	5.6	-	-							
135.3	37	3.0	10.35	3.3	5.6	-	-							



P₁ [kW]	n₂ [Min ⁻¹]	M₂ [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{R GR} [kN]	F_{A GR} [kN]	Tip / Type / Typ IE2 / IE3	Kg	mm
0.55	67.9	72	1.2	41.23	2.9	5.6	-	-	PKD B 0290 71M2B	19	190-191
	77.6	63	1.2	36.08	2.9	5.6	-	-			
	86.8	56	1.6	32.24	2.5	5.6	-	-			
	99.3	49	1.9	28.21	2.7	5.6	-	-			
	148.9	33	2.0	18.81	3.1	5.6	-	-	PKD A 0290 80M6B	17	186-187
	44.2	115	0.8	20.35	2.9	5.1	-	-			
	66.3	77	1.0	13.57	3.1	5.1	-	-			
	81.4	63	1.5	11.05	3.2	5.1	-	-			
	93.1	55	1.7	9.67	3.2	5.1	-	-			
	100.1	51	1.9	8.99	3.2	5.1	-	-			
	114.5	45	2.1	7.86	2.6	5.1	-	-			
	139.5	37	2.4	6.45	2.6	5.1	-	-			
	155.7	33	2.6	5.78	2.6	5.1	-	-			
	171.8	30	2.8	5.24	2.6	5.1	-	-	PKD A 0290 80M4B / 80M4C	17	186-187
	53.1	95	0.9	26.36	2.7	5.1	-	-			
	60.2	84	1.1	23.26	-	-	-	-			
	68.8	73	1.2	20.35	2.9	5.1	-	-			
	79.6	63	0.9	17.58	3.0	5.1	-	-			
	103.2	49	1.5	13.57	3.1	5.1	-	-			
	126.7	40	2.3	11.05	3.2	5.1	-	-			
	144.8	35	2.6	9.67	3.2	5.1	-	-			
	155.7	32	2.8	8.99	3.2	5.1	-	-	PKD A 0290 71M2B	15	186-187
	70.6	69	0.9	39.64	2.7	5.1	-	-			
	80.7	61	0.9	34.69	2.7	5.1	-	-			
92.9	53	1.0	30.13	2.7	5.1	-	-				
106.2	46	1.5	26.36	2.7	5.1	-	-				
120.4	41	1.7	23.26	2.9	5.1	-	-				
137.6	36	1.9	20.35	2.9	5.1	-	-				
159.3	31	1.5	17.58	3.0	5.1	-	-				
206.3	24	2.4	13.57	3.1	5.1	-	-	PKD G 9390/63 90S6B / 90L6C	1788	282	
0.75	0.1	60376	0.9	8306.57	-	-	-				-
	0.1	57001	0.9	7842.34	-	-	-				-
	0.1	48746	1.1	6706.55	-	-	-				-
	0.2	40526	1.3	5575.65	-	-	-				-
	0.2	32282	1.6	4441.42	-	-	-				-
	0.2	26838	2.0	3692.48	-	-	-				-
	0.3	23332	2.3	3210.12	-	-	-				-
	0.3	19473	2.7	2679.06	-	-	-				-
	0.2	36404	0.9	4933.39	152.0	70.0	-				-
	0.3	26236	1.0	3555.41	152.0	70.0	-				-
	0.3	21499	1.3	2913.46	152.0	70.0	-				-
	0.4	15602	2.2	2114.30	152.0	70.0	-				-
	0.5	13246	2.5	1795.13	152.0	70.0	-				-
	0.2	26592	0.8	3603.72	120.0	65.0	-				-
	0.3	22277	0.9	3018.87	120.0	65.0	-	-			
0.4	15600	1.3	2114.13	120.0	65.0	-	-				
0.5	13183	1.6	1786.51	120.0	65.0	-	-				
0.6	10797	1.9	1463.24	120.0	65.0	120.0	65.0				
0.7	8882	2.4	1203.73	120.0	65.0	120.0	65.0				
0.4	15104	0.9	2046.84	95.0	60.0	-	-				
0.5	13371	1.0	1812.03	95.0	60.0	-	-				
0.6	10829	1.3	1467.49	95.0	60.0	95.0	60.0				
0.9	7512	1.8	1017.96	95.0	60.0	95.0	60.0				
1.1	6238	2.2	845.40	95.0	60.0	95.0	60.0				
1.3	5202	2.6	705.03	95.0	60.0	95.0	60.0				
0.6	10687	0.8	1448.34	56.0	50.0	66.0	50.0				
0.8	8606	1.0	1166.22	60.0	50.0	66.0	50.0				
0.9	7176	1.2	972.42	62.0	50.0	66.0	50.0				
1.2	5646	1.6	765.14	63.0	50.0	66.0	50.0				
1.5	4399	2.0	596.10	61.0	50.0	66.0	50.0				
1.9	3475	2.6	470.91	61.0	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_{RGR} [kN]	F_{AGR} [kN]	Tip / Type / Typ IE2 / IE3		
0.75	0.6	10649	0.8	2312.67	-	-	-	-	PKD 7390/32 80M4C / 80M4D	364	278
	0.7	8791	1.0	1909.17	-	-	-	-			
	1.0	6669	1.3	1448.34	56.0	50.0	66.0	50.0			
	1.2	5370	1.6	1166.22	60.0	50.0	66.0	50.0			
	1.4	4477	1.9	972.42	62.0	50.0	66.0	50.0			
	1.8	3523	2.4	765.14	63.0	50.0	66.0	50.0			
	0.9	6945	0.9	3244.21	56.0	50.0	-	-	PKD 7390/32 80M2B / 80M2C	364	278
	1.2	4951	1.3	2312.67	56.0	50.0	-	-			
	1.5	4087	1.6	1909.17	56.0	50.0	-	-			
	1.9	3100	2.1	1448.34	56.0	50.0	66.0	50.0			
	2.4	2496	2.6	1166.22	60.0	50.0	66.0	50.0			
	0.6	10248	0.8	1388.82	57.0	50.0	66.0	50.0	PKD 6390/32 90S6B / 90L6C	368	278
	0.8	8252	1.0	1118.29	60.0	50.0	66.0	50.0			
	1.0	6881	1.3	932.46	62.0	50.0	66.0	50.0			
	1.2	5414	1.6	733.69	63.0	50.0	66.0	50.0			
	1.6	4218	2.0	571.60	61.0	50.0	66.0	50.0			
	2.0	3332	2.6	451.55	61.0	50.0	66.0	50.0			
	0.6	10211	0.8	2217.63	-	-	-	-	PKD 6390/32 80M4C / 80M4D	364	278
	0.8	8429	1.0	1830.71	-	-	-	-			
	1.0	6395	1.3	1388.82	57.0	50.0	66.0	50.0			
	1.3	5149	1.6	1118.29	60.0	50.0	66.0	50.0			
	1.5	4293	1.9	932.46	62.0	50.0	66.0	50.0			
	1.9	3378	2.4	733.69	63.0	50.0	66.0	50.0			
	0.7	8270	0.8	3863.44	57.0	50.0	-	-	PKD 6390/32 80M2B / 80M2C	364	278
	0.9	6659	0.9	3110.88	57.0	50.0	-	-			
	1.3	4747	1.3	2217.63	57.0	50.0	-	-			
	1.5	3919	1.6	1830.71	57.0	50.0	-	-			
	2.0	2973	2.1	1388.82	57.0	50.0	66.0	50.0			
	2.5	2394	2.6	1118.29	60.0	50.0	66.0	50.0			
	1.3	5272	1.0	703.71	33.0	45.0	38.0	45.0	PKD 5490 90S6B / 90L6C	212	250-251
	1.6	4349	1.2	580.56	35.0	45.0	38.0	45.0			
	2.0	3439	1.5	459.05	36.0	45.0	38.0	45.0			
	2.6	2613	1.9	348.85	37.0	45.0	38.0	45.0			
	3.4	1983	2.5	264.64	24.0	45.0	38.0	45.0			
	3.9	1715	2.9	228.99	24.0	45.0	38.0	45.0			
	1.3	4998	1.0	1061.93	23.0	45.0	38.0	45.0	PKD 5490 80M4C / 80M4D	208	250-251
	1.5	4382	1.1	931.06	28.0	45.0	38.0	45.0			
	2.0	3312	1.4	703.71	33.0	45.0	38.0	45.0			
	2.4	2733	1.8	580.56	35.0	45.0	38.0	45.0			
	3.0	2161	2.2	459.05	36.0	45.0	38.0	45.0			
	4.0	1642	2.9	348.85	37.0	45.0	38.0	45.0			
	1.4	4488	0.8	2023.36	23.0	45.0	-	-	PKD 5490 80M2B / 80M2C	208	250-251
1.5	4158	0.9	1874.35	23.0	45.0	-	-				
2.0	3105	1.2	1399.82	23.0	45.0	38.0	45.0				
2.6	2356	1.5	1061.93	23.0	45.0	38.0	45.0				
3.0	2065	1.8	931.06	28.0	45.0	38.0	45.0				
4.0	1561	1.9	703.71	33.0	45.0	38.0	45.0				
4.8	1288	2.8	580.56	35.0	45.0	38.0	45.0				
3.1	2203	2.3	289.62	37.0	45.0	38.0	45.0	PKD 5390 90S6B / 90L6C	194	246-247	
3.6	1881	2.7	247.36	37.0	45.0	38.0	45.0				
2.2	3031	1.0	404.53	27.0	40.0	28.0	31.0	PKD 4490 90S6B / 90L6C	134	242-243	
2.6	2625	1.1	350.42	26.0	40.0	28.0	35.0				
3.2	2090	1.4	278.98	27.0	40.0	28.0	33.0				
4.4	1529	1.9	204.13	27.0	40.0	28.0	31.0				
5.2	1289	2.3	172.07	19.0	40.0	28.0	30.0				
2.2	3035	0.9	644.73	18.0	40.0	28.0	37.0	PKD 4490 80M4C / 80M4D	130	242-243	
2.5	2673	1.0	567.85	21.0	40.0	28.0	37.0				
4.0	1649	1.7	350.42	26.0	40.0	28.0	35.0				
5.0	1313	2.1	278.98	27.0	40.0	28.0	33.0				
6.9	961	2.9	204.13	27.0	40.0	28.0	31.0				

P_1 [kW]	n_2 [Min ⁻¹]	M_2 [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{RGR} [kN]	F_{AGR} [kN]	Tip / Type / Typ IE2 / IE3		
0.75	2.5	2471	0.9	1113.75	18.0	40.0	28.0	40.0	PKD 4490 80M2B / 80M2C	130	242-243
	3.2	1957	1.1	882.35	18.0	40.0	28.0	40.0			
	4.3	1430	1.5	644.73	18.0	40.0	28.0	37.0			
	4.9	1260	1.7	567.85	21.0	40.0	28.0	37.0			
	8.0	777	2.7	350.42	26.0	40.0	28.0	35.0			
	2.7	2507	1.2	329.57	28.0	40.0	28.0	31.0	PKD 4390 90S6B / 90L6C	119	238-239
	3.3	2082	1.4	273.80	28.0	40.0	28.0	30.0			
	3.8	1786	1.6	234.83	28.0	40.0	28.0	30.0			
	4.6	1484	2.0	195.09	28.0	40.0	28.0	29.0			
	5.4	1258	1.3	165.34	28.0	40.0	28.0	28.0			
	7.6	896	2.8	117.81	28.0	40.0	28.0	26.0			
	3.4	2006	0.8	267.79	14.0	15.0	15.0	23.0	PKD 3490 90S6B / 90L6C	80	234-235
	4.2	1612	1.0	215.12	15.0	15.0	15.0	22.0			
	5.4	1255	1.3	167.59	15.0	15.0	15.0	21.0			
	3.5	1880	0.8	399.39	8.0	15.0	15.0	25.0	PKD 3490 80M4C / 80M4D	76	234-235
	4.0	1661	0.9	353.00	1.0	15.0	14.0	20.0			
	5.2	1260	1.2	267.79	14.0	15.0	15.0	23.0			
	6.5	1013	1.5	215.12	15.0	15.0	15.0	22.0			
	8.4	789	2.0	167.59	15.0	15.0	15.0	21.0			
	7.0	886	1.3	399.39	8.0	15.0	15.0	23.0	PKD 3490 80M2B / 80M2C	76	234-235
	7.9	783	1.5	353.00	1.0	15.0	15.0	22.0			
	10.5	594	2.0	267.79	14.0	15.0	12.0	17.0			
	13.0	477	2.5	215.12	15.0	15.0	12.0	17.0			
	3.6	1901	0.9	250.01	11.0	15.0	15.0	19.0			
	3.8	1781	0.9	234.13	11.0	15.0	15.0	19.0			
	4.6	1504	1.1	197.69	13.0	15.0	15.0	18.0			
	4.8	1432	1.1	188.22	14.0	15.0	15.0	16.0			
	5.7	1209	1.3	158.92	14.0	15.0	15.0	16.0			
	6.5	1061	1.5	139.49	14.0	15.0	15.0	16.0			
	7.6	896	1.8	117.78	14.0	15.0	15.0	15.0			
	8.1	844	1.9	110.94	14.0	15.0	15.0	17.0			
	9.6	712	2.3	93.67	12.0	15.0	15.0	16.0			
	10.7	640	2.5	84.16	12.0	15.0	15.0	16.0			
	11.9	577	2.8	75.92	12.0	15.0	15.0	15.0			
	4.7	1424	1.1	296.10	8.0	15.0	15.0	19.0	PKD 3390 80M4C / 80M4D	68	230-231
	5.6	1202	1.3	250.01	11.0	15.0	15.0	19.0			
	6.0	1126	1.4	234.13	11.0	15.0	15.0	19.0			
	7.1	951	1.6	197.69	13.0	15.0	15.0	18.0			
	12.6	534	2.9	110.94	14.0	15.0	15.0	17.0			
	9.5	681	1.7	296.10	8.0	15.0	15.0	19.0	PKD 3390 80M2B / 80M2C	68	230-231
	11.2	575	2.0	250.01	11.0	15.0	15.0	19.0			
	12.0	538	2.2	234.13	11.0	15.0	15.0	19.0			
	14.2	454	2.6	197.69	13.0	15.0	15.0	18.0			
	9.1	752	1.2	98.92	8.0	12.0	12.0	16.0	PKD 2390 90S6B / 90L6C	52	222-223
	11.4	600	1.5	78.85	8.0	12.0	12.0	16.0			
	13.5	506	1.8	66.47	9.0	12.0	12.0	15.0			
	15.5	443	2.0	58.24	3.0	12.0	12.0	15.0			
	17.3	396	2.3	52.11	3.0	12.0	12.0	14.0			
18.4	373	2.4	48.99	3.0	12.0	12.0	14.0				
20.1	341	2.7	44.80	3.0	12.0	12.0	14.0				
22.7	302	3.0	39.70	3.0	12.0	12.0	13.0				
6.4	1055	0.8	219.34	0.2	12.0	4.0	18.0	PKD 2390 80M4C / 80M4D			
7.6	887	1.0	184.51	0.4	12.0	8.0	18.0				
8.2	817	1.1	169.88	0.4	12.0	9.0	18.0				
10.2	662	1.3	137.63	5.0	12.0	10.0	17.0				
12.1	557	1.5	115.77	7.0	12.0	11.0	17.0				
14.2	476	1.8	98.92	8.0	12.0	12.0	16.0				
16.4	410	2.1	85.23	8.0	12.0	12.0	16.0				
17.8	379	2.3	78.85	8.0	12.0	12.0	16.0				
21.1	320	2.7	66.47	9.0	12.0	12.0	15.0				



P_1 [kW]	n_2 [Min ⁻¹]	M_2 [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{RGR} [kN]	F_{AGR} [kN]	Tip / Type / Typ IE2 / IE3		
0.75	12.8	504	1.3	219.34	2.0	12.0	4.0	18.0	PKD 2390 80M2B / 80M2C	48	222-223
	15.2	424	1.5	184.51	4.0	12.0	8.0	18.0			
	16.5	391	1.7	169.88	4.0	12.0	9.0	18.0			
	20.3	316	2.1	137.63	5.0	12.0	10.0	17.0			
	24.2	266	2.5	115.77	7.0	12.0	11.0	17.0			
	28.3	227	2.9	98.92	8.0	12.0	12.0	16.0			
	11.1	619	1.0	81.40	9.0	20.0	9.0	20.0	PKD G 1390 90S6B / 90L6C	45	214-215
	12.5	547	1.2	71.94	9.0	20.0	9.0	20.0			
	14.0	487	1.3	64.06	9.0	20.0	9.0	20.0			
	17.2	399	1.6	52.42	9.0	20.0	9.0	20.0			
	19.5	351	1.8	46.16	9.0	20.0	9.0	20.0			
	22.0	311	2.0	40.87	6.0	20.0	9.0	20.0			
	25.8	265	2.4	34.86	6.0	20.0	9.0	20.0			
	29.6	232	2.7	30.44	6.0	20.0	9.0	20.0			
	9.3	721	0.8	149.85	5.0	20.0	9.0	20.0	PKD G 1390 80M4C / 80M4D	41	214-215
	9.8	685	0.9	142.45	6.0	20.0	9.0	20.0			
	12.0	561	1.1	116.55	6.0	20.0	9.0	20.0			
	15.2	442	1.1	91.88	8.0	20.0	9.0	20.0			
	17.2	391	1.5	81.40	9.0	20.0	9.0	20.0			
	19.5	346	1.7	71.94	9.0	20.0	9.0	20.0			
	21.9	308	2.0	64.06	9.0	20.0	9.0	20.0			
	26.7	252	2.4	52.42	9.0	20.0	9.0	20.0			
	30.3	222	2.7	46.16	9.0	20.0	9.0	20.0			
	15.3	421	1.1	183.15	5.0	20.0	9.0	20.0	PKD G 1390 80M2B / 80M2C	41	214-215
	18.7	344	1.3	149.85	5.0	20.0	9.0	20.0			
	19.7	327	1.4	142.45	6.0	20.0	9.0	20.0			
	24.0	268	1.7	116.55	6.0	20.0	9.0	20.0			
	30.5	211	1.8	91.88	8.0	20.0	9.0	20.0			
	34.4	187	2.4	81.40	9.0	20.0	9.0	20.0			
	38.9	165	2.8	71.94	9.0	20.0	9.0	20.0			
	14.3	477	0.9	62.74	6.0	20.0	9.0	20.0	PKD 1390 90S6B / 90L6C	44	206-207
	16.3	420	1.0	55.26	6.0	20.0	9.0	20.0			
	18.4	372	1.1	48.92	7.0	20.0	9.0	20.0			
	21.6	317	1.3	41.72	7.0	20.0	9.0	20.0			
	25.8	265	1.6	34.86	5.0	20.0	9.0	20.0			
	28.6	239	1.8	31.48	5.0	20.0	9.0	20.0			
	32.5	211	2.0	27.72	5.0	20.0	9.0	20.0			
	36.7	187	2.2	24.55	5.0	20.0	9.0	20.0			
	43.0	159	2.6	20.93	5.0	20.0	9.0	19.0			
	51.5	133	3.0	17.49	5.0	20.0	9.0	18.0			
	73.3	93	2.5	12.27	5.0	20.0	9.0	17.0			
	82.9	83	2.5	10.86	5.0	20.0	9.0	16.0			
	97.2	70	2.9	9.26	5.0	20.0	9.0	15.0			
	12.7	529	0.8	109.98	5.0	20.0	8.0	20.0			
	14.4	469	0.9	97.43	3.0	20.0	8.0	20.0			
	16.3	414	1.0	86.12	4.0	20.0	8.0	20.0			
	18.3	369	1.1	76.68	5.0	20.0	9.0	20.0			
22.3	302	1.3	62.74	6.0	20.0	9.0	20.0				
25.3	266	1.5	55.26	6.0	20.0	9.0	20.0				
28.6	235	1.7	48.92	7.0	20.0	9.0	20.0				
33.6	201	2.0	41.72	7.0	20.0	9.0	20.0				
25.5	253	1.2	109.98	5.0	20.0	8.0	20.0	PKD 1390 80M2B / 80M2C	40	206-207	
28.7	224	1.4	97.43	3.0	20.0	8.0	20.0				
32.5	198	1.5	86.12	4.0	20.0	8.0	20.0				
36.5	176	1.7	76.68	5.0	20.0	9.0	20.0				
44.6	144	2.1	62.74	6.0	20.0	9.0	20.0				
50.7	127	2.4	55.26	6.0	20.0	9.0	20.0				
57.2	112	2.7	48.92	7.0	20.0	9.0	20.0				
17.2	405	1.5	52.42	7.8	12.0	-	-	PKD H 5290 90S6B / 90L6C	53	202-203	
19.6	354	1.5	45.86	7.9	12.0	-	-				
22.1	315	1.5	40.77	8.0	12.0	-	-				
24.6	283	2.5	36.59	7.9	12.0	-	-				
28.1	247	2.7	32.02	7.9	12.0	-	-				
31.6	220	2.9	28.46	7.9	12.0	-	-				



P₁ [kW]	n₂ [Min ⁻¹]	M₂ [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{R GR} [kN]	F_{A GR} [kN]	Tip / Type / Typ IE2 / IE3	Kg	mm
0.75	21.9	314	1.5	63.96	7.5	12.0	-	-	PKD H 5290 80M4C / 80M4D	49	202-203
	25.0	275	1.5	55.96	7.7	12.0	-	-			
	26.7	257	2.2	52.42	7.8	12.0	-	-			
	30.5	225	2.2	45.86	7.9	12.0	-	-			
	34.3	200	2.2	40.77	8.0	12.0	-	-			
	43.8	152	2.3	63.96	7.5	12.0	-	-	PKD H 5290 80M2B / 80M2C	49	202-203
	50.0	133	2.3	55.96	7.7	12.0	-	-			
	18.7	371	1.1	48.01	5.4	12.0	-	-	PKD F 4290 90S6B / 90L6C	41	198-199
	21.4	324	1.1	42.01	5.6	12.0	-	-			
	24.1	288	1.2	37.34	5.7	12.0	-	-			
	26.4	264	1.5	34.15	5.3	12.0	-	-			
	30.1	231	1.5	29.88	5.5	12.0	-	-			
	33.9	205	1.7	26.56	5.7	12.0	-	-			
	23.6	291	1.3	59.20	4.9	12.0	-	-	PKD F 4290 80M4C / 80M4D	37	198-199
	27.0	254	1.4	51.80	5.3	12.0	-	-			
	29.2	236	1.6	48.01	5.4	12.0	-	-			
	33.3	206	1.6	42.01	5.6	12.0	-	-			
	37.5	183	1.8	37.34	5.7	12.0	-	-			
	41.0	168	2.3	34.15	5.3	12.0	-	-			
	46.9	147	2.3	29.88	5.5	12.0	-	-			
	52.7	130	2.5	26.56	5.7	12.0	-	-			
	47.3	141	2.0	59.20	4.9	12.0	-	-	PKD F 4290 80M2B / 80M2C	37	198-199
	54.1	123	2.1	51.80	5.3	12.0	-	-			
	58.3	114	2.5	48.01	5.4	12.0	-	-			
	66.7	100	2.6	42.01	5.6	12.0	-	-			
	75.0	89	2.8	37.34	5.7	12.0	-	-			
	28.8	241	0.8	31.27	4.1	9.0	-	-			
	32.9	211	1.1	27.36	4.2	9.0	-	-			
	37.0	188	1.2	24.32	4.4	9.0	-	-			
	41.0	169	1.2	21.94	4.1	9.0	-	-			
	46.9	148	1.6	19.19	4.2	9.0	-	-			
	52.8	132	1.8	17.06	4.3	9.0	-	-			
	61.4	113	1.8	14.66	4.6	9.0	-	-			
	69.3	100	2.0	12.99	3.8	9.0	-	-			
	79.2	88	2.3	11.37	3.8	9.0	-	-			
	83.3	83	2.3	10.81	3.8	9.0	-	-			
	95.0	73	2.5	9.47	3.8	9.0	-	-			
	108.6	64	2.9	8.29	3.8	9.0	-	-			
	36.3	190	1.0	38.59	3.7	9.0	-	-	PKD C 1290 80M4C / 80M4D	28	194-195
	41.5	166	1.1	33.76	4.0	9.0	-	-			
	44.8	154	1.2	31.27	4.1	9.0	-	-			
	51.2	134	1.7	27.36	4.2	9.0	-	-			
	57.6	119	1.8	24.32	4.4	9.0	-	-			
	63.8	108	1.8	21.94	4.1	9.0	-	-			
	73.0	94	2.4	19.19	4.2	9.0	-	-			
	82.1	84	2.7	17.06	4.3	9.0	-	-			
	95.5	72	2.6	14.66	4.6	9.0	-	-			
	56.3	118	1.1	49.69	3.7	9.0	-	-	PKD C 1290 80M2B / 80M2C	28	194-195
64.4	104	1.1	43.48	3.7	9.0	-	-				
72.6	92	1.6	38.59	3.7	9.0	-	-				
82.9	80	1.7	33.76	4.0	9.0	-	-				
89.5	74	1.9	31.27	4.1	9.0	-	-				
102.3	65	2.7	27.36	4.2	9.0	-	-				
115.1	58	2.8	24.32	4.4	9.0	-	-				
127.6	52	2.8	21.94	4.1	9.0	-	-				
57.6	121	1.0	15.62	3.0	5.6	-	-	PKD B 0290 90S6B / 90L6C	25	190-191	
66.8	104	1.2	13.48	3.1	5.6	-	-				
76.3	91	1.3	11.79	3.2	5.6	-	-				
87.0	80	1.4	10.35	3.3	5.6	-	-				
99.3	70	1.6	9.06	3.3	5.6	-	-				
112.5	62	1.7	8.00	3.3	5.6	-	-				
127.7	54	1.8	7.05	3.3	5.6	-	-				
149.0	47	2.0	6.04	2.5	5.4	-	-				
168.5	41	2.2	5.34	2.9	5.6	-	-				
188.7	37	2.3	4.77	2.9	5.6	-	-				
219.0	32	2.5	4.11	2.9	5.6	-	-				



P₁ [kW]	n₂ [Min ⁻¹]	M₂ [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{R GR} [kN]	F_{A GR} [kN]	Tip / Type / Typ IE2 / IE3		
0.75	43.4	158	0.8	32.24	2.5	5.6	-	-	PKD B 0290 80M4C / 80M4D	21	190-191
	49.6	139	0.9	28.21	2.0	5.6	-	-			
	53.9	128	0.9	25.99	2.2	5.6	-	-			
	61.6	112	1.1	22.74	2.5	5.6	-	-			
	74.4	92	0.9	18.81	2.9	5.6	-	-			
	89.6	77	1.6	15.62	3.0	5.6	-	-			
	103.9	66	1.8	13.48	3.1	5.6	-	-			
	118.7	58	2.0	11.79	3.2	5.6	-	-			
	135.3	51	2.2	10.35	3.3	5.6	-	-			
	154.5	44	2.4	9.06	3.3	5.6	-	-			
	175.0	39	2.5	8.00	3.3	5.6	-	-			
	198.6	35	2.7	7.05	3.3	5.6	-	-			
	231.8	30	3.0	6.04	2.5	5.4	-	-			
	67.9	98	0.9	41.23	2.5	5.6	-	-	PKD B 0290 80M2B / 80M2C	21	190-191
	77.6	86	0.9	36.08	2.5	5.6	-	-			
	86.8	77	1.2	32.24	2.5	5.6	-	-			
	99.3	67	1.4	28.21	2.0	5.6	-	-			
	107.7	62	1.5	25.99	2.2	5.6	-	-			
	123.1	54	1.7	22.74	2.5	5.6	-	-			
	148.9	45	1.4	18.81	2.9	5.6	-	-			
	179.3	37	2.5	15.62	3.0	5.6	-	-			
	207.7	32	2.8	13.48	3.1	5.6	-	-			
	60.2	114	0.8	23.26	2.8	5.1	-	-	PKD A 0290 80M4C / 80M4D	17	186-187
	68.8	100	0.9	20.35	2.6	5.1	-	-			
	103.2	67	1.1	13.57	3.0	5.1	-	-			
	126.7	54	1.7	11.05	3.1	5.1	-	-			
	144.8	47	1.9	9.67	3.1	5.1	-	-			
	155.7	44	2.0	8.99	3.2	5.1	-	-			
	178.1	39	2.3	7.86	3.2	5.1	-	-			
	217.1	32	2.7	6.45	3.1	4.8	-	-			
	242.2	28	2.8	5.78	3.0	4.6	-	-			
	106.2	63	1.1	26.36	2.8	5.1	-	-	PKD A 0290 80M2B / 80M2C	17	186-187
	120.4	55	1.2	23.26	2.8	5.1	-	-			
	137.6	48	1.4	20.35	2.6	5.1	-	-			
	159.3	42	1.1	17.58	3.0	5.1	-	-			
	206.3	32	1.8	13.57	3.0	5.1	-	-			
253.4	26	2.6	11.05	3.1	5.1	-	-				
289.6	23	3.0	9.67	3.1	5.1	-	-				
1.10	0.2	59438	0.9	5575.65	-	-	-	-			
	0.2	47347	1.1	4441.42	-	-	-	-			
	0.2	39363	1.3	3692.48	-	-	-	-			
	0.3	34221	1.5	3210.12	-	-	-	-			
	0.3	28560	1.8	2679.06	-	-	-	-			
	0.4	24692	2.1	2316.27	-	-	-	-			
	0.4	21876	2.4	2052.10	-	-	-	-			
	0.5	18914	2.8	1774.21	-	-	-	-			
	0.1	64138	0.8	9713.32	-	-	-	-	PKD G 9390/63 90L4B / 90L4C	1788	282
	0.2	54849	0.9	8306.57	-	-	-	-			
	0.2	51784	1.0	7842.34	-	-	-	-			
	0.2	44284	1.1	6706.55	-	-	-	-			
	0.3	36817	1.4	5575.65	-	-	-	-			
	0.3	29327	1.7	4441.42	-	-	-	-			
	0.4	24382	2.1	3692.48	-	-	-	-			
	0.4	21197	2.4	3210.12	-	-	-	-			
	0.5	17690	2.8	2679.06	-	-	-	-			
	0.3	31531	0.9	2913.46	152.0	70.0	-	-	PKD 9390/52 90L6C / 90L6D	1490	280
	0.4	22882	1.5	2114.30	152.0	70.0	-	-			
	0.5	19428	1.7	1795.13	152.0	70.0	-	-			
	0.6	15418	2.2	1424.59	152.0	70.0	160.0	70.0			
	0.8	12114	2.8	1119.32	152.0	70.0	160.0	70.0			
	0.3	33316	1.0	4933.39	-	-	-	-	PKD 9390/52 90L4B / 90L4C	1490	280
	0.4	24010	1.1	3555.41	-	-	-	-			
	0.5	19675	1.3	2913.46	-	-	-	-			
	0.7	14278	2.2	2114.30	-	-	-	-			
	0.8	12123	2.6	1795.13	-	-	-	-			



P_1 [kW]	n_2 [Min ⁻¹]	M_2 [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{RGR} [kN]	F_{AGR} [kN]	Tip / Type / Typ IE2 / IE3	 Kg	 mm
1.10	0.4	22881	0.9	2114.13	116.0	65.0	-	-	PKD G 8390/52 90L6C / 90L6D	920	280
	0.5	19335	1.1	1786.51	116.0	65.0	-	-			
	0.6	15836	1.3	1463.24	116.0	65.0	120.0	65.0			
	0.7	13028	1.6	1203.73	118.0	65.0	120.0	65.0			
	1.0	9846	2.1	909.80	120.0	65.0	120.0	65.0			
	1.3	7736	2.7	714.84	120.0	65.0	120.0	65.0			
	0.5	20387	0.9	3018.87	-	-	-	-	PKD G 8390/52 90L4B / 90L4C	920	280
	0.7	14277	1.3	2114.13	-	-	-	-			
	0.8	12065	1.5	1786.51	-	-	-	-			
	1.0	9882	1.8	1463.24	116.0	65.0	120.0	65.0			
	1.2	8129	2.2	1203.73	118.0	65.0	120.0	65.0			
	1.5	6144	2.9	909.80	120.0	65.0	120.0	65.0			
	0.6	15882	0.9	1467.49	87.0	60.0	95.0	60.0	PKD 8390/42 90L6C / 90L6D	645	280
	0.9	11017	1.2	1017.96	93.0	60.0	95.0	60.0			
	1.1	9149	1.5	845.40	94.0	60.0	95.0	60.0			
	1.3	7630	1.8	705.03	95.0	60.0	95.0	60.0			
	1.5	6525	2.1	602.92	95.0	60.0	95.0	60.0			
	2.0	4809	2.8	444.35	95.0	60.0	95.0	60.0			
	0.7	13823	0.9	2046.84	-	-	-	-	PKD 8390/42 90L4B / 90L4C	645	280
	0.8	12237	1.1	1812.03	-	-	-	-			
	1.0	9910	1.3	1467.49	87.0	60.0	95.0	60.0			
	1.4	6875	1.9	1017.96	93.0	60.0	95.0	60.0			
	1.7	5709	2.3	845.40	94.0	60.0	95.0	60.0			
	2.0	4761	2.7	705.03	95.0	60.0	95.0	60.0			
	0.9	10524	0.8	972.42	56.0	50.0	66.0	50.0	PKD 7390/32 90L6C / 90L6D	368	278
	1.2	8281	1.1	765.14	60.0	50.0	66.0	50.0			
	1.5	6451	1.4	596.10	62.0	50.0	66.0	50.0			
	1.9	5097	1.8	470.91	64.0	50.0	66.0	50.0			
	2.3	4164	2.1	384.74	56.0	50.0	66.0	50.0			
	2.9	3356	2.7	310.09	56.0	50.0	66.0	50.0			
	1.0	9781	0.9	1448.34	40.0	50.0	66.0	50.0	PKD 7390/32 90L4B / 90L4C	368	278
	1.2	7876	1.1	1166.22	51.0	50.0	66.0	50.0			
	1.4	6567	1.3	972.42	56.0	50.0	66.0	50.0			
	1.8	5167	1.6	765.14	60.0	50.0	66.0	50.0			
	2.3	4026	2.1	596.10	62.0	50.0	66.0	50.0			
	3.0	3180	2.7	470.91	64.0	50.0	66.0	50.0			
	1.2	7261	0.9	2312.67	40.0	50.0	-	-	PKD 7390/32 80M2C / 80M2D	364	278
	1.5	5994	1.1	1909.17	40.0	50.0	-	-			
	1.9	4547	1.4	1448.34	40.0	50.0	66.0	50.0			
	2.4	3661	1.8	1166.22	51.0	50.0	66.0	50.0			
	2.9	3053	2.1	972.42	56.0	50.0	66.0	50.0			
	3.7	2402	2.7	765.14	60.0	50.0	66.0	50.0			
	1.0	10092	0.9	932.46	57.0	50.0	66.0	50.0	PKD 6390/32 90L6C / 90L6D	368	278
	1.2	7940	1.1	733.69	61.0	50.0	66.0	50.0			
	1.6	6186	1.4	571.60	62.0	50.0	66.0	50.0			
2.0	4887	1.8	451.55	64.0	50.0	66.0	50.0				
2.4	3993	2.2	368.93	57.0	50.0	66.0	50.0				
3.0	3218	2.7	297.35	57.0	50.0	66.0	50.0				
1.0	9379	0.9	1388.82	43.0	50.0	66.0	50.0	PKD 6390/32 90L4B / 90L4C	368	278	
1.3	7552	1.1	1118.29	53.0	50.0	66.0	50.0				
1.5	6297	1.3	932.46	57.0	50.0	66.0	50.0				
1.9	4955	1.7	733.69	61.0	50.0	66.0	50.0				
2.4	3860	2.1	571.60	62.0	50.0	66.0	50.0				
3.1	3049	2.7	451.55	64.0	50.0	66.0	50.0				
1.3	6962	0.9	2217.63	43.0	50.0	-	-	PKD 6390/32 80M2C / 80M2D	364	278	
1.5	5748	1.1	1830.71	43.0	50.0	-	-				
2.0	4360	1.4	1388.82	43.0	50.0	66.0	50.0				
2.5	3511	1.8	1118.29	53.0	50.0	66.0	50.0				
3.0	2928	2.1	932.46	57.0	50.0	66.0	50.0				
3.8	2303	2.7	733.69	61.0	50.0	66.0	50.0				
1.6	6379	0.8	580.56	30.0	45.0	38.0	45.0	PKD 5490 90L6C / 90L6D	212	250-251	
2.0	5044	1.0	459.05	33.0	45.0	38.0	45.0				
2.6	3833	1.3	348.85	36.0	45.0	38.0	45.0				
3.4	2908	1.7	264.64	37.0	45.0	38.0	45.0				
3.9	2516	2.0	228.99	38.0	45.0	38.0	45.0				
5.5	1813	2.8	165.02	23.0	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_{RGR} [kN]	F_{AGR} [kN]	Tip / Type / Typ IE2 / IE3		
1.10	2.0	4858	1.0	703.71	25.0	45.0	38.0	45.0	PKD 5490 90L4B / 90L4C	212	250-251
	2.4	4008	1.2	580.56	30.0	45.0	38.0	45.0			
	3.0	3169	1.5	459.05	33.0	45.0	38.0	45.0			
	4.0	2408	2.0	348.85	36.0	45.0	38.0	45.0			
	5.3	1827	2.6	264.64	37.0	45.0	38.0	45.0			
	6.1	1581	3.0	228.99	38.0	45.0	38.0	45.0			
	2.0	4554	0.8	1399.82	25.0	45.0	38.0	45.0	PKD 5490 80M2C / 80M2D	208	250-251
	2.6	3455	1.1	1061.93	25.0	45.0	38.0	45.0			
	3.0	3029	1.2	931.06	25.0	45.0	38.0	45.0			
	4.0	2290	1.3	703.71	25.0	45.0	38.0	45.0			
	4.8	1889	1.9	580.56	30.0	45.0	38.0	45.0			
	6.1	1494	2.4	459.05	33.0	45.0	38.0	45.0			
	3.1	3231	1.6	289.62	37.0	45.0	38.0	45.0	PKD 5390 90L6C / 90L6D	194	246-247
	3.6	2759	1.8	247.36	37.0	45.0	38.0	45.0			
	6.2	1621	2.3	145.30	37.0	45.0	38.0	43.0			
	4.8	2043	2.3	289.62	37.0	45.0	38.0	45.0	PKD 5390 90L4B / 90L4C	194	246-247
	5.7	1745	2.8	247.36	37.0	45.0	38.0	45.0			
	2.6	3850	0.8	350.42	23.0	40.0	28.0	31.0	PKD 4490 90L6C / 90L6D	134	242-243
	3.2	3065	1.0	278.98	27.0	40.0	28.0	33.0			
	4.4	2243	1.3	204.13	27.0	40.0	28.0	31.0			
	5.2	1891	1.6	172.07	17.0	40.0	28.0	30.0			
	3.5	2793	1.0	404.53	20.0	40.0	28.0	31.0	PKD 4490 90L4B / 90L4C	134	242-243
	4.0	2419	1.2	350.42	23.0	40.0	28.0	31.0			
	5.0	1926	1.5	278.98	27.0	40.0	28.0	33.0			
	6.9	1409	2.0	204.13	27.0	40.0	28.0	31.0			
	8.1	1188	2.4	172.07	17.0	40.0	28.0	30.0			
	4.3	2098	1.0	644.73	20.0	40.0	28.0	37.0	PKD 4490 80M2C / 80M2D	130	242-243
	4.9	1847	1.2	567.85	20.0	40.0	28.0	37.0			
	8.0	1140	1.9	350.42	23.0	40.0	28.0	31.0			
	10.0	908	2.3	278.98	27.0	40.0	28.0	33.0			
	2.7	3676	0.8	329.57	23.0	40.0	28.0	31.0	PKD 4390 90L6C / 90L6D	119	238-239
	3.3	3054	1.0	273.80	25.0	40.0	28.0	30.0			
	3.8	2619	1.1	234.83	26.0	40.0	28.0	30.0			
	4.6	2176	1.4	195.09	27.0	40.0	28.0	29.0			
	5.4	1844	0.9	165.34	27.0	40.0	28.0	28.0			
	7.6	1314	1.9	117.81	28.0	40.0	28.0	26.0			
	9.4	1066	2.8	95.57	28.0	40.0	28.0	24.0			
	10.4	965	3.0	86.50	28.0	40.0	28.0	24.0			
	4.2	2325	1.2	329.57	23.0	40.0	28.0	31.0			
	5.1	1931	1.4	273.80	25.0	40.0	28.0	30.0			
	6.0	1656	1.7	234.83	26.0	40.0	28.0	30.0			
	7.2	1376	2.0	195.09	27.0	40.0	28.0	29.0			
	8.5	1166	1.3	165.34	27.0	40.0	28.0	28.0			
	11.9	831	2.9	117.81	28.0	40.0	28.0	26.0			
	5.4	1841	0.9	167.59	15.0	15.0	-	-	PKD 3490 90L6C / 90L6D	80	234-235
	5.2	1849	0.8	267.79	1.0	15.0	12.0	17.0	PKD 3490 90L4B / 90L4C	80	234-235
	6.5	1485	1.0	215.12	15.0	15.0	-	-			
	8.4	1157	1.3	167.59	15.0	15.0	-	-			
7.0	1299	0.9	399.39	1.0	15.0	15.0	23.0	PKD 3490 80M2C / 80M2D	76	234-235	
7.9	1148	1.0	353.00	1.0	15.0	14.0	20.0				
10.5	871	1.4	267.79	1.0	15.0	12.0	17.0				
13.0	700	1.7	215.12	15.0	15.0	-	-				
16.7	545	2.2	167.59	15.0	15.0	-	-				
4.8	2100	0.8	188.22	9.0	15.0	15.0	16.0	PKD 3390 90L6C / 90L6D	72	230-231	
5.7	1773	0.9	158.92	11.0	15.0	15.0	16.0				
6.5	1556	1.0	139.49	12.0	15.0	15.0	16.0				
7.6	1314	1.2	117.78	13.0	15.0	15.0	15.0				
8.1	1238	1.3	110.94	14.0	15.0	15.0	15.0				
9.6	1045	1.6	93.67	14.0	15.0	15.0	15.0				
10.7	939	1.7	84.16	14.0	15.0	15.0	15.0				
11.9	847	1.9	75.92	13.0	15.0	15.0	15.0				
14.0	715	2.3	64.11	8.0	15.0	15.0	14.0				
15.2	660	2.5	59.15	8.0	15.0	15.0	14.0				
18.0	557	2.9	49.94	8.0	15.0	15.0	13.0				



P_1 [kW]	n_2 [Min ⁻¹]	M_2 [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{RGR} [kN]	F_{AGR} [kN]	Tip / Type / Typ IE2 / IE3	 Kg	 mm
1.10	5.6	1763	0.9	250.01	1.0	15.0	14.0	16.0	PKD 3390 90L4B / 90L4C	72	230-231
	6.0	1651	0.9	234.13	4.0	15.0	15.0	16.0			
	7.1	1394	1.1	197.69	9.0	15.0	15.0	16.0			
	7.4	1328	1.2	188.22	9.0	15.0	15.0	16.0			
	8.8	1121	1.4	158.92	11.0	15.0	15.0	16.0			
	10.0	984	1.6	139.49	12.0	15.0	15.0	16.0			
	11.9	831	1.9	117.78	13.0	15.0	15.0	15.0			
	12.6	782	2.0	110.94	14.0	15.0	15.0	15.0			
	14.9	661	2.3	93.67	14.0	15.0	15.0	15.0			
	16.6	594	2.6	84.16	14.0	15.0	15.0	15.0			
	18.4	535	2.9	75.92	13.0	15.0	15.0	15.0			
	9.5	998	1.2	296.10	1.0	15.0	14.0	16.0			
	11.2	843	1.4	250.01	1.0	15.0	14.0	16.0			
	12.0	789	1.5	234.13	4.0	15.0	15.0	16.0			
	14.2	667	1.8	197.69	9.0	15.0	15.0	16.0			
	9.1	1103	0.8	98.92	5.0	12.0	10.0	15.0	PKD 2390 90L6C / 90L6D	52	222-223
	11.4	880	1.0	78.85	7.0	12.0	11.0	15.0			
	13.5	741	1.2	66.47	8.0	12.0	12.0	14.0			
	15.5	650	1.4	58.24	8.0	12.0	12.0	14.0			
	17.3	581	1.6	52.11	8.0	12.0	12.0	14.0			
	18.4	546	1.7	48.99	9.0	12.0	12.0	13.0			
	20.1	500	1.8	44.80	9.0	12.0	12.0	13.0			
	22.7	443	2.0	39.70	2.0	12.0	12.0	13.0			
	27.0	371	2.4	33.28	2.0	12.0	12.0	12.0			
	28.6	351	2.5	31.43	2.0	12.0	12.0	12.0			
	30.8	326	2.8	29.22	2.0	12.0	12.0	12.0			
	14.2	698	1.2	98.92	5.0	12.0	10.0	15.0			
	17.8	556	1.5	78.85	7.0	12.0	11.0	15.0			
	21.1	469	1.8	66.47	8.0	12.0	12.0	14.0			
	24.0	411	2.1	58.24	8.0	12.0	12.0	14.0			
	26.9	368	2.3	52.11	8.0	12.0	12.0	14.0			
	28.6	346	2.5	48.99	9.0	12.0	12.0	13.0			
	31.3	316	2.7	44.80	9.0	12.0	12.0	13.0			
	12.8	739	0.9	219.34	5.0	12.0	4.0	18.0	PKD 2390 80M2C / 80M2D	48	222-223
	15.2	622	1.1	184.51	5.0	12.0	8.0	18.0			
	16.5	573	1.1	169.88	5.0	12.0	9.0	18.0			
	20.3	464	1.4	137.63	5.0	12.0	10.0	17.0			
	24.2	390	1.7	115.77	5.0	12.0	11.0	17.0			
	28.3	334	2.0	98.92	5.0	12.0	10.0	15.0			
	32.9	287	2.3	85.23	7.0	12.0	12.0	16.0			
	35.5	266	2.5	78.85	7.0	12.0	11.0	15.0			
	42.1	224	2.9	66.47	8.0	12.0	12.0	14.0			
	12.5	802	0.8	71.94	8.0	20.0	9.0	20.0			
	14.0	715	0.9	64.06	8.0	20.0	9.0	20.0			
	17.2	585	1.1	52.42	9.0	20.0	9.0	20.0			
	19.5	515	1.2	46.16	9.0	20.0	9.0	20.0			
	22.0	456	1.4	40.87	9.0	20.0	9.0	20.0			
	25.8	389	1.6	34.86	9.0	20.0	9.0	20.0			
29.6	340	1.9	30.44	9.0	20.0	9.0	20.0				
34.2	293	2.1	26.30	5.0	20.0	9.0	19.0				
38.9	258	2.1	23.16	5.0	20.0	9.0	19.0				
43.9	229	2.7	20.51	5.0	20.0	9.0	18.0				
51.5	195	2.9	17.49	5.0	20.0	9.0	16.0				
17.2	574	1.0	81.40	7.0	20.0	9.0	20.0	PKD G 1390 90L4B / 90L4C	45	214-215	
19.5	507	1.2	71.94	8.0	20.0	9.0	20.0				
21.9	452	1.4	64.06	8.0	20.0	9.0	20.0				
26.7	370	1.6	52.42	9.0	20.0	9.0	20.0				
30.3	326	1.9	46.16	9.0	20.0	9.0	20.0				
34.3	288	2.1	40.87	9.0	20.0	9.0	20.0				
40.2	246	2.4	34.86	9.0	20.0	9.0	20.0				
46.0	215	2.8	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 / Typ IE2 / IE3					
1.10	15.3	617	0.8	183.15	7.0	20.0	-	-	PKD G 1390 80M2C / 80M2D	41	214-215			
	18.7	505	0.9	149.85	7.0	20.0	9.0	20.0						
	19.7	480	1.0	142.45	7.0	20.0	9.0	20.0						
	24.0	393	1.2	116.55	7.0	20.0	9.0	20.0						
	30.5	310	1.2	91.88	7.0	20.0	9.0	20.0						
	34.4	274	1.7	81.40	7.0	20.0	9.0	20.0						
	38.9	243	1.9	71.94	8.0	20.0	9.0	20.0						
	43.7	216	2.1	64.06	8.0	20.0	9.0	20.0						
	53.4	177	2.6	52.42	9.0	20.0	9.0	20.0						
	60.7	156	3.0	46.16	9.0	20.0	9.0	20.0						
	18.4	546	0.8	48.92	5.0	20.0	9.0	20.0				PKD 1390 90L6C / 90L6D	44	206-207
	21.6	465	0.9	41.72	6.0	20.0	9.0	20.0						
	25.8	389	1.1	34.86	6.0	20.0	9.0	20.0						
	28.6	351	1.2	31.48	7.0	20.0	9.0	20.0						
	32.5	309	1.4	27.72	7.0	20.0	9.0	20.0						
	36.7	274	1.5	24.55	5.0	20.0	9.0	19.0						
	43.0	233	1.8	20.93	5.0	20.0	9.0	19.0						
	51.5	195	2.0	17.49	5.0	20.0	9.0	18.0						
	58.9	170	2.3	15.27	5.0	20.0	9.0	17.0						
	73.3	137	1.7	12.27	5.0	20.0	9.0	16.0						
	82.9	121	1.7	10.86	5.0	20.0	9.0	16.0						
	97.2	103	2.0	9.26	5.0	20.0	9.0	15.0						
	111.2	90	2.1	8.09	5.0	20.0	9.0	15.0						
	22.3	443	0.9	62.74	4.0	20.0	8.0	20.0	PKD 1390 90L4B / 90L4C	44	206-207			
	25.3	390	1.0	55.26	5.0	20.0	9.0	20.0						
	28.6	345	1.2	48.92	5.0	20.0	9.0	20.0						
	33.6	294	1.4	41.72	6.0	20.0	9.0	20.0						
	40.2	246	1.6	34.86	6.0	20.0	9.0	20.0						
	44.5	222	1.8	31.48	7.0	20.0	9.0	20.0						
	50.5	196	2.0	27.72	7.0	20.0	9.0	20.0						
	25.5	371	0.8	109.98	4.0	20.0	8.0	20.0	PKD 1390 80M2C / 80M2D	40	206-207			
	28.7	328	0.9	97.43	4.0	20.0	8.0	20.0						
	32.5	290	1.0	86.12	4.0	20.0	8.0	20.0						
	36.5	259	1.2	76.68	4.0	20.0	9.0	20.0						
	44.6	212	1.4	62.74	4.0	20.0	8.0	20.0						
	50.7	186	1.6	55.26	5.0	20.0	9.0	20.0						
	57.2	165	1.8	48.92	5.0	20.0	9.0	20.0						
	67.1	141	2.2	41.72	6.0	20.0	9.0	20.0						
	80.3	118	2.6	34.86	6.0	20.0	9.0	20.0						
	88.9	106	2.9	31.48	7.0	20.0	9.0	20.0						
	17.2	594	1.0	52.42	7.2	12.0	-	-	PKD H 5290 90L6C / 90L6D	53	202-203			
	19.6	519	1.0	45.86	7.4	12.0	-	-						
	22.1	462	1.0	40.77	7.6	12.0	-	-						
	24.6	414	1.7	36.59	7.8	12.0	-	-						
	28.1	363	1.8	32.02	7.9	12.0	-	-						
	31.6	322	2.0	28.46	8.0	12.0	-	-						
	50.4	202	3.0	17.84	7.5	12.0	-	-						
	26.7	378	1.5	52.42	7.2	12.0	-	-	PKD H 5290 90L4B / 90L4C	53	202-203			
30.5	330	1.5	45.86	7.4	12.0	-	-							
34.3	294	1.5	40.77	7.6	12.0	-	-							
38.3	264	2.5	36.59	7.8	12.0	-	-							
43.7	231	2.7	32.02	7.9	12.0	-	-							
49.2	205	2.9	28.46	8.0	12.0	-	-							
43.8	223	1.6	63.96	7.2	12.0	-	-	PKD H 5290 80M2C / 80M2D	49	202-203				
50.0	196	1.6	55.96	7.2	12.0	-	-							
53.4	183	2.4	52.42	7.2	12.0	-	-							
61.1	160	2.4	45.86	7.4	12.0	-	-							
68.7	142	2.4	40.77	7.6	12.0	-	-							
21.4	476	0.8	42.01	4.8	12.0	-	-	PKD F 4290 90L6C / 90L6D	41	198-199				
24.1	423	0.8	37.34	5.1	12.0	-	-							
26.4	387	1.0	34.15	5.3	12.0	-	-							
30.1	338	1.1	29.88	5.5	12.0	-	-							
33.9	301	1.2	26.56	5.7	12.0	-	-							
56.0	182	2.1	16.08	4.9	12.0	-	-							
64.0	159	2.2	14.07	4.9	12.0	-	-							
71.3	143	2.5	12.63	4.9	12.0	-	-							
82.0	124	2.8	10.98	4.9	12.0	-	-							
92.2	111	3.0	9.76	4.9	12.0	-	-							



P_1 [kW]	n_2 [Min ⁻¹]	M_2 [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{RGR} [kN]	F_{AGR} [kN]	Tip / Type / Typ IE2 / IE3	 Kg	 mm			
1.10	29.2	346	1.1	48.01	4.3	12.0	-	-	PKD F 4290 90L4B / 90L4C	41	198-199			
	33.3	303	1.1	42.01	4.8	12.0	-	-						
	37.5	269	1.2	37.34	5.1	12.0	-	-						
	41.0	246	1.5	34.15	5.3	12.0	-	-						
	46.9	215	1.6	29.88	5.5	12.0	-	-						
	52.7	191	1.7	26.56	5.7	12.0	-	-						
	47.3	207	1.4	59.20	4.3	12.0	-	-				PKD F 4290 80M2C / 80M2D	37	198-199
	54.1	181	1.4	51.80	4.3	12.0	-	-						
	58.3	168	1.7	48.01	4.3	12.0	-	-						
	66.7	147	1.8	42.01	4.8	12.0	-	-						
	75.0	130	1.9	37.34	5.1	12.0	-	-						
	82.0	119	2.4	34.15	5.3	12.0	-	-						
	93.7	104	2.5	29.88	5.5	12.0	-	-						
	105.4	93	2.7	26.56	5.7	12.0	-	-						
	32.9	310	0.8	27.36	3.6	9.0	-	-	PKD C 1290 90L6C / 60L6D	32	194-195			
	37.0	275	0.8	24.32	3.9	9.0	-	-						
	41.0	248	0.8	21.94	4.1	9.0	-	-						
	46.9	217	1.1	19.19	4.2	9.0	-	-						
	52.8	193	1.3	17.06	4.3	9.0	-	-						
	61.4	166	1.2	14.66	4.4	9.0	-	-						
	69.3	147	1.4	12.99	4.5	9.0	-	-						
	79.2	129	1.6	11.37	4.6	9.0	-	-						
	83.3	122	1.5	10.81	4.6	9.0	-	-						
	95.0	107	1.7	9.47	4.6	9.0	-	-						
	108.6	94	2.0	8.29	4.7	9.0	-	-						
	123.5	83	2.1	7.29	3.7	9.0	-	-						
	138.9	73	2.3	6.48	3.7	9.0	-	-						
	150.8	68	2.4	5.97	3.7	9.0	-	-						
	169.5	60	2.5	5.31	3.7	9.0	-	-						
	44.8	225	0.8	31.27	3.2	9.0	-	-				PKD C 1290 90L4B / 90L4C	32	194-195
	51.2	197	1.2	27.36	3.6	9.0	-	-						
	57.6	175	1.2	24.32	3.9	9.0	-	-						
	63.8	158	1.2	21.94	4.1	9.0	-	-						
	73.0	138	1.7	19.19	4.2	9.0	-	-						
	82.1	123	1.9	17.06	4.3	9.0	-	-						
	95.5	106	1.8	14.66	4.4	9.0	-	-						
	107.8	94	2.1	12.99	4.5	9.0	-	-						
	123.1	82	2.4	11.37	4.6	9.0	-	-						
	129.5	78	2.3	10.81	4.6	9.0	-	-						
	147.8	68	2.6	9.47	4.6	9.0	-	-						
	168.9	60	2.9	8.29	4.7	9.0	-	-						
	64.4	152	0.8	43.48	3.2	9.0	-	-	PKD C 1290 80M2C / 80M2D	28	194-195			
	72.6	135	1.1	38.59	3.2	9.0	-	-						
	82.9	118	1.2	33.76	3.2	9.0	-	-						
	89.5	109	1.3	31.27	3.2	9.0	-	-						
	102.3	96	1.8	27.36	3.6	9.0	-	-						
	115.1	85	1.9	24.32	3.9	9.0	-	-						
	127.6	77	1.9	21.94	4.1	9.0	-	-						
145.9	67	2.6	19.19	4.2	9.0	-	-							
164.1	60	2.9	17.06	4.3	9.0	-	-							
191.0	51	2.8	14.66	4.4	9.0	-	-							
66.8	153	0.8	13.48	3.1	5.6	-	-	PKD B 0290 90L6C / 90L6D	25	190-191				
76.3	134	0.9	11.79	3.1	5.6	-	-							
87.0	117	1.0	10.35	3.1	5.6	-	-							
99.3	103	1.1	9.06	3.2	5.6	-	-							
112.5	91	1.2	8.00	3.2	5.6	-	-							
127.7	80	1.2	7.05	3.3	5.5	-	-							
149.0	68	1.4	6.04	3.3	5.2	-	-							
168.5	60	1.5	5.34	3.3	5.0	-	-							
188.7	54	1.6	4.77	3.3	4.8	-	-							
219.0	47	1.7	4.11	3.2	4.5	-	-							



P_1 [kW]	n_2 [Min ⁻¹]	M_2 [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{RGR} [kN]	F_{AGR} [kN]	Tip / Type / Typ IE2 / IE3		
1.10	89.6	113	1.1	15.62	3.0	5.6	-	-	PKD B 0290 90L4B / 90L4C	25	190-191
	103.9	97	1.2	13.48	3.1	5.6	-	-			
	118.7	85	1.4	11.79	-	-	-	-			
	135.3	75	1.5	10.35	3.1	5.6	-	-			
	154.5	65	1.6	9.06	3.2	5.6	-	-			
	175.0	58	1.7	8.00	3.2	5.6	-	-			
	198.6	51	1.9	7.05	3.3	5.5	-	-			
	231.8	44	2.1	6.04	3.3	5.2	-	-			
	262.2	38	2.2	5.34	3.3	5.0	-	-			
	293.5	34	2.3	4.77	3.3	4.8	-	-			
	340.6	30	2.5	4.11	3.2	4.5	-	-			
	86.8	113	0.8	32.24	3.0	5.6	-	-	PKD B 0290 80M2C / 80M2D	21	190-191
	99.3	99	0.9	28.21	3.0	5.6	-	-			
	107.7	91	1.0	25.99	3.0	5.6	-	-			
	123.1	79	1.1	22.74	3.0	5.6	-	-			
	148.9	66	1.0	18.81	3.0	5.6	-	-			
	179.3	55	1.7	15.62	3.0	5.6	-	-			
	207.7	47	1.9	13.48	3.1	5.6	-	-			
	237.5	41	2.1	11.79	3.1	5.6	-	-			
	270.5	36	2.3	10.35	3.1	5.6	-	-			
	309.1	32	2.5	9.06	3.2	5.6	-	-			
	350.0	28	2.7	8.00	3.2	5.6	-	-			
	397.2	25	2.9	7.05	3.3	5.5	-	-			
	120.4	81	0.8	23.26	2.8	5.1	-	-	PKD A 0290 80M2C / 80M2D	17	186-187
	137.6	71	1.0	20.35	2.8	5.1	-	-			
	206.3	47	1.2	13.57	2.8	5.1	-	-			
	253.4	39	1.8	11.05	2.8	5.1	-	-			
	289.6	34	2.0	9.67	2.8	5.1	-	-			
	311.5	31	2.2	8.99	2.8	5.1	-	-			
	356.2	27	2.5	7.86	2.8	5.1	-	-			
434.1	23	2.9	6.45	2.8	5.1	-	-				
484.4	20	3.0	5.78	2.8	5.1	-	-				
1.50	0.2	64564	0.8	4441.42	-	-	-	-	PKD G 9390/63 100L6C / 100L6D	1798	282
	0.2	53677	1.0	3692.48	-	-	-	-			
	0.3	46665	1.1	3210.12	-	-	-	-			
	0.3	38945	1.3	2679.06	-	-	-	-			
	0.4	33671	1.6	2316.27	-	-	-	-			
	0.4	29831	1.8	2052.10	-	-	-	-			
	0.5	25791	2.0	1774.21	-	-	-	-			
	0.2	60388	0.8	6706.55	-	-	-	-	PKD G 9390/63 90L4C / 90L4D	1788	282
	0.3	50205	1.0	5575.65	-	-	-	-			
	0.3	39992	1.3	4441.42	-	-	-	-			
	0.4	33248	1.5	3692.48	-	-	-	-			
	0.4	28905	1.7	3210.12	-	-	-	-			
	0.5	24123	2.1	2679.06	-	-	-	-			
	0.6	20856	2.4	2316.27	-	-	-	-			
	0.7	18478	2.7	2052.10	-	-	-	-			
	0.2	49391	0.8	11954.86	-	-	-	-	PKD G 9390/63 90L2B / 90L2C	1788	282
	0.3	40130	0.9	9713.32	-	-	-	-			
	0.3	34318	1.1	8306.57	-	-	-	-			
	0.4	32400	1.2	7842.34	-	-	-	-			
	0.4	27708	1.4	6706.55	-	-	-	-			
	0.5	23035	1.6	5575.65	-	-	-	-			
	0.6	18349	2.1	4441.42	-	-	-	-			
	0.8	15255	2.5	3692.48	-	-	-	-			
	0.9	13262	2.9	3210.12	-	-	-	-			
	0.6	23962	2.2	1623.67	-	-	-	-	PKD G 9390/62 100L6C / 100L6D	1800	282
	0.7	19981	2.6	1353.86	-	-	-	-			
	0.4	31203	1.1	2114.30	152.0	70.0	-	-	PKD 9390/52 100L6C / 100L6D	1500	280
0.5	26493	1.3	1795.13	152.0	70.0	-	-				
0.6	21024	1.6	1424.59	152.0	70.0	160.0	70.0				
0.8	16519	2.0	1119.32	152.0	70.0	160.0	70.0				
1.1	12485	2.7	846.00	152.0	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_{RGR} [kN]	F_{AGR} [kN]	Tip / Type / Typ IE2 / IE3	 Kg	 mm
1.50	0.4	32742	0.8	3555.41	-	-	-	-	PKD 9390/52 90L4C / 90L4D	1490	280
	0.5	26830	1.0	2913.46	-	-	-	-			
	0.7	19470	1.6	2114.30	-	-	-	-			
	0.8	16531	1.9	1795.13	-	-	-	-			
	1.0	13119	2.4	1424.59	152.0	70.0	160.0	70.0			
	0.6	21121	1.2	4933.39	152.0	70.0	-	-	PKD 9390/52 90L2B / 90L2C	1490	280
	0.8	15222	1.3	3555.41	152.0	70.0	-	-			
	1.0	12473	1.6	2913.46	152.0	70.0	-	-			
	1.3	9052	2.7	2114.30	152.0	70.0	-	-			
	0.5	26366	0.8	1786.51	109.0	120.0	-	-	PKD G 8390/52 100L6C / 100L6D	930	280
	0.6	21595	1.0	1463.24	109.0	120.0	120.0	65.0			
	0.7	17765	1.2	1203.73	114.0	120.0	120.0	65.0			
	1.0	13427	1.6	909.80	117.0	120.0	120.0	65.0			
	1.3	10550	2.0	714.84	120.0	120.0	120.0	65.0			
	1.4	9204	2.3	623.65	116.0	65.0	120.0	65.0			
	0.7	19469	0.9	2114.13	-	-	-	-	PKD G 8390/52 90L4C / 90L4D	920	280
	0.8	16452	1.1	1786.51	-	-	-	-			
	1.0	13475	1.3	1463.24	109.0	120.0	120.0	65.0			
	1.2	11085	1.6	1203.73	114.0	120.0	120.0	65.0			
	1.5	8378	2.1	909.80	117.0	120.0	120.0	65.0			
	2.0	6583	2.7	714.84	120.0	120.0	120.0	65.0			
	0.8	15429	1.0	3603.72	109.0	120.0	-	-	PKD G 8390/52 90L2B / 90L2C	920	280
	0.9	12925	1.2	3018.87	109.0	120.0	-	-			
	1.3	9051	1.7	2114.13	109.0	120.0	-	-			
	1.6	7649	2.0	1786.51	109.0	120.0	-	-			
	1.9	6265	2.4	1463.24	109.0	120.0	120.0	65.0			
	2.3	5153	2.9	1203.73	114.0	120.0	120.0	65.0			
	0.9	15023	0.9	1017.96	89.0	60.0	95.0	60.0	PKD 8390/42 100L6C / 100L6D	655	280
	1.1	12477	1.1	845.40	91.0	60.0	95.0	60.0			
	1.3	10405	1.3	705.03	93.0	60.0	95.0	60.0			
	1.5	8898	1.5	602.92	94.0	60.0	95.0	60.0			
	2.0	6558	2.1	444.35	87.0	60.0	95.0	60.0			
	2.4	5608	2.4	379.99	87.0	60.0	95.0	60.0			
	0.8	16687	0.8	1812.03	-	-	-	-	PKD 8390/42 90L4C / 90L4D	645	280
	1.0	13514	1.0	1467.49	78.0	60.0	95.0	60.0			
	1.4	9374	1.4	1017.96	89.0	60.0	95.0	60.0			
	1.7	7785	1.7	845.40	91.0	60.0	95.0	60.0			
	2.0	6493	2.0	705.03	93.0	60.0	95.0	60.0			
	2.3	5552	2.3	602.92	94.0	60.0	95.0	60.0			
	1.0	11508	0.9	2688.01	78.0	60.0	-	-	PKD 8390/42 90L2B / 90L2C	645	280
	1.4	8763	1.1	2046.84	78.0	60.0	-	-			
	1.5	7758	1.3	1812.03	78.0	60.0	-	-			
1.9	6283	1.6	1467.49	78.0	60.0	95.0	60.0				
2.8	4358	2.3	1017.96	89.0	60.0	95.0	60.0				
3.3	3619	2.7	845.40	91.0	60.0	95.0	60.0				
3.3	3976	2.2	269.43	37.0	50.0	66.0	50.0	PKD 7390/42 100L6C / 100L6D	395	278	
4.6	2897	2.7	196.30	37.0	50.0	66.0	50.0				
5.7	2318	2.9	157.05	37.0	50.0	66.0	49.0				
1.2	11292	0.8	765.14	54.0	50.0	66.0	50.0	PKD 7390/32 100L6C / 100L6D	378	278	
1.5	8797	1.0	596.10	59.0	50.0	66.0	50.0				
1.9	6950	1.3	470.91	62.0	50.0	66.0	50.0				
2.3	5678	1.6	384.74	63.0	50.0	66.0	50.0				
2.9	4576	2.0	310.09	64.0	50.0	66.0	50.0				
1.2	10740	0.8	1166.22	51.0	50.0	66.0	50.0	PKD 7390/32 90L4C / 90L4D	368	278	
1.4	8955	0.9	972.42	45.0	50.0	66.0	50.0				
1.8	7046	1.2	765.14	54.0	50.0	66.0	50.0				
2.3	5489	1.5	596.10	59.0	50.0	66.0	50.0				
3.0	4337	2.0	470.91	62.0	50.0	66.0	50.0				
3.6	3543	2.4	384.74	63.0	50.0	66.0	50.0				
4.5	2856	3.0	310.09	64.0	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_{RGR} [kN]	F_{AGR} [kN]	Tip / Type / Typ IE2 / IE3		
1.50	1.5	8174	0.8	1909.17	51.0	50.0	-	-	PKD 7390/32 90L2B / 90L2C	278	268
	1.9	6201	1.0	1448.34	51.0	50.0	66.0	50.0			
	2.4	4993	1.3	1166.22	51.0	50.0	66.0	50.0			
	2.9	4163	1.6	972.42	45.0	50.0	66.0	50.0			
	3.7	3276	2.0	765.14	54.0	50.0	66.0	50.0			
	4.7	2552	2.5	596.10	59.0	50.0	66.0	50.0			
	3.7	3735	2.4	245.55	64.0	50.0	66.0	50.0	PKD 7390 100L6C / 100L6D	344	258-259
	4.3	3148	2.8	206.98	64.0	50.0	66.0	50.0			
	3.5	3813	2.3	258.36	42.0	45.0	66.0	50.0	PKD 6390/42 100L6C / 100L6D	395	278
	4.8	2778	2.7	188.23	42.0	45.0	66.0	50.0			
	6.0	2223	2.9	150.60	42.0	45.0	66.0	50.0			
	1.2	10828	0.8	733.69	55.0	50.0	66.0	50.0	PKD 6390/32 100L6C / 100L6D	378	278
	1.6	8436	1.0	571.60	60.0	50.0	66.0	50.0			
	2.0	6664	1.3	451.55	62.0	50.0	66.0	50.0			
	2.4	5445	1.6	368.93	63.0	50.0	66.0	50.0			
	3.0	4388	2.0	297.35	64.0	50.0	66.0	50.0			
	1.3	10298	0.8	1118.29	53.0	50.0	66.0	50.0	PKD 6390/32 90L4C / 90L4D	368	278
	1.5	8587	1.0	932.46	48.0	50.0	66.0	50.0			
	1.9	6756	1.2	733.69	55.0	50.0	66.0	50.0			
	2.4	5264	1.6	571.60	60.0	50.0	66.0	50.0			
	3.1	4158	2.0	451.55	62.0	50.0	66.0	50.0			
	3.8	3397	2.4	368.93	63.0	50.0	66.0	50.0			
	4.7	2738	3.0	297.35	64.0	50.0	66.0	50.0			
	1.5	7838	0.8	1830.71	53.0	50.0	-	-	PKD 6390/32 90L2B / 90L2C	368	278
	2.0	5946	1.0	1388.82	53.0	50.0	66.0	50.0			
	2.5	4788	1.3	1118.29	53.0	50.0	66.0	50.0			
	3.0	3992	1.6	932.46	48.0	50.0	66.0	50.0			
	3.8	3141	2.0	733.69	55.0	50.0	66.0	50.0			
	4.9	2447	2.5	571.60	60.0	50.0	66.0	50.0			
	3.8	3581	2.4	235.45	64.0	50.0	66.0	50.0	PKD 6390 100L6C / 100L6D	344	254-255
	4.5	3015	2.9	198.23	64.0	50.0	66.0	50.0			
	2.6	5227	1.0	348.85	33.0	45.0	38.0	45.0	PKD 5490 100L6C / 100L6D	222	250-251
	3.4	3965	1.3	264.64	36.0	45.0	38.0	45.0			
	3.9	3431	1.5	228.99	36.0	45.0	38.0	45.0			
	5.5	2472	2.0	165.02	25.0	45.0	38.0	44.0			
	2.4	5465	0.9	580.56	30.0	45.0	38.0	45.0	PKD 5490 90L4C / 90L4D	212	250-251
3.0	4321	1.1	459.05	28.0	45.0	38.0	45.0				
4.0	3284	1.5	348.85	33.0	45.0	38.0	45.0				
5.3	2491	1.9	264.64	36.0	45.0	38.0	45.0				
6.1	2156	2.2	228.99	36.0	45.0	38.0	45.0				
2.6	4711	0.8	1061.93	30.0	45.0	38.0	45.0	PKD 5490 90L2B / 90L2C	212	250-251	
3.0	4131	0.9	931.06	30.0	45.0	38.0	45.0				
4.0	3122	1.0	703.71	30.0	45.0	38.0	45.0				
4.8	2576	1.4	580.56	30.0	45.0	38.0	45.0				
6.1	2037	1.8	459.05	28.0	45.0	38.0	45.0				
8.0	1548	2.4	348.85	33.0	45.0	38.0	45.0				
3.1	4405	1.1	289.62	35.0	45.0	38.0	45.0	PKD 5390 100L6C / 100L6D	204	246-247	
3.6	3763	1.3	247.36	36.0	45.0	38.0	45.0				
4.5	3017	1.7	198.37	37.0	45.0	38.0	44.0				
5.3	2577	2.0	169.43	37.0	45.0	38.0	42.0				
6.2	2210	1.7	145.30	37.0	45.0	38.0	41.0				
7.5	1825	2.8	120.01	37.0	45.0	38.0	39.0				
4.8	2786	1.7	289.62	35.0	45.0	38.0	45.0	PKD 5390 90L4C / 90L4D	194	246-247	
5.7	2379	2.0	247.36	36.0	45.0	38.0	45.0				
9.7	1332	2.7	289.62	35.0	45.0	38.0	45.0	PKD 5390 90L2B / 90L2C	194	246-247	
4.4	3058	1.0	204.13	27.0	40.0	28.0	31.0	PKD 4490 100L6C / 100L6D	144	242-243	
5.2	2578	1.1	172.07	17.0	40.0	28.0	30.0				



P_1 [kW]	n_2 [Min ⁻¹]	M_2 [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{RGR} [kN]	F_{AGR} [kN]	Tip / Type / Typ IE2 / IE3				
1.50	4.0	3299	0.8	350.42	16.0	40.0	28.0	28.0	PKD 4490 90L4C / 90L4D	134	242-243		
	5.0	2626	1.1	278.98	27.0	40.0	28.0	33.0					
	6.9	1922	1.5	204.13	27.0	40.0	28.0	31.0					
	8.1	1620	1.7	172.07	17.0	40.0	28.0	30.0					
	4.9	2519	0.8	567.85	16.0	40.0	28.0	37.0	PKD 4490 90L2B / 90L2C	134	242-243		
	6.9	1795	1.2	404.53	16.0	40.0	28.0	31.0					
	8.0	1555	1.4	350.42	16.0	40.0	28.0	28.0					
	10.0	1238	1.7	278.98	27.0	40.0	28.0	33.0					
	13.7	906	2.3	204.13	27.0	40.0	28.0	31.0					
	16.3	763	2.8	172.07	17.0	40.0	28.0	30.0					
	3.8	3572	0.8	234.83	23.0	40.0	28.0	28.0	PKD 4390 100L6C / 100L6D	129	238-239		
	4.6	2968	1.0	195.09	25.0	40.0	28.0	27.0					
	5.6	2433	1.2	159.93	27.0	40.0	28.0	24.0					
	6.8	2021	1.5	132.86	27.0	40.0	28.0	23.0					
	7.6	1792	1.4	117.81	27.0	40.0	28.0	25.0					
	9.4	1454	2.0	95.57	28.0	40.0	28.0	24.0					
	10.4	1316	2.2	86.50	23.0	40.0	28.0	24.0					
	11.8	1157	2.5	76.08	23.0	40.0	28.0	22.0					
	13.1	1042	2.8	68.52	23.0	40.0	28.0	21.0					
	4.2	3170	0.9	329.57	18.0	40.0	28.0	28.0	PKD 4390 90L4C / 90L4D	119	238-239		
	5.1	2633	1.1	273.80	22.0	40.0	28.0	28.0					
	6.0	2259	1.2	234.83	23.0	40.0	28.0	28.0					
	7.2	1876	1.5	195.09	25.0	40.0	28.0	27.0					
	8.5	1590	0.9	165.34	26.0	40.0	28.0	27.0					
	11.9	1133	2.1	117.81	27.0	40.0	28.0	25.0					
	14.6	919	3.0	95.57	28.0	40.0	28.0	24.0					
	8.5	1515	1.4	329.57	18.0	40.0	28.0	28.0	PKD 4390 90L2B / 90L2C	119	238-239		
	10.2	1259	1.7	273.80	22.0	40.0	28.0	28.0					
	11.9	1080	2.0	234.83	23.0	40.0	28.0	28.0					
	14.4	897	2.4	195.09	25.0	40.0	28.0	27.0					
	16.9	760	1.5	165.34	26.0	40.0	28.0	27.0					
	6.5	2025	0.8	215.12	15.0	15.0	-	-	PKD 3490 90L4C / 90L4D	80	234-235		
	8.4	1578	1.0	167.59	15.0	15.0	-	-					
	7.9	1566	0.8	353.00	15.0	15.0	14.0	20.0	PKD 3490 90L2B / 90L2C	80	234-235		
	10.5	1188	1.0	267.79	15.0	15.0	12.0	17.0					
	13.0	954	1.2	215.12	15.0	15.0	-	-					
	16.7	744	1.6	167.59	15.0	15.0	-	-					
	8.1	1688	1.0	110.94	12.0	15.0	15.0	14.0				PKD 3390 100L6C / 100L6D	82
	9.6	1425	1.1	93.67	13.0	15.0	15.0	14.0					
	10.7	1280	1.3	84.16	12.0	15.0	15.0	14.0					
	11.9	1155	1.4	75.92	12.0	15.0	15.0	14.0					
	14.0	975	1.7	64.11	12.0	15.0	15.0	13.0					
	15.2	900	1.8	59.15	12.0	15.0	15.0	13.0					
	18.0	760	2.1	49.94	1.0	15.0	15.0	13.0					
18.9	725	2.2	47.67	1.0	15.0	15.0	13.0						
22.3	614	2.7	40.37	1.0	15.0	15.0	12.0						
23.6	579	2.8	38.09	1.0	15.0	15.0	11.0						
25.2	542	3.0	35.65	1.0	15.0	15.0	11.0						
7.1	1901	0.8	197.69	1.0	15.0	12.0	14.0	PKD 3390 90L4C / 90L4D	72	230-231			
7.4	1810	0.9	188.22	1.0	15.0	13.0	14.0						
8.8	1529	1.0	158.92	7.0	15.0	15.0	14.0						
10.0	1342	1.2	139.49	9.0	15.0	15.0	14.0						
11.9	1133	1.4	117.78	11.0	15.0	15.0	14.0						
12.6	1067	1.5	110.94	12.0	15.0	15.0	14.0						
14.9	901	1.7	93.67	13.0	15.0	15.0	14.0						
16.6	809	1.9	84.16	12.0	15.0	15.0	14.0						
18.4	730	2.1	75.92	12.0	15.0	15.0	14.0						
21.8	617	2.5	64.11	12.0	15.0	15.0	13.0						
23.7	569	2.7	59.15	12.0	15.0	15.0	13.0						



P_1 [kW]	n_2 [Min ⁻¹]	M_2 [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{RGR} [kN]	F_{AGR} [kN]	Tip / Type / Typ IE2 / IE3	 Kg	 mm
1.50	9.5	1361	0.9	296.10	1.0	15.0	15.0	19.0	PKD 3390 90L2B / 20L2C	72	230-231
	11.2	1149	1.0	250.01	1.0	15.0	14.0	16.0			
	12.0	1076	1.1	234.13	1.0	15.0	15.0	16.0			
	14.2	909	1.3	197.69	1.0	15.0	12.0	14.0			
	14.9	865	1.4	188.22	1.0	15.0	13.0	14.0			
	17.6	731	1.6	158.92	7.0	15.0	15.0	14.0			
	20.1	641	1.8	139.49	9.0	15.0	15.0	14.0			
	23.8	541	2.2	117.78	11.0	15.0	15.0	14.0			
	25.2	510	2.3	110.94	12.0	15.0	15.0	14.0			
	29.9	431	2.7	93.67	13.0	15.0	15.0	14.0			
	33.3	387	3.0	84.16	12.0	15.0	15.0	14.0			
	11.4	1199	0.8	78.85	4.0	12.0	10.0	13.0			
	13.5	1011	0.9	66.47	6.0	12.0	11.0	13.0			
	15.5	886	1.0	58.24	7.0	12.0	11.0	13.0			
	17.3	793	1.1	52.11	8.0	12.0	12.0	13.0			
	18.4	745	1.2	48.99	8.0	12.0	12.0	13.0			
	20.1	681	1.3	44.80	8.0	12.0	12.0	13.0			
	22.7	604	1.5	39.70	8.0	12.0	12.0	12.0			
	27.0	506	1.8	33.28	9.0	12.0	12.0	12.0			
	28.6	478	1.8	31.43	9.0	12.0	12.0	12.0			
	30.8	444	2.0	29.22	5.0	12.0	12.0	12.0			
	34.4	398	2.3	26.14	5.0	12.0	12.0	11.0			
	36.6	374	2.4	24.58	5.0	12.0	12.0	11.0			
	40.0	342	2.4	22.48	5.0	12.0	12.0	11.0			
	45.2	303	2.6	19.92	5.0	12.0	12.0	11.0			
	51.4	266	2.8	17.52	5.0	12.0	12.0	10.0			
	55.2	248	2.6	16.29	5.0	12.0	12.0	10.0			
	61.7	222	2.7	14.58	5.0	12.0	12.0	9.0			
	71.8	191	3.0	12.53	5.0	12.0	12.0	9.0			
	14.2	951	0.9	98.92	0.3	12.0	7.0	13.0	PKD 2390 90L4C / 90L4D	52	222-223
	17.8	758	1.1	78.85	4.0	12.0	10.0	13.0			
	21.1	639	1.3	66.47	6.0	12.0	11.0	13.0			
	24.0	560	1.5	58.24	7.0	12.0	11.0	13.0			
	26.9	501	1.7	52.11	8.0	12.0	12.0	13.0			
	28.6	471	1.8	48.99	8.0	12.0	12.0	13.0			
	31.3	431	2.0	44.80	8.0	12.0	12.0	13.0			
	35.3	382	2.3	39.70	8.0	12.0	12.0	12.0			
	42.1	320	2.7	33.28	9.0	12.0	12.0	12.0			
	44.5	302	2.7	31.43	9.0	12.0	12.0	12.0			
	28.3	455	1.4	98.92	0.3	12.0	7.0	13.0	PKD 2390 90L2B / 90L2C	52	222-223
	35.5	363	1.8	78.85	4.0	12.0	10.0	13.0			
	42.1	306	2.1	66.47	6.0	12.0	11.0	13.0			
	48.1	268	2.4	58.24	7.0	12.0	11.0	13.0			
	53.7	240	2.7	52.11	8.0	12.0	12.0	13.0			
	57.2	225	2.9	48.99	8.0	12.0	12.0	13.0			
	17.2	797	0.8	52.42	8.0	20.0	9.0	20.0	PKD G 1390 100L6C / 100L6D	55	214-215
	19.5	702	0.9	46.16	8.0	20.0	9.0	20.0			
	22.0	622	1.0	40.87	9.0	20.0	9.0	20.0			
25.8	530	1.2	34.86	9.0	20.0	9.0	20.0				
29.6	463	1.4	30.44	9.0	19.0	9.0	19.0				
34.2	400	1.6	26.30	9.0	19.0	9.0	19.0				
38.9	352	1.5	23.16	9.0	19.0	9.0	19.0				
43.9	312	2.0	20.51	9.0	18.0	9.0	18.0				
51.5	266	2.1	17.49	7.0	20.0	9.0	16.0				
58.9	232	2.4	15.27	7.0	20.0	9.0	16.0				
72.1	190	2.9	12.49	7.0	20.0	9.0	15.0				
17.2	783	0.8	81.40	7.0	20.0	9.0	20.0	PKD G 1390 90L4C / 90L4D			
19.5	692	0.9	71.94	5.0	20.0	9.0	20.0				
21.9	616	1.0	64.06	7.0	20.0	9.0	20.0				
26.7	504	1.2	52.42	8.0	20.0	9.0	20.0				
30.3	444	1.4	46.16	8.0	20.0	9.0	20.0				
34.3	393	1.5	40.87	9.0	20.0	9.0	20.0				
40.2	335	1.8	34.86	9.0	20.0	9.0	20.0				
46.0	293	2.0	30.44	9.0	19.0	9.0	19.0				
53.2	253	2.4	26.30	9.0	19.0	9.0	19.0				
60.4	223	2.3	23.16	9.0	19.0	9.0	19.0				
68.3	197	2.9	20.51	9.0	18.0	9.0	18.0				



P_1 [kW]	n_2 [Min ⁻¹]	M_2 [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{RGR} [kN]	F_{AGR} [kN]	Tip / Type / Typ IE2 / IE3	 Kg	 mm								
1.50	34.4	374	1.2	81.40	7.0	20.0	9.0	20.0	PKD G 1390 90L2B / 90L2C	45	214-215								
	38.9	331	1.4	71.94	5.0	20.0	9.0	20.0											
	43.7	295	1.6	64.06	7.0	20.0	9.0	20.0											
	53.4	241	1.9	52.42	8.0	20.0	9.0	20.0											
	60.7	212	2.2	46.16	8.0	20.0	9.0	20.0											
	68.5	188	2.4	40.87	9.0	20.0	9.0	20.0											
	80.3	160	2.8	34.86	9.0	20.0	9.0	20.0											
	25.8	530	0.8	34.86	6.0	20.0	9.0	20.0				PKD 1390 100L6C / 100L6D	54	206-207					
	28.6	479	0.9	31.48	6.0	20.0	9.0	20.0											
	32.5	422	1.0	27.72	6.0	19.0	9.0	19.0											
36.7	373	1.1	24.55	7.0	19.0	9.0	19.0												
43.0	318	1.3	20.93	7.0	18.0	9.0	18.0												
51.5	266	1.5	17.49	7.0	16.0	9.0	17.0												
58.9	232	1.7	15.27	7.0	16.0	9.0	17.0												
73.3	187	1.2	12.27	7.0	16.0	9.0	16.0												
82.9	165	1.3	10.86	7.0	15.0	9.0	15.0												
97.2	141	1.5	9.26	4.0	20.0	9.0	15.0												
111.2	123	1.5	8.09	4.0	20.0	9.0	14.0												
25.3	532	471	0.8	55.26	7.0	20.0	9.0	20.0	PKD 1390 90L4C / 90L4D	44	206-207								
												28.6	401	0.9	48.92	3.0	20.0	8.0	20.0
												33.6	335	1.0	41.72	5.0	20.0	8.0	20.0
												40.2	303	1.2	34.86	6.0	20.0	9.0	20.0
												44.5	267	1.3	31.48	6.0	20.0	9.0	20.0
												50.5	236	1.5	27.72	6.0	19.0	9.0	19.0
												57.0	201	1.7	24.55	7.0	19.0	9.0	19.0
												66.9	118	2.0	20.93	7.0	18.0	9.0	18.0
												114.1	104	1.9	12.27	7.0	16.0	9.0	16.0
												128.9	104	1.9	10.86	7.0	15.0	9.0	15.0
32.5	396	288	0.8	86.12	7.0	20.0	8.0	20.0	PKD 1390 90L2B / 90L2C	44	206-207								
												36.5	254	0.9	76.68	7.0	20.0	9.0	20.0
												44.6	225	1.1	62.74	7.0	20.0	8.0	20.0
												50.7	192	1.2	55.26	7.0	20.0	9.0	20.0
												57.2	160	1.4	48.92	3.0	20.0	8.0	20.0
												67.1	145	1.6	41.72	5.0	20.0	8.0	20.0
												80.3	127	1.9	34.86	6.0	20.0	9.0	20.0
												88.9	113	2.1	31.48	6.0	20.0	9.0	20.0
												101.0	56	2.4	27.72	6.0	19.0	9.0	19.0
												114.1	50	2.7	24.55	7.0	19.0	9.0	19.0
228.2	50	3.0	12.27	7.0	16.0	9.0	16.0												
257.8	50	3.0	10.86	7.0	15.0	9.0	15.0												
24.6	565	440	1.2	36.59	7.3	12.0	-	-	PKD H 5290 100L6C / 100L6D	63	202-203								
												28.1	392	1.3	32.02	7.7	12.0	-	-
												31.6	343	1.4	28.46	7.7	12.0	-	-
												35.5	305	1.7	25.37	7.2	12.0	-	-
												40.5	275	1.9	22.20	7.2	12.0	-	-
												45.6	241	2.1	19.73	7.2	12.0	-	-
												50.4	214	2.2	17.84	7.2	12.0	-	-
												57.7	191	2.5	15.61	7.2	12.0	-	-
												64.8	191	2.6	13.88	7.2	12.0	-	-
												72.6	191	2.8	12.40	7.2	12.0	-	-
26.7	515	400	1.1	52.42	6.2	12.0	-	-	PKD H 5290 90L4C / 90L4D	53	202-203								
												30.5	359	1.1	45.86	6.2	12.0	-	-
												34.3	315	1.1	40.77	7.0	12.0	-	-
												38.3	280	1.8	36.59	7.3	12.0	-	-
												43.7	280	2.0	32.02	7.7	12.0	-	-
												49.2	280	2.1	28.46	7.7	12.0	-	-
53.4	250	194	1.7	52.42	6.2	12.0	-	-	PKD H 5290 90L2B / 90L2C	53	202-203								
												61.1	174	1.8	45.86	6.2	12.0	-	-
												68.7	174	1.8	40.77	7.0	12.0	-	-
												76.5	174	2.9	36.59	7.3	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 / Typ IE2 / IE3					
1.50	26.4	527	0.8	34.15	4.4	12.0	-	-	PKD F 4290 100L6C / 100L6D	51	198-199			
	30.1	461	0.8	29.88	4.9	12.0	-	-						
	33.9	410	0.8	26.56	5.2	12.0	-	-						
	38.7	359	1.1	23.26	5.9	12.0	-	-						
	44.2	314	1.1	20.35	5.9	12.0	-	-						
	49.8	279	1.2	18.09	5.9	12.0	-	-						
	56.0	248	1.6	16.08	5.9	12.0	-	-						
	64.0	217	1.6	14.07	5.9	12.0	-	-						
	71.3	195	1.8	12.63	6.0	12.0	-	-						
	82.0	170	2.1	10.98	4.3	12.0	-	-						
	92.2	151	2.2	9.76	4.3	12.0	-	-						
	103.8	134	2.5	8.67	4.3	12.0	-	-						
	116.7	119	2.7	7.71	4.3	12.0	-	-						
	132.4	105	2.9	6.80	4.3	12.0	-	-						
	29.2	472	0.8	48.01	0.9	12.0	-	-				PKD F 4290 90L4C / 90L4D	41	198-199
	33.3	413	0.8	42.01	3.1	12.0	-	-						
	37.5	367	0.9	37.34	3.9	12.0	-	-						
	41.0	335	1.1	34.15	4.4	12.0	-	-						
	46.9	294	1.2	29.88	4.9	12.0	-	-						
	52.7	261	1.3	26.56	5.2	12.0	-	-						
	87.1	158	2.3	16.08	5.9	12.0	-	-						
	99.5	138	2.5	14.07	5.9	12.0	-	-						
	110.8	124	2.7	12.63	6.0	12.0	-	-						
	58.3	229	1.2	48.01	0.9	12.0	-	-	PKD F 4290 90L2B / 90L2C	41	198-199			
	66.7	200	1.3	42.01	3.1	12.0	-	-						
	75.0	178	1.4	37.34	3.9	12.0	-	-						
	82.0	163	1.8	34.15	4.4	12.0	-	-						
	93.7	142	1.8	29.88	4.9	12.0	-	-						
	105.4	127	2.0	26.56	5.2	12.0	-	-						
	46.9	296	0.8	19.19	3.7	9.0	-	-	PKD C 1290 100L6C / 100L6D	42	194-195			
	52.8	263	0.9	17.06	4.0	9.0	-	-						
	69.3	201	1.0	12.99	4.3	9.0	-	-						
	79.2	176	1.2	11.37	4.4	9.0	-	-						
	83.3	167	1.1	10.81	4.4	9.0	-	-						
	95.0	146	1.3	9.47	4.5	9.0	-	-						
	108.6	128	1.4	8.29	4.6	8.8	-	-						
	123.5	113	1.5	7.29	4.6	8.4	-	-						
	138.9	100	1.7	6.48	4.6	8.1	-	-						
	150.8	92	1.8	5.97	4.7	7.8	-	-						
	169.5	82	1.9	5.31	4.7	7.5	-	-						
	51.2	269	0.9	27.36	2.2	9.0	-	-				PKD C 1290 90L4C / 90L4D	32	194-195
	57.6	239	0.9	24.32	2.9	9.0	-	-						
63.8	216	0.9	21.94	3.4	9.0	-	-							
73.0	189	1.2	19.19	3.7	9.0	-	-							
82.1	168	1.4	17.06	4.0	9.0	-	-							
95.5	144	1.3	14.66	4.2	9.0	-	-							
107.8	128	1.5	12.99	4.3	9.0	-	-							
123.1	112	1.7	11.37	4.4	9.0	-	-							
129.5	106	1.7	10.81	4.4	9.0	-	-							
147.8	93	1.9	9.47	4.5	9.0	-	-							
168.9	81	2.1	8.29	4.6	8.8	-	-							
192.0	72	2.3	7.29	4.6	8.4	-	-							
216.0	64	2.5	6.48	4.6	8.1	-	-							
234.5	59	2.6	5.97	4.7	7.8	-	-							
263.7	52	2.8	5.31	4.7	7.5	-	-							
89.5	149	1.0	31.27	2.2	9.0	-	-	PKD C 1290 90L2B / 90L2C	32	194-195				
102.3	130	1.3	27.36	2.2	9.0	-	-							
115.1	116	1.4	24.32	2.9	9.0	-	-							
127.6	105	1.4	21.94	3.4	9.0	-	-							
145.9	91	1.9	19.19	3.7	9.0	-	-							
164.1	81	2.2	17.06	4.0	9.0	-	-							
191.0	70	2.1	14.66	4.2	9.0	-	-							
215.6	62	2.4	12.99	4.3	9.0	-	-							
246.3	54	2.7	11.37	4.4	9.0	-	-							
259.0	52	2.7	10.81	4.4	9.0	-	-							
295.7	45	2.9	9.47	4.5	9.0	-	-							

P_1 [kW]	n_2 [Min ⁻¹]	M_2 [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{RGR} [kN]	F_{AGR} [kN]	Tip / Type / Typ IE2 / IE3					
1.50	89.6	153	0.8	15.62	-	-	-	-	PKD B 0290 90L4C / 90L4D	25	190-191			
	103.9	132	0.9	13.48	-	-	-	-						
	118.7	116	1.0	11.79	-	-	-	-						
	135.3	102	1.1	10.35	2.7	5.6	-	-						
	154.5	89	1.2	9.06	2.9	5.6	-	-						
	175.0	79	1.3	8.00	3.0	5.4	-	-						
	198.6	69	1.4	7.05	3.1	5.2	-	-						
	231.8	59	1.5	6.04	3.2	5.0	-	-						
	262.2	52	1.6	5.34	3.2	4.7	-	-						
	293.5	47	1.7	4.77	3.2	4.6	-	-						
	340.6	40	1.9	4.11	3.1	4.3	-	-						
	123.1	108	0.8	22.74	2.7	5.6	-	-				PKD B 0290 90L2B / 90L2C	25	190-191
	207.7	64	1.4	13.48	2.7	5.6	-	-						
	237.5	56	1.6	11.79	2.7	5.6	-	-						
	270.5	49	1.7	10.35	2.7	5.6	-	-						
	309.1	43	1.8	9.06	2.9	5.6	-	-						
	350.0	38	2.0	8.00	3.0	5.4	-	-						
	397.2	34	2.1	7.05	3.1	5.2	-	-						
	463.6	29	2.4	6.04	3.2	5.0	-	-						
524.3	25	2.5	5.34	3.2	4.7	-	-							
587.0	23	2.7	4.77	3.2	4.6	-	-							
681.3	20	2.9	4.11	3.1	4.3	-	-							
2.20	0.3	68442	0.8	3210.12	-	-	-	-	PKD G 9390/63 112M6C / 112M6D	1806	282			
	0.3	57119	0.9	2679.06	-	-	-	-						
	0.4	49384	1.1	2316.27	-	-	-	-						
	0.4	43752	1.2	2052.10	-	-	-	-						
	0.5	37827	1.4	1774.21	-	-	-	-						
	0.3	58655	0.9	4441.42	-	-	-	-	PKD G 9390/63 100L4B / 100L4C	1798	282			
	0.4	48764	1.0	3692.48	-	-	-	-						
	0.4	42394	1.2	3210.12	-	-	-	-						
	0.5	35380	1.4	2679.06	-	-	-	-						
	0.6	30589	1.6	2316.27	-	-	-	-						
	0.7	27101	1.8	2052.10	-	-	-	-						
	0.8	23431	2.1	1774.21	-	-	-	-						
	0.3	50333	0.8	8306.57	-	-	-	-	PKD G 9390/63 90L2D	1788	282			
	0.4	47520	0.8	7842.34	-	-	-	-						
	0.4	40638	0.9	6706.55	-	-	-	-						
	0.5	33785	1.1	5575.65	-	-	-	-						
	0.6	26912	1.4	4441.42	-	-	-	-						
	0.8	22374	1.7	3692.48	-	-	-	-						
	0.9	19452	2.0	3210.12	-	-	-	-						
	1.0	16234	2.3	2679.06	-	-	-	-						
	1.2	14035	2.7	2316.27	-	-	-	-						
	0.6	35145	1.5	1623.67	-	-	-	-				PKD G 9390/62 112M6C / 112M6D	1808	282
	0.7	29305	1.8	1353.86	-	-	-	-						
	0.8	25222	2.1	1165.22	-	-	-	-						
	0.9	21198	2.5	979.31	-	-	-	-						
	1.1	17675	3.0	816.57	-	-	-	-						
	0.9	21930	2.3	1623.67	-	-	-	-	PKD G 9390/62 100L4B / 100L4C	1800	282			
	1.0	18286	2.7	1353.86	-	-	-	-						
	0.5	38856	0.9	1795.13	144.0	70.0	-	-	PKD 9390/52 112M6C / 112M6D	1508	280			
	0.6	30836	1.1	1424.59	144.0	70.0	160.0	70.0						
	0.8	24228	1.4	1119.32	150.0	70.0	160.0	70.0						
	1.1	18312	1.8	846.00	154.0	70.0	160.0	70.0						
	1.3	15293	2.2	706.54	152.0	70.0	160.0	70.0						
1.5	13198	2.5	609.75	152.0	70.0	160.0	70.0							
0.7	28557	1.1	2114.30	-	-	-	-	PKD 9390/52 100L4B / 100L4C	1500	280				
0.8	24246	1.3	1795.13	-	-	-	-							
1.0	19241	1.7	1424.59	144.0	70.0	160.0	70.0							
1.3	15118	2.1	1119.32	150.0	70.0	160.0	70.0							
1.7	11426	2.8	846.00	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 / Typ IE2 / IE3		
2.20	0.6	30978	0.8	4933.39	144.0	70.0	-	-	PKD 9390/52 90L2D	1490	280
	0.8	22325	0.9	3555.41	144.0	70.0	-	-			
	1.0	18294	1.1	2913.46	144.0	70.0	-	-			
	1.3	13276	1.8	2114.30	144.0	70.0	-	-			
	1.6	11272	2.2	1795.13	144.0	70.0	-	-			
	2.0	8945	2.7	1424.59	144.0	70.0	160.0	70.0			
	0.7	26055	0.8	1203.73	103.0	65.0	120.0	65.0	PKD G 8390/52 112M6C / 112M6D	938	280
	1.0	19693	1.1	909.80	112.0	65.0	120.0	65.0			
	1.3	15473	1.4	714.84	116.0	65.0	120.0	65.0			
	1.4	13499	1.6	623.65	118.0	65.0	120.0	65.0			
	2.1	9415	2.2	434.96	109.0	120.0	120.0	65.0			
	2.4	8214	2.6	379.47	109.0	120.0	120.0	65.0			
	1.0	19763	0.9	1463.24	92.0	65.0	120.0	65.0	PKD G 8390/52 100L4B / 100L4C	930	280
	1.2	16258	1.1	1203.73	103.0	65.0	120.0	65.0			
	1.5	12288	1.5	909.80	112.0	65.0	120.0	65.0			
	2.0	9655	1.9	714.84	116.0	65.0	120.0	65.0			
	2.2	8423	2.1	623.65	118.0	65.0	120.0	65.0			
	0.9	18956	0.8	3018.87	92.0	65.0	-	-	PKD G 8390/52 90L2D	920	280
	1.3	13275	1.1	2114.13	92.0	65.0	-	-			
	1.6	11218	1.4	1786.51	92.0	65.0	-	-			
	1.9	9188	1.7	1463.24	92.0	65.0	120.0	65.0			
	2.3	7558	2.0	1203.73	103.0	65.0	120.0	65.0			
	3.1	5713	2.7	909.80	112.0	65.0	120.0	65.0			
	3.7	5334	2.6	246.45	95.0	60.0	95.0	60.0	PKD 8390/52 112M6C / 112M6D	688	280
	1.3	15261	0.9	705.03	88.0	60.0	95.0	60.0	PKD 8390/42 112M6C / 112M6D	663	280
	1.5	13050	1.0	602.92	91.0	60.0	95.0	60.0			
	2.0	9618	1.4	444.35	94.0	60.0	95.0	60.0			
	2.4	8225	1.7	379.99	95.0	60.0	95.0	60.0			
	3.1	6191	2.2	286.02	78.0	60.0	95.0	60.0			
	1.4	13749	0.9	1017.96	78.0	60.0	95.0	60.0	PKD 8390/42 100L4B / 100L4C	655	280
	1.7	11418	1.1	845.40	85.0	60.0	95.0	60.0			
	2.0	9522	1.4	705.03	88.0	60.0	95.0	60.0			
	2.3	8143	1.6	602.92	91.0	60.0	95.0	60.0			
	3.2	6002	2.2	444.35	94.0	60.0	95.0	60.0			
	3.7	5132	2.5	379.99	95.0	60.0	95.0	60.0			
	1.4	12853	0.8	2046.84	78.0	60.0	-	-	PKD 8390/42 90L2D	645	280
	1.5	11378	0.9	1812.03	78.0	60.0	-	-			
	1.9	9215	1.1	1467.49	78.0	60.0	95.0	60.0			
	2.8	6392	1.5	1017.96	78.0	60.0	95.0	60.0			
	3.3	5308	1.9	845.40	85.0	60.0	95.0	60.0			
	4.0	4427	2.2	705.03	88.0	60.0	95.0	60.0			
	4.6	3786	2.6	602.92	91.0	60.0	95.0	60.0			
3.3	5832	1.5	269.43	64.0	50.0	66.0	50.0	PKD 7390/42 112M6C / 112M6D	403	278	
4.6	4249	1.8	196.30	64.0	50.0	66.0	50.0				
5.7	3399	2.0	157.05	65.0	50.0	66.0	49.0				
6.7	2907	2.2	134.31	37.0	50.0	66.0	46.0				
5.2	3639	2.3	269.43	64.0	50.0	66.0	50.0	PKD 7390/42 100L4B / 100L4C	395	278	
7.1	2651	2.8	196.30	64.0	50.0	66.0	50.0				
8.9	2121	3.0	157.05	65.0	50.0	66.0	49.0				
1.9	10193	0.9	470.91	57.0	50.0	66.0	50.0	PKD 7390/32 112M6C / 112M6D	386	278	
2.3	8328	1.1	384.74	60.0	50.0	66.0	50.0				
2.9	6712	1.3	310.09	62.0	50.0	66.0	50.0				
1.8	10334	0.8	765.14	38.0	50.0	66.0	50.0	PKD 7390/32 100L4B / 100L4C	378	278	
2.3	8051	1.1	596.10	51.0	50.0	66.0	50.0				
3.0	6360	1.3	470.91	57.0	50.0	66.0	50.0				
3.6	5196	1.6	384.74	60.0	50.0	66.0	50.0				
4.5	4188	2.0	310.09	62.0	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_{RGR} [kN]	F_{AGR} [kN]	Tip / Type / Typ IE2 / IE3		
2.20	2.4	7323	0.9	1166.22	38.0	50.0	66.0	50.0	PKD 7390/32 90L2D	368	278
	2.9	6106	1.1	972.42	38.0	50.0	66.0	50.0			
	3.7	4804	1.3	765.14	38.0	50.0	66.0	50.0			
	4.7	3743	1.7	596.10	51.0	50.0	66.0	50.0			
	5.9	2957	2.2	470.91	57.0	50.0	66.0	50.0			
	7.3	2416	2.7	384.74	60.0	50.0	66.0	50.0			
	3.7	5478	1.6	245.55	64.0	50.0	66.0	50.0	PKD 7390 112M6C / 112M6D	352	258-259
	4.3	4618	1.9	206.98	64.0	50.0	66.0	50.0			
	6.6	3049	2.3	136.65	65.0	50.0	66.0	50.0			
	5.7	3464	2.5	245.55	64.0	50.0	66.0	50.0	PKD 7390 100L4B / 100L4C	344	258-259
	6.8	2920	2.9	206.98	64.0	50.0	66.0	50.0			
	3.5	5592	1.5	258.36	63.0	50.0	66.0	50.0	PKD 6390/42 112M6C / 112M6D	403	278
	4.8	4074	1.9	188.23	64.0	50.0	66.0	50.0			
	6.0	3260	2.0	150.60	65.0	50.0	66.0	50.0			
	7.0	2788	2.3	128.79	42.0	45.0	66.0	50.0			
	5.4	3490	2.3	258.36	63.0	50.0	66.0	50.0	PKD 6390/42 100L4B / 100L4C	395	278
	7.4	2542	2.8	188.23	64.0	50.0	66.0	50.0			
	9.3	2034	3.0	150.60	65.0	50.0	66.0	50.0			
	2.0	9774	0.9	451.55	58.0	50.0	66.0	50.0	PKD 6390/32 112M6C / 112M6D	386	278
	2.4	7986	1.1	368.93	60.0	50.0	66.0	50.0			
	3.0	6436	1.3	297.35	62.0	50.0	66.0	50.0			
	1.9	9910	0.8	733.69	43.0	50.0	66.0	50.0	PKD 6390/32 100L4B / 100L4C	378	278
	2.4	7720	1.1	571.60	52.0	50.0	66.0	50.0			
	3.1	6099	1.3	451.55	58.0	50.0	66.0	50.0			
	3.8	4983	1.6	368.93	60.0	50.0	66.0	50.0			
	4.7	4016	2.0	297.35	62.0	50.0	66.0	50.0			
	2.5	7022	0.9	1118.29	43.0	50.0	66.0	50.0	PKD 6390/32 90L2D	368	278
	3.0	5855	1.1	932.46	43.0	50.0	66.0	50.0			
	3.8	4607	1.4	733.69	43.0	50.0	66.0	50.0			
	4.9	3589	1.7	571.60	52.0	50.0	66.0	50.0			
	6.2	2835	2.2	451.55	58.0	50.0	66.0	50.0			
	7.6	2317	2.7	368.93	60.0	50.0	66.0	50.0			
	3.8	5253	1.6	235.45	61.0	50.0	66.0	50.0	PKD 6390 112M6C / 112M6D	352	254-255
	4.5	4422	1.9	198.23	64.0	50.0	66.0	50.0			
	7.0	2886	2.4	129.36	64.0	50.0	66.0	50.0			
	5.9	3321	2.5	235.45	61.0	50.0	66.0	50.0	PKD 6390 100L4B / 100L4C	344	254-255
7.1	2796	2.9	198.23	64.0	50.0	66.0	50.0				
3.4	5815	0.9	264.64	36.0	45.0	38.0	45.0	PKD 5490 112M6C / 112M6D	230	250-251	
3.9	5032	1.0	228.99	18.0	45.0	38.0	45.0				
5.5	3626	1.4	165.02	38.0	45.0	38.0	44.0				
4.0	4816	1.0	348.85	26.0	45.0	38.0	45.0	PKD 5490 100L4B / 100L4C	222	250-251	
5.3	3654	1.3	264.64	36.0	45.0	38.0	45.0				
6.1	3162	1.5	228.99	18.0	45.0	38.0	45.0				
8.5	2278	2.1	165.02	38.0	45.0	38.0	45.0				
4.8	3778	1.0	580.56	26.0	45.0	38.0	45.0	PKD 5490 90L2D	212	250-251	
6.1	2987	1.2	459.05	26.0	45.0	38.0	45.0				
8.0	2270	1.6	348.85	26.0	45.0	38.0	45.0				
10.6	1722	2.1	264.64	36.0	45.0	38.0	45.0				
12.2	1490	2.4	228.99	18.0	45.0	38.0	45.0				
3.1	6461	0.8	289.62	31.0	45.0	38.0	45.0	PKD 5390 112M6C / 112M6D	212	246-247	
3.6	5519	0.9	247.36	33.0	45.0	38.0	45.0				
4.5	4426	1.1	198.37	35.0	45.0	38.0	44.0				
5.3	3780	1.3	169.43	36.0	45.0	38.0	42.0				
6.2	3242	1.2	145.30	37.0	45.0	38.0	41.0				
7.5	2677	1.9	120.01	37.0	45.0	38.0	39.0				
8.8	2287	2.2	102.50	35.0	45.0	38.0	38.0				
10.2	1966	2.6	88.12	35.0	45.0	38.0	36.0				



P_1 [kW]	n_2 [Min ⁻¹]	M_2 [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{RGR} [kN]	F_{AGR} [kN]	Tip / Type / Typ IE2 / IE3				
2.20	4.8	4086	1.2	289.62	31.0	45.0	38.0	45.0	PKD 5390 100L4B / 100L4C	204	246-247		
	5.7	3489	1.4	247.36	33.0	45.0	38.0	45.0					
	7.1	2798	1.7	198.37	35.0	45.0	38.0	44.0					
	8.3	2390	2.0	169.43	36.0	45.0	38.0	42.0					
	9.6	2050	2.3	145.30	37.0	45.0	38.0	41.0					
	11.7	1693	2.8	120.01	37.0	45.0	38.0	39.0					
	9.7	1953	1.9	289.62	31.0	45.0	38.0	45.0	PKD 5390 90L2D	194	246-247		
	11.3	1668	2.2	247.36	33.0	45.0	38.0	45.0					
	19.3	980	2.8	145.30	37.0	45.0	38.0	41.0					
	5.2	3781	0.8	172.07	17.0	40.0	28.0	20.0	PKD 4490 112M6C / 112M6D	152	242-243		
	6.9	2818	1.0	204.13	27.0	40.0	-	-	PKD 4490 100L4B / 100L4C	144	242-243		
	8.1	2376	1.2	172.07	17.0	40.0	28.0	20.0					
	6.9	2632	0.8	404.53	27.0	40.0	28.0	31.0	PKD 4490 90L2D	134	242-243		
	8.0	2280	0.9	350.42	27.0	40.0	28.0	28.0					
	10.0	1815	1.2	278.98	27.0	40.0	-	-					
	13.7	1328	1.6	204.13	27.0	40.0	-	-					
	16.3	1120	1.9	172.07	17.0	40.0	28.0	20.0					
	5.6	3568	0.8	159.93	24.0	40.0	28.0	24.0				PKD 4390 112M6C / 112M6D	137
	6.8	2964	1.0	132.86	25.0	40.0	28.0	23.0					
	7.6	2628	1.0	117.81	26.0	40.0	28.0	23.0					
	9.4	2132	1.4	95.57	27.0	40.0	28.0	23.0					
	10.4	1930	1.5	86.50	27.0	40.0	28.0	22.0					
	11.8	1697	1.7	76.08	27.0	40.0	28.0	22.0					
	13.1	1529	1.9	68.52	28.0	40.0	28.0	21.0					
	14.2	1410	2.1	63.21	18.0	40.0	28.0	21.0					
	16.2	1242	2.4	55.67	18.0	40.0	28.0	21.0					
	18.9	1062	2.8	47.61	18.0	40.0	28.0	19.0					
	6.0	3313	0.8	234.83	17.0	40.0	28.0	23.0	PKD 4390 100L4B / 100L4C	129	238-239		
	7.2	2752	1.0	195.09	21.0	40.0	28.0	23.0					
	8.8	2256	1.2	159.93	24.0	40.0	28.0	24.0					
	10.5	1874	1.5	132.86	25.0	40.0	28.0	23.0					
	11.9	1662	1.4	117.81	26.0	40.0	28.0	23.0					
	14.6	1348	2.1	95.57	27.0	40.0	28.0	23.0					
	16.2	1220	2.3	86.50	27.0	40.0	28.0	22.0					
	18.4	1073	2.6	76.08	27.0	40.0	28.0	22.0					
	20.4	967	2.9	68.52	28.0	40.0	28.0	21.0					
8.5	2222	1.0	329.57	17.0	40.0	28.0	28.0	PKD 4390 90L2D	119	238-239			
10.2	1846	1.2	273.80	17.0	40.0	28.0	28.0						
11.9	1583	1.3	234.83	17.0	40.0	28.0	23.0						
14.4	1315	1.6	195.09	21.0	40.0	28.0	23.0						
16.9	1115	1.0	165.34	24.0	40.0	28.0	27.0						
23.8	794	2.3	117.81	26.0	40.0	28.0	23.0						
13.0	1400	0.8	215.12	15.0	15.0	-	-	PKD 3490 90L2D	80	234-235			
16.7	1090	1.1	167.59	15.0	15.0	-	-						
9.6	2090	0.8	93.67	10.0	15.0	15.0	12.0	PKD 3390 112M6C / 112M6D	90	230-231			
10.7	1878	0.9	84.16	11.0	15.0	15.0	12.0						
11.9	1694	1.0	75.92	11.0	15.0	15.0	12.0						
14.0	1430	1.1	64.11	11.0	15.0	15.0	12.0						
15.2	1320	1.2	59.15	11.0	15.0	15.0	12.0						
18.0	1114	1.5	49.94	10.0	15.0	15.0	12.0						
18.9	1063	1.5	47.67	10.0	15.0	15.0	12.0						
22.3	901	1.8	40.37	10.0	15.0	15.0	11.0						
23.6	850	1.9	38.09	10.0	15.0	15.0	11.0						
25.2	795	2.0	35.65	1.0	15.0	15.0	11.0						
30.3	662	2.4	29.67	1.0	15.0	15.0	11.0						
35.9	559	2.8	25.06	1.0	15.0	15.0	10.0						
37.6	534	3.0	23.92	1.0	15.0	15.0	10.0						



P_1 [kW]	n_2 [Min ⁻¹]	M_2 [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{RGR} [kN]	F_{AGR} [kN]	Tip / Type / Typ IE2 / IE3	 Kg	 mm			
2.20	12.6	1565	1.0	110.94	7.0	15.0	15.0	12.0	PKD 3390 100L4B / 100L4C	82	230-231			
	14.9	1321	1.2	93.67	10.0	15.0	15.0	12.0						
	16.6	1187	1.3	84.16	11.0	15.0	15.0	12.0						
	18.4	1071	1.4	75.92	11.0	15.0	15.0	12.0						
	21.8	904	1.7	64.11	11.0	15.0	15.0	12.0						
	23.7	834	1.9	59.15	11.0	15.0	15.0	12.0						
	28.0	704	2.2	49.94	10.0	15.0	15.0	12.0						
	29.4	672	2.3	47.67	10.0	15.0	15.0	12.0						
	34.7	569	2.7	40.37	10.0	15.0	15.0	11.0						
	36.8	537	2.9	38.09	10.0	15.0	15.0	11.0						
	14.2	1333	0.9	197.69	7.0	15.0	12.0	14.0				PKD 3390 90L2D	72	230-231
	14.9	1269	0.9	188.22	7.0	15.0	13.0	14.0						
	17.6	1072	1.1	158.92	7.0	15.0	15.0	14.0						
	20.1	941	1.3	139.49	7.0	15.0	15.0	14.0						
	23.8	794	1.5	117.78	7.0	15.0	15.0	14.0						
	25.2	748	1.6	110.94	7.0	15.0	15.0	12.0						
	29.9	632	1.9	93.67	10.0	15.0	15.0	12.0						
	33.3	567	2.1	84.16	11.0	15.0	15.0	12.0						
	36.9	512	2.3	75.92	11.0	15.0	15.0	12.0						
	43.7	432	2.7	64.11	11.0	15.0	15.0	12.0						
	47.3	399	3.0	59.15	11.0	15.0	15.0	12.0						
	17.3	1163	0.8	52.11	5.0	12.0	10.0	11.0	PKD 2390 112M6C / 112M6D	70	222-223			
	18.4	1093	0.8	48.99	5.0	12.0	10.0	11.0						
	20.1	999	0.9	44.80	6.0	12.0	11.0	11.0						
	22.7	886	1.0	39.70	7.0	12.0	11.0	11.0						
	27.0	742	1.2	33.28	8.0	12.0	12.0	11.0						
	28.6	701	1.2	31.43	8.0	12.0	12.0	11.0						
	30.8	652	1.4	29.22	8.0	12.0	12.0	11.0						
	34.4	583	1.5	26.14	8.0	12.0	12.0	11.0						
	36.6	548	1.6	24.58	8.0	12.0	12.0	10.0						
	40.0	502	1.6	22.48	8.0	12.0	12.0	10.0						
	45.2	444	1.8	19.92	8.0	12.0	12.0	10.0						
	51.4	391	1.9	17.52	8.0	12.0	12.0	10.0						
	55.2	363	1.8	16.29	8.0	12.0	12.0	10.0						
	61.7	325	1.9	14.58	8.0	12.0	12.0	9.0						
	71.8	280	2.0	12.53	3.0	12.0	12.0	9.0						
	81.0	248	2.2	11.11	3.0	12.0	12.0	9.0						
	102.4	196	2.6	8.79	3.0	12.0	12.0	8.0						
	17.8	1112	0.8	78.85	4.0	12.0	10.0	13.0				PKD 2390 100L4B / 100L4C	62	222-223
	21.1	938	0.9	66.47	0.4	12.0	8.0	11.0						
	24.0	822	1.0	58.24	2.0	12.0	9.0	11.0						
	26.9	735	1.2	52.11	5.0	12.0	10.0	11.0						
	28.6	691	1.2	48.99	5.0	12.0	10.0	11.0						
	31.3	632	1.4	44.80	6.0	12.0	11.0	11.0						
	35.3	560	1.5	39.70	7.0	12.0	11.0	11.0						
	42.1	469	1.8	33.28	8.0	12.0	12.0	11.0						
	44.5	443	1.8	31.43	8.0	12.0	12.0	11.0						
	47.9	412	2.1	29.22	8.0	12.0	12.0	11.0						
53.6	369	2.3	26.14	8.0	12.0	12.0	11.0							
57.0	347	2.5	24.58	8.0	12.0	12.0	10.0							
62.3	317	2.5	22.48	8.0	12.0	12.0	10.0							
70.3	281	2.7	19.92	8.0	12.0	12.0	10.0							
79.9	247	2.9	17.52	8.0	12.0	12.0	10.0							
85.9	230	2.7	16.29	8.0	12.0	12.0	10.0							
96.0	206	2.8	14.58	8.0	12.0	12.0	9.0							
28.3	667	1.0	98.92	4.0	12.0	7.0	13.0	PKD 2390 90L2D	52	222-223				
35.5	532	1.2	78.85	4.0	12.0	10.0	13.0							
42.1	448	1.5	66.47	4.0	12.0	8.0	11.0							
48.1	393	1.7	58.24	2.0	12.0	9.0	11.0							
53.7	351	1.9	52.11	5.0	12.0	10.0	11.0							
57.2	330	2.0	48.99	5.0	12.0	10.0	11.0							
62.5	302	2.2	44.80	6.0	12.0	11.0	11.0							
70.5	268	2.4	39.70	7.0	12.0	11.0	11.0							
84.1	224	2.9	33.28	8.0	12.0	12.0	11.0							
89.1	212	2.9	31.43	8.0	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 / Typ IE2 / IE3		
2.20	25.8	778	0.8	34.86	8.0	18.0	9.0	18.0	PKD G 1390 112M6C / 112M6D	63	214-215
	29.6	679	0.9	30.44	9.0	18.0	9.0	18.0			
	34.2	587	1.1	26.30	9.0	18.0	9.0	18.0			
	38.9	517	1.1	23.16	9.0	17.0	9.0	17.0			
	43.9	458	1.3	20.51	9.0	17.0	9.0	17.0			
	51.5	390	1.5	17.49	9.0	16.0	9.0	16.0			
	58.9	341	1.6	15.27	9.0	16.0	9.0	16.0			
	72.1	279	2.0	12.49	9.0	15.0	9.0	15.0			
	26.7	739	0.8	52.42	5.0	19.0	9.0	19.0			
	30.3	651	0.9	46.16	7.0	18.0	9.0	18.0			
34.3	577	1.0	40.87	7.0	18.0	9.0	18.0				
40.2	492	1.2	34.86	8.0	18.0	9.0	18.0				
46.0	429	1.4	30.44	9.0	18.0	9.0	18.0				
53.2	371	1.6	26.30	9.0	18.0	9.0	18.0				
60.4	327	1.6	23.16	9.0	17.0	9.0	17.0				
68.3	289	2.0	20.51	9.0	17.0	9.0	17.0				
80.0	247	2.2	17.49	9.0	16.0	9.0	16.0				
91.7	215	2.4	15.27	9.0	16.0	9.0	16.0				
112.1	176	3.0	12.49	9.0	15.0	9.0	15.0				
34.4	549	0.8	81.40	5.0	19.0	9.0	20.0				
38.9	485	0.9	71.94	5.0	19.0	9.0	20.0				
43.7	432	1.1	64.06	5.0	19.0	9.0	20.0				
53.4	353	1.3	52.42	5.0	19.0	9.0	19.0				
60.7	311	1.5	46.16	7.0	18.0	9.0	18.0				
68.5	276	1.7	40.87	7.0	18.0	9.0	18.0				
80.3	235	1.9	34.86	8.0	18.0	9.0	18.0				
92.0	205	2.2	30.44	9.0	18.0	9.0	18.0				
106.5	177	2.6	26.30	9.0	18.0	9.0	18.0				
120.9	156	2.5	23.16	9.0	17.0	9.0	17.0				
36.7	548	0.8	24.55	6.0	17.0	9.0	17.0				
43.0	467	0.9	20.93	6.0	17.0	9.0	17.0				
51.5	390	1.0	17.49	7.0	16.0	9.0	16.0				
58.9	341	1.2	15.27	7.0	16.0	9.0	16.0				
73.3	274	0.8	12.27	7.0	15.0	9.0	15.0				
82.9	242	0.9	10.86	7.0	15.0	9.0	15.0				
97.2	207	1.0	9.26	7.0	14.0	9.0	14.0				
111.2	180	1.0	8.09	7.0	14.0	9.0	14.0				
40.2	492	0.8	34.86	3.0	18.0	8.0	18.0				
44.5	444	0.9	31.48	4.0	18.0	8.0	18.0				
50.5	391	1.0	27.72	5.0	18.0	9.0	18.0				
57.0	346	1.2	24.55	6.0	17.0	9.0	17.0				
66.9	295	1.4	20.93	6.0	17.0	9.0	17.0				
80.0	247	1.5	17.49	7.0	16.0	9.0	16.0				
91.7	215	1.8	15.27	7.0	16.0	9.0	16.0				
114.1	173	1.3	12.27	7.0	15.0	9.0	15.0				
128.9	153	1.3	10.86	7.0	15.0	9.0	15.0				
151.2	131	1.5	9.26	7.0	14.0	9.0	14.0				
173.1	114	1.6	8.09	7.0	14.0	9.0	14.0				
50.7	373	0.8	55.26	3.0	18.0	9.0	20.0				
57.2	330	0.9	48.92	3.0	18.0	8.0	20.0				
67.1	281	1.1	41.72	3.0	18.0	8.0	20.0				
80.3	235	1.3	34.86	3.0	18.0	8.0	18.0				
88.9	212	1.4	31.48	4.0	18.0	8.0	18.0				
101.0	187	1.6	27.72	5.0	18.0	9.0	18.0				
114.1	166	1.8	24.55	6.0	17.0	9.0	17.0				
133.8	141	2.2	20.93	6.0	17.0	9.0	17.0				
160.1	118	2.4	17.49	7.0	16.0	9.0	16.0				
183.4	103	2.8	15.27	7.0	16.0	9.0	16.0				
228.2	83	2.0	12.27	7.0	15.0	9.0	15.0				
257.8	73	2.1	10.86	7.0	15.0	9.0	15.0				
302.4	62	2.4	9.26	7.0	14.0	9.0	14.0				
346.1	55	2.5	8.09	7.0	14.0	9.0	14.0				

P_1 [kW]	n_2 [Min ⁻¹]	M_2 [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{RGR} [kN]	F_{AGR} [kN]	Tip / Type / Typ IE2 / IE3					
2.20	24.6	829	0.8	36.59	6.1	12.0	-	-	PKD H 5290 112M6C / 112M6D	71	202-203			
	28.1	725	0.9	32.02	6.7	12.0	-	-						
	31.6	645	1.0	28.46	7.1	12.0	-	-						
	35.5	575	1.2	25.37	7.3	12.0	-	-						
	40.5	503	1.3	22.20	7.6	12.0	-	-						
	45.6	447	1.4	19.73	7.7	12.0	-	-						
	50.4	404	1.5	17.84	7.8	12.0	-	-						
	57.7	354	1.7	15.61	7.9	12.0	-	-						
	64.8	314	1.8	13.88	7.8	12.0	-	-						
	72.6	281	1.9	12.40	7.6	12.0	-	-						
	82.9	246	2.2	10.85	6.2	12.0	-	-						
	93.4	218	2.4	9.64	6.2	12.0	-	-						
	105.1	194	2.7	8.56	6.2	12.0	-	-						
	118.6	172	2.9	7.59	6.2	12.0	-	-						
	38.3	527	1.3	36.59	6.1	12.0	-	-				PKD H 5290 100L4B / 100L4C	63	202-203
	43.7	461	1.4	32.02	6.7	12.0	-	-						
	49.2	410	1.5	28.46	7.1	12.0	-	-						
	55.2	366	1.8	25.37	7.3	12.0	-	-						
	63.1	320	1.9	22.20	7.6	12.0	-	-						
	71.0	284	2.1	19.73	7.7	12.0	-	-						
	78.5	257	2.3	17.84	7.8	12.0	-	-						
	89.7	225	2.6	15.61	7.9	12.0	-	-						
	100.9	200	2.7	13.88	7.8	12.0	-	-						
	112.9	179	2.9	12.40	7.6	12.0	-	-						
	53.4	366	1.2	52.42	6.1	12.0	-	-	PKD H 5290 90L2D	53	202-203			
	61.1	320	1.2	45.86	6.1	12.0	-	-						
	68.7	285	1.2	40.77	6.1	12.0	-	-						
	76.5	256	2.0	36.59	6.1	12.0	-	-						
	87.4	224	2.1	32.02	6.7	12.0	-	-						
	98.4	199	2.3	28.46	7.1	12.0	-	-						
	44.2	461	0.8	20.35	5.0	12.0	-	-	PKD F 4290 112M6C / 112M6D	59	198-199			
	49.8	410	0.8	18.09	5.3	12.0	-	-						
	56.0	364	1.1	16.08	5.5	12.0	-	-						
	64.0	319	1.1	14.07	5.7	12.0	-	-						
	71.3	286	1.2	12.63	5.8	12.0	-	-						
	82.0	249	1.4	10.98	5.9	11.8	-	-						
	92.2	221	1.5	9.76	5.9	11.3	-	-						
	103.8	196	1.7	8.67	6.0	10.9	-	-						
	116.7	175	1.9	7.71	6.0	10.4	-	-						
	132.4	154	2.0	6.80	6.1	10.0	-	-						
	152.0	134	2.2	5.92	0.9	12.0	-	-						
	41.0	492	0.8	34.15	1.8	12.0	-	-				PKD F 4290 100L4B / 100L4C	51	198-199
	46.9	430	0.8	29.88	3.0	12.0	-	-						
	52.7	383	0.9	26.56	3.9	12.0	-	-						
	60.2	335	1.1	23.26	4.6	12.0	-	-						
	68.8	293	1.2	20.35	5.0	12.0	-	-						
	77.4	261	1.2	18.09	5.3	12.0	-	-						
	87.1	232	1.6	16.08	5.5	12.0	-	-						
99.5	203	1.7	14.07	5.7	12.0	-	-							
110.8	182	1.9	12.63	5.8	12.0	-	-							
127.5	158	2.1	10.98	5.9	11.8	-	-							
143.4	141	2.3	9.76	5.9	11.3	-	-							
161.5	125	2.6	8.67	6.0	10.9	-	-							
181.6	111	2.8	7.71	6.0	10.4	-	-							
205.9	98	3.0	6.80	6.1	10.0	-	-							
58.3	335	0.8	48.01	1.8	12.0	-	-	PKD F 4290 90L2D	41	198-199				
66.7	294	0.9	42.01	1.8	12.0	-	-							
75.0	261	1.0	37.34	1.8	12.0	-	-							
82.0	239	1.2	34.15	1.8	12.0	-	-							
93.7	209	1.2	29.88	3.0	12.0	-	-							
105.4	186	1.4	26.56	3.9	12.0	-	-							
174.1	112	2.5	16.08	5.5	12.0	-	-							
199.0	98	2.6	14.07	5.7	12.0	-	-							
221.7	88	2.9	12.63	5.8	12.0	-	-							



P₁ [kW]	n₂ [Min ⁻¹]	M₂ [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{R GR} [kN]	F_{A GR} [kN]	Tip / Type / Typ IE2 / IE3	 Kg	 mm			
2.20	73.0	276	0.8	19.19	2.3	9.0	-	-	PKD C 1290 100L4B / 100L4C	42	194-195			
	82.1	246	0.9	17.06	2.9	9.0	-	-						
	107.8	187	1.0	12.99	3.8	9.0	-	-						
	123.1	164	1.2	11.37	4.0	9.0	-	-						
	129.5	156	1.2	10.81	4.1	8.8	-	-						
	147.8	136	1.3	9.47	4.3	8.5	-	-						
	168.9	119	1.5	8.29	4.4	8.2	-	-						
	192.0	105	1.6	7.29	4.5	7.9	-	-						
	216.0	93	1.7	6.48	4.5	7.6	-	-						
	234.5	86	1.8	5.97	4.6	7.4	-	-						
	263.7	77	1.9	5.31	4.5	7.1	-	-						
	102.3	191	0.9	27.36	2.3	9.0	-	-				PKD C 1290 90L2D	32	194-195
	115.1	170	0.9	24.32	2.3	9.0	-	-						
	127.6	153	1.0	21.94	2.3	9.0	-	-						
	145.9	134	1.3	19.19	2.3	9.0	-	-						
	164.1	119	1.5	17.06	2.9	9.0	-	-						
	191.0	102	1.4	14.66	3.8	9.0	-	-						
	215.6	91	1.6	12.99	3.8	9.0	-	-						
	246.3	79	1.9	11.37	4.0	9.0	-	-						
	259.0	76	1.8	10.81	4.1	8.8	-	-						
	295.7	66	2.0	9.47	4.3	8.5	-	-						
	337.8	58	2.3	8.29	4.4	8.2	-	-						
	384.1	51	2.5	7.29	4.5	7.9	-	-						
	432.1	45	2.7	6.48	4.5	7.6	-	-						
	469.0	42	2.8	5.97	4.6	7.4	-	-						
	527.3	37	3.0	5.31	4.5	7.1	-	-						
	179.3	109	0.8	15.62	2.7	5.6	-	-	PKD B 0290 90L2D	25	190-191			
	207.7	94	1.0	13.48	2.7	5.6	-	-						
	237.5	82	1.1	11.79	2.7	5.6	-	-						
	270.5	72	1.2	10.35	2.7	5.6	-	-						
	309.1	63	1.3	9.06	2.7	5.6	-	-						
	350.0	56	1.4	8.00	2.7	5.6	-	-						
	397.2	49	1.5	7.05	2.7	5.6	-	-						
463.6	42	1.6	6.04	2.7	5.6	-	-							
524.3	37	1.7	5.34	2.7	5.6	-	-							
587.0	33	1.8	4.77	2.7	5.6	-	-							
681.3	29	2.0	4.11	2.7	5.6	-	-							
3.00	0.4	67342	0.8	2316.27	-	-	-	-				PKD G 9390/63 132S6A	1828	282
	0.4	59662	0.9	2052.10	-	-	-	-						
	0.5	51583	1.0	1774.21	-	-	-	-						
	0.4	66496	0.8	3692.48	-	-	-	-	PKD G 9390/63 100L4C / 100L4D	1798	282			
	0.4	57810	0.9	3210.12	-	-	-	-						
	0.5	48246	1.0	2679.06	-	-	-	-						
	0.6	41713	1.2	2316.27	-	-	-	-						
	0.7	36955	1.4	2052.10	-	-	-	-						
	0.8	31951	1.6	1774.21	-	-	-	-						
	0.5	46071	0.8	5575.65	-	-	-	-				PKD G 9390/63 100L2C / 100L2D	1798	272
	0.6	36699	1.0	4441.42	-	-	-	-						
	0.8	30510	1.2	3692.48	-	-	-	-						
	0.9	26525	1.4	3210.12	-	-	-	-						
	1.0	22137	1.7	2679.06	-	-	-	-						
	1.2	19139	2.0	2316.27	-	-	-	-						
	1.4	16956	2.2	2052.10	-	-	-	-						
	1.6	14660	2.6	1774.21	-	-	-	-						
	0.6	47925	1.1	1623.67	-	-	-	-	PKD G 9390/62 132S6A	1830	282			
	0.7	39961	1.3	1353.86	-	-	-	-						
	0.8	34393	1.5	1165.22	-	-	-	-						
	0.9	28906	1.8	979.31	-	-	-	-						
	1.1	24102	2.2	816.57	-	-	-	-						
	1.3	20744	2.5	702.80	-	-	-	-						
	1.5	17935	2.9	607.93	-	-	-	-						



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 / Typ IE2 / IE3	 Kg	 mm
3.00	0.9	29905	1.7	1623.67	-	-	-	-	PKD G 9390/62 100L4C / 100L4D	1800	282
	1.0	24935	2.0	1353.86	-	-	-	-			
	1.2	21461	2.3	1165.22	-	-	-	-			
	1.4	18037	2.8	979.31	-	-	-	-			
	1.7	13903	2.7	1623.67	-	-	-	-	PKD G 9390/62 100L2C / 100L2D	1800	282
	0.6	42049	0.8	1424.59	129.0	70.0	160.0	70.0	PKD 9390/52 132S6A	1530	280
	0.8	33038	1.0	1119.32	142.0	70.0	160.0	70.0			
	1.1	24971	1.3	846.00	149.0	70.0	160.0	70.0			
	1.3	20855	1.6	706.54	152.0	70.0	160.0	70.0			
	1.5	17998	1.9	609.75	154.0	70.0	160.0	70.0			
	2.0	13113	2.6	444.25	144.0	70.0	160.0	70.0			
	2.3	11400	2.9	386.23	144.0	70.0	160.0	70.0			
	0.7	38941	0.8	2114.30	-	-	-	-	PKD 9390/52 100L4C / 100L4D	1500	280
	0.8	33062	1.0	1795.13	-	-	-	-			
	1.0	26238	1.2	1424.59	129.0	70.0	160.0	70.0			
	1.3	20615	1.6	1119.32	142.0	70.0	160.0	70.0			
	1.7	15582	2.1	846.00	149.0	70.0	160.0	70.0			
	2.0	13013	2.5	706.54	152.0	70.0	160.0	70.0			
	2.3	11230	2.8	609.75	154.0	70.0	160.0	70.0			
	1.0	24947	0.8	2913.46	129.0	70.0	-	-	PKD 9390/52 100L2C / 100L2D	1500	280
	1.3	18104	1.3	2114.30	129.0	70.0	-	-			
	1.6	15371	1.6	1795.13	129.0	70.0	-	-			
	2.0	12198	2.0	1424.59	129.0	70.0	160.0	70.0			
	2.5	9584	2.5	1119.32	142.0	70.0	160.0	70.0			
	1.0	26854	0.8	909.80	102.0	65.0	120.0	65.0	PKD G 8390/52 132S6A	960	280
	1.3	21099	1.0	714.84	110.0	65.0	120.0	65.0			
	1.4	18408	1.1	623.65	113.0	65.0	120.0	65.0			
	2.1	12838	1.6	434.96	118.0	65.0	120.0	65.0			
2.4	11201	1.9	379.47	119.0	65.0	120.0	65.0				
3.3	8024	2.6	271.85	92.0	65.0	-	-				
3.8	6976	3.0	236.35	92.0	65.0	-	-				
1.2	22170	0.8	1203.73	83.0	65.0	120.0	65.0	PKD G 8390/52 100L4C / 100L4D	930	280	
1.5	16757	1.1	909.80	102.0	65.0	120.0	65.0				
2.0	13166	1.4	714.84	110.0	65.0	120.0	65.0				
2.2	11486	1.6	623.65	113.0	65.0	120.0	65.0				
3.2	8011	2.2	434.96	118.0	65.0	120.0	65.0				
3.7	6989	2.6	379.47	119.0	65.0	120.0	65.0				
1.3	18102	0.8	2114.13	83.0	65.0	-	-	PKD G 8390/52 100L2C / 100L2D	930	280	
1.6	15297	1.0	1786.51	83.0	65.0	-	-				
1.9	12529	1.2	1463.24	83.0	65.0	120.0	65.0				
2.3	10307	1.5	1203.73	83.0	65.0	120.0	65.0				
3.1	7790	2.0	909.80	102.0	65.0	120.0	65.0				
3.9	6121	2.5	714.84	110.0	65.0	120.0	65.0				
4.5	5340	2.8	623.65	113.0	65.0	120.0	65.0				
3.7	7274	1.9	246.45	95.0	60.0	95.0	60.0	PKD 8390/52 132S6A	710	280	
4.9	5381	2.5	182.32	95.0	60.0	95.0	60.0				
5.7	4539	2.9	246.45	95.0	60.0	95.0	60.0	PKD 8390/52 100L4C / 100L4D	680	280	
1.5	17796	0.8	602.92	85.0	60.0	95.0	60.0	PKD 8390/42 132S6A	685	280	
2.0	13116	1.0	444.35	91.0	60.0	95.0	60.0				
2.4	11216	1.2	379.99	92.0	60.0	95.0	60.0				
3.1	8442	1.6	286.02	94.0	60.0	95.0	60.0				
1.7	15570	0.8	845.40	73.0	60.0	95.0	60.0	PKD 8390/42 100L4C / 100L4D	655	280	
2.0	12985	1.0	705.03	80.0	60.0	95.0	60.0				
2.3	11104	1.2	602.92	85.0	60.0	95.0	60.0				
3.2	8184	1.6	444.35	91.0	60.0	95.0	60.0				
3.7	6999	1.9	379.99	92.0	60.0	95.0	60.0				
4.9	5268	2.5	286.02	94.0	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_{RGR} [kN]	F_{AGR} [kN]	Tip / Type / Typ IE2 / IE3		
3.00	1.9	12565	0.8	1467.49	73.0	60.0	95.0	60.0	PKD 8390/42 100L2C / 100L2D	655	280
	2.8	8716	1.1	1017.96	73.0	60.0	95.0	60.0			
	3.3	7239	1.4	845.40	73.0	60.0	95.0	60.0			
	4.0	6037	1.6	705.03	80.0	60.0	95.0	60.0			
	4.6	5163	1.9	602.92	85.0	60.0	95.0	60.0			
	6.3	3805	2.6	444.35	91.0	60.0	95.0	60.0			
	7.4	3254	3.0	379.99	92.0	60.0	95.0	60.0			
	3.9	7018	3.0	230.68	119.0	65.0	-	-	PKD G 8390 132S6A	884	266-267
	3.0	9026	1.5	296.68	91.0	60.0	-	-	PKD 8390 132S6A	634	262-263
	3.7	7431	1.8	244.25	91.0	60.0	-	-			
	6.0	4528	3.0	148.84	91.0	60.0	-	-			
	3.3	7953	1.1	269.43	60.0	50.0	66.0	50.0	PKD 7390/42 132S6A	425	278
	4.6	5794	1.3	196.30	63.0	50.0	66.0	50.0			
	5.7	4636	1.4	157.05	64.0	50.0	66.0	48.0			
	6.7	3964	1.6	134.31	65.0	50.0	66.0	46.0			
	5.2	4962	1.7	269.43	60.0	50.0	66.0	50.0	PKD 7390/42 100L4C / 100L4D	395	278
	7.1	3615	2.0	196.30	63.0	50.0	66.0	50.0			
	8.9	2893	2.2	157.05	64.0	50.0	66.0	48.0			
	10.4	2474	2.5	134.31	65.0	50.0	66.0	46.0			
	10.4	2307	2.8	269.43	60.0	50.0	-	-	PKD 7390/42 100L2C / 100L2D	395	278
	2.3	11356	0.8	384.74	54.0	50.0	66.0	50.0	PKD 7390/32 132S6A	408	278
	2.9	9153	1.0	310.09	59.0	50.0	66.0	50.0			
	2.3	10979	0.8	596.10	51.0	50.0	66.0	50.0	PKD 7390/32 100L4C / 100L4D	378	278
	3.0	8673	1.0	470.91	47.0	50.0	66.0	50.0			
	3.6	7086	1.2	384.74	54.0	50.0	66.0	50.0			
	4.5	5711	1.5	310.09	59.0	50.0	66.0	50.0			
	2.9	8326	0.8	972.42	51.0	50.0	66.0	50.0	PKD 7390/32 100L2C / 100L2D	378	278
	3.7	6552	1.0	765.14	51.0	50.0	66.0	50.0			
	4.7	5104	1.3	596.10	51.0	50.0	66.0	50.0			
	5.9	4032	1.6	470.91	47.0	50.0	66.0	50.0			
	7.3	3294	2.0	384.74	54.0	50.0	66.0	50.0			
	9.0	2655	2.4	310.09	59.0	50.0	66.0	50.0			
	3.7	7470	1.2	245.55	61.0	50.0	66.0	50.0			
	4.3	6297	1.4	206.98	63.0	50.0	66.0	50.0			
	4.8	5682	1.6	186.78	65.0	50.0	66.0	47.0			
	5.7	4790	1.9	157.44	65.0	50.0	66.0	46.0			
6.6	4157	1.7	136.65	65.0	50.0	66.0	49.0				
8.2	3349	2.7	110.10	64.0	50.0	66.0	47.0				
5.7	4724	1.8	245.55	61.0	50.0	66.0	50.0	PKD 7390 100L4C / 100L4D	344	258-259	
6.8	3982	2.1	206.98	63.0	50.0	66.0	50.0				
10.2	2629	2.5	136.65	65.0	50.0	66.0	49.0				
11.4	2258	2.9	245.55	61.0	50.0	66.0	50.0	PKD 7390 100L2C / 100L2D	344	258-259	
3.5	7626	1.1	258.36	61.0	50.0	66.0	50.0	PKD 6390/42 132S6A	425	278	
4.8	5556	1.4	188.23	63.0	50.0	66.0	50.0				
6.0	4445	1.5	150.60	64.0	50.0	66.0	50.0				
7.0	3801	1.7	128.79	58.0	50.0	66.0	50.0				
5.4	4758	1.7	258.36	61.0	50.0	66.0	50.0	PKD 6390/42 100L4C / 100L4D	395	278	
7.4	3467	2.1	188.23	63.0	50.0	66.0	50.0				
9.3	2774	2.2	150.60	64.0	50.0	66.0	50.0				
10.9	2372	2.5	128.79	58.0	50.0	-	-				
10.8	2212	2.8	258.36	61.0	50.0	66.0	50.0	PKD 6390/42 100L2C / 100L2D	395	278	



P_1 [kW]	n_2 [Min ⁻¹]	M_2 [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{RGR} [kN]	F_{AGR} [kN]	Tip / Type / Typ IE2 / IE3	 Kg	 mm
3.00	2.4 3.0	10889 8777	0.8 1.0	368.93 297.35	55.0 59.0	50.0 50.0	66.0 66.0	50.0 50.0	PKD 6390/32 132S6A	408	278
	2.4 3.1 3.8 4.7	10528 8317 6795 5477	0.8 1.0 1.2 1.5	571.60 451.55 368.93 297.35	52.0 49.0 55.0 59.0	50.0 50.0 50.0 50.0	66.0 66.0 66.0 66.0	50.0 50.0 50.0 50.0	PKD 6390/32 100L4C / 100L4D	378	278
	3.0 3.8 4.9 6.2 7.6 9.4	7984 6282 4894 3866 3159 2546	0.8 1.0 1.3 1.6 2.0 2.4	932.46 733.69 571.60 451.55 368.93 297.35	52.0 52.0 50.0 49.0 55.0 59.0	50.0 50.0 50.0 50.0 50.0 50.0	66.0 66.0 66.0 66.0 66.0 66.0	50.0 50.0 50.0 50.0 50.0 50.0	PKD 6390/32 100L2C / 100L2D	378	278
	3.8 4.5 5.0 6.0 7.0 8.5	7163 6031 5449 4587 3935 3212	1.2 1.4 1.6 1.9 1.8 2.7	235.45 198.23 179.11 150.79 129.36 105.58	61.0 63.0 64.0 64.0 64.0 61.0	50.0 50.0 50.0 50.0 50.0 50.0	66.0 66.0 66.0 66.0 66.0 66.0	50.0 50.0 50.0 50.0 50.0 50.0	PKD 6390 132S6A	374	254-255
	5.9 7.1 10.8	4529 3813 2488	1.8 2.2 2.7	235.45 198.23 129.36	61.0 63.0 64.0	50.0 50.0 50.0	66.0 66.0 66.0	50.0 50.0 50.0	PKD 6390 100L4C / 100L4D	344	254-255
	11.9	2165	2.9	235.45	61.0	50.0	66.0	50.0	PKD 6390 100L2C / 100L2D	344	254-255
	5.3 6.1 8.5	4982 4311 3107	1.0 1.1 1.5	264.64 228.99 165.02	36.0 18.0 38.0	45.0 45.0 45.0	38.0 38.0 38.0	45.0 45.0 44.0	PKD 5490 100L4C / 100L4D	222	250-251
	8.0 10.6 12.2 17.0	3095 2348 2032 1464	1.2 1.6 1.8 2.5	348.85 264.64 228.99 165.02	36.0 36.0 18.0 38.0	45.0 45.0 45.0 45.0	38.0 38.0 38.0 38.0	45.0 45.0 45.0 45.0	PKD 5490 100L2C / 100L2D	222	250-251
	4.5 5.3 7.5 8.8 10.2 12.5 14.4 16.5	6035 5154 3651 3118 2681 2196 1900 1660	0.8 1.0 1.4 1.6 1.9 2.3 2.7 3.0	198.37 169.43 120.01 102.50 88.12 72.18 62.45 54.55	31.0 34.0 36.0 35.0 37.0 31.0 31.0 31.0	45.0 45.0 45.0 45.0 45.0 45.0 45.0 45.0	38.0 38.0 38.0 38.0 38.0 38.0 38.0 38.0	42.0 41.0 38.0 37.0 36.0 34.0 32.0 31.0	PKD 5390 132S6A	234	246-247
	4.8 5.7 7.1 8.3 9.6 11.7 13.7 15.9	5571 4758 3816 3259 2795 2309 1972 1695	0.9 1.0 1.3 1.5 1.7 2.1 2.4 2.8	289.62 247.36 198.37 169.43 145.30 120.01 102.50 88.12	20.0 26.0 31.0 34.0 35.0 36.0 35.0 37.0	45.0 45.0 45.0 45.0 45.0 45.0 45.0 45.0	38.0 38.0 38.0 38.0 38.0 38.0 38.0 38.0	43.0 43.0 42.0 41.0 40.0 38.0 37.0 36.0	PKD 5390 100L4C / 100L4D	204	246-247
	9.7 11.3 14.1 16.5 19.3	2663 2274 1824 1558 1336	1.4 1.6 2.0 2.3 2.0	289.62 247.36 198.37 169.43 145.30	20.0 26.0 31.0 34.0 35.0	45.0 45.0 45.0 45.0 45.0	38.0 38.0 38.0 38.0 38.0	43.0 43.0 42.0 41.0 40.0	PKD 5390 100L2C / 100L2D	204	246-247
	8.1	3240	0.9	172.07	17.0	40.0	28.0	20.0	PKD 4490 100L4C / 100L4D	144	242-243
	10.0 13.7 16.3	2475 1811 1527	0.9 1.2 1.4	278.98 204.13 172.07	17.0 17.0 17.0	40.0 40.0 40.0	- - 28.0	- - 20.0	PKD 4490 100L2C / 100L2D	144	242-243



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 / Typ IE2 / IE3	Kg	mm		
3.00	9.4	2907	1.0	95.57	25.0	40.0	28.0	21.0	PKD 4390 132S6A	159	238-239		
	10.4	2632	1.1	86.50	26.0	40.0	28.0	21.0					
	11.8	2315	1.3	76.08	27.0	40.0	28.0	20.0					
	13.1	2085	1.4	68.52	27.0	40.0	28.0	20.0					
	14.2	1923	1.5	63.21	27.0	40.0	28.0	20.0					
	16.2	1694	1.7	55.67	27.0	40.0	28.0	20.0					
	18.9	1448	2.0	47.61	17.0	40.0	28.0	19.0					
	22.2	1234	2.4	40.56	17.0	40.0	28.0	19.0					
	26.2	1046	2.8	34.38	17.0	40.0	28.0	18.0					
	8.8	3076	0.9	159.93	19.0	40.0	28.0	20.0				PKD 4390 100L4C / 100L4D	129
10.5	2556	1.1	132.86	23.0	40.0	28.0	20.0						
11.9	2266	1.1	117.81	24.0	40.0	28.0	21.0						
14.6	1838	1.5	95.57	25.0	40.0	28.0	21.0						
16.2	1664	1.7	86.50	26.0	40.0	28.0	21.0						
18.4	1464	1.9	76.08	27.0	40.0	28.0	20.0						
20.4	1318	2.1	68.52	27.0	40.0	28.0	20.0						
22.1	1216	2.3	63.21	27.0	40.0	28.0	20.0						
25.1	1071	2.6	55.67	27.0	40.0	28.0	20.0						
11.9	2159	1.0	234.83	19.0	40.0	28.0	23.0	PKD 4390 100L2C / 100L2D	129	238-239			
14.4	1794	1.2	195.09	19.0	40.0	28.0	23.0						
17.5	1471	1.4	159.93	19.0	40.0	28.0	20.0						
21.1	1222	1.7	132.86	23.0	40.0	28.0	20.0						
23.8	1083	1.7	117.81	24.0	40.0	28.0	21.0						
29.3	879	2.4	95.57	25.0	40.0	28.0	21.0						
32.4	795	2.7	86.50	26.0	40.0	28.0	21.0						
36.8	700	3.0	76.08	27.0	40.0	28.0	20.0						
15.2	1799	0.9	59.15	9.0	15.0	15.0	10.0	PKD 3390 132S6A	112	230-231			
18.0	1519	1.1	49.94	9.0	15.0	15.0	10.0						
18.9	1450	1.1	47.67	9.0	15.0	15.0	11.0						
22.3	1228	1.3	40.37	9.0	15.0	15.0	10.0						
25.2	1085	1.5	35.65	9.0	15.0	15.0	10.0						
30.3	903	1.7	29.67	9.0	14.0	15.0	10.0						
35.9	762	2.1	25.06	7.0	15.0	15.0	10.0						
37.6	728	2.2	23.92	7.0	15.0	15.0	10.0						
44.4	616	2.6	20.25	7.0	15.0	15.0	10.0						
52.6	520	2.9	17.10	7.0	15.0	15.0	9.0						
71.0	386	2.7	12.68	7.0	15.0	15.0	9.0						
83.8	327	2.9	10.74	7.0	15.0	15.0	8.0						
14.9	1802	0.9	93.67	1.0	14.0	13.0	10.0				PKD 3390 100L4C / 100L4D	82	230-231
16.6	1619	1.0	84.16	5.0	15.0	15.0	10.0						
18.4	1460	1.1	75.92	8.0	15.0	15.0	10.0						
21.8	1233	1.3	64.11	9.0	15.0	15.0	10.0						
23.7	1138	1.4	59.15	9.0	15.0	15.0	10.0						
28.0	961	1.6	49.94	9.0	15.0	15.0	10.0						
29.4	917	1.7	47.67	9.0	15.0	15.0	11.0						
34.7	777	2.0	40.37	9.0	15.0	15.0	10.0						
36.8	733	2.1	38.09	9.0	15.0	15.0	10.0						
39.3	686	2.3	35.65	9.0	15.0	15.0	10.0						
47.2	571	2.6	29.67	9.0	14.0	15.0	10.0						
17.6	1461	0.8	158.92	1.0	14.0	15.0	14.0	PKD 3390 100L2C / 100L2D	82	230-231			
25.2	1020	1.2	110.94	1.0	14.0	15.0	12.0						
29.9	861	1.4	93.67	1.0	14.0	13.0	10.0						
33.3	774	1.5	84.16	5.0	15.0	15.0	10.0						
36.9	698	1.7	75.92	8.0	15.0	15.0	10.0						
43.7	589	2.0	64.11	9.0	15.0	15.0	10.0						
47.3	544	2.2	59.15	9.0	15.0	15.0	10.0						
56.1	459	2.6	49.94	9.0	15.0	15.0	10.0						
58.7	438	2.7	47.67	9.0	15.0	15.0	11.0						



P₁ [kW]	n₂ [Min ⁻¹]	M₂ [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{R GR} [kN]	F_{A GR} [kN]	Tip / Type / Typ IE2 / IE3		
3.00	24.0	1120	0.8	58.24	2.0	12.0	9.0	11.0	PKD 2390 100L4C / 100L4D	62	222-223
	26.9	1002	0.9	52.11	0.3	12.0	6.0	10.0			
	28.6	942	0.9	48.99	0.3	12.0	7.0	10.0			
	31.3	862	1.0	44.80	0.4	12.0	9.0	10.0			
	35.3	764	1.1	39.70	4.0	12.0	10.0	10.0			
	42.1	640	1.3	33.28	6.0	12.0	11.0	10.0			
	44.5	605	1.4	31.43	6.0	12.0	11.0	10.0			
	47.9	562	1.5	29.22	7.0	12.0	11.0	10.0			
	53.6	503	1.7	26.14	8.0	12.0	12.0	10.0			
	57.0	473	1.8	24.58	8.0	12.0	12.0	10.0			
	62.3	432	1.8	22.48	8.0	12.0	12.0	10.0			
	70.3	383	2.0	19.92	8.0	12.0	12.0	10.0			
	79.9	337	2.1	17.52	7.0	12.0	12.0	9.0			
	85.9	313	2.0	16.29	7.0	12.0	12.0	9.0			
	96.0	280	2.1	14.58	7.0	12.0	12.0	9.0			
	111.7	241	2.2	12.53	7.0	11.0	12.0	9.0	PKD 2390 100L2C / 100L2D	62	222-223
	126.0	214	2.4	11.11	7.0	11.0	12.0	9.0			
	159.3	169	2.8	8.79	6.0	10.0	12.0	8.0			
	35.5	725	0.9	78.85	2.0	12.0	10.0	13.0			
	42.1	611	1.1	66.47	2.0	12.0	8.0	11.0			
	48.1	536	1.2	58.24	2.0	12.0	9.0	11.0			
	53.7	479	1.4	52.11	3.0	12.0	6.0	10.0			
	57.2	450	1.5	48.99	3.0	12.0	7.0	10.0			
	62.5	412	1.6	44.80	4.0	12.0	9.0	10.0			
	70.5	365	1.8	39.70	4.0	12.0	10.0	10.0			
	84.1	306	2.1	33.28	6.0	12.0	11.0	10.0			
	89.1	289	2.2	31.43	6.0	12.0	11.0	10.0			
	95.8	269	2.4	29.22	7.0	12.0	11.0	10.0			
	107.1	240	2.7	26.14	8.0	12.0	12.0	10.0			
	113.9	226	2.9	24.58	8.0	12.0	12.0	10.0			
124.6	207	2.9	22.48	8.0	12.0	12.0	10.0				
	34.3	786	0.8	40.87	7.0	18.0	9.0	18.0	PKD G 1390 100L4C / 100L4D	55	214-215
	40.2	671	0.9	34.86	6.0	16.0	9.0	16.0			
	46.0	586	1.0	30.44	7.0	16.0	9.0	16.0			
	53.2	506	1.2	26.30	8.0	16.0	9.0	16.0			
	60.4	446	1.2	23.16	8.0	16.0	9.0	16.0			
	68.3	395	1.5	20.51	9.0	16.0	9.0	16.0			
	80.0	336	1.6	17.49	9.0	15.0	9.0	15.0			
	91.7	294	1.8	15.27	9.0	15.0	9.0	15.0			
	112.1	240	2.2	12.49	9.0	15.0	9.0	15.0			
		43.7	589	0.8	64.06	7.0	18.0	9.0			
53.4		482	1.0	52.42	7.0	18.0	9.0	19.0			
60.7		424	1.1	46.16	7.0	18.0	9.0	18.0			
68.5		376	1.2	40.87	7.0	18.0	8.0	18.0			
80.3		321	1.4	34.86	6.0	16.0	9.0	18.0			
92.0		280	1.6	30.44	7.0	16.0	9.0	18.0			
106.5		242	1.9	26.30	8.0	16.0	9.0	18.0			
120.9		213	1.9	23.16	8.0	16.0	9.0	17.0			
136.5		189	2.3	20.51	9.0	16.0	9.0	17.0			
160.1		161	2.6	17.49	9.0	15.0	9.0	16.0			
	183.4	140	2.8	15.27	9.0	15.0	9.0	16.0	PKD 1390 100L4C / 100L4D	54	206-207
	50.5	533	0.8	27.72	5.0	18.0	9.0	18.0			
	57.0	472	0.8	24.55	3.0	16.0	8.0	16.0			
	66.9	403	1.0	20.93	5.0	16.0	8.0	16.0			
	80.0	336	1.1	17.49	6.0	15.0	9.0	15.0			
	91.7	294	1.3	15.27	6.0	15.0	9.0	15.0			
	114.1	236	0.9	12.27	7.0	14.0	9.0	14.0			
	128.9	209	1.0	10.86	7.0	14.0	9.0	14.0			
	151.2	178	1.1	9.26	7.0	14.0	9.0	14.0			
	173.1	156	1.2	8.09	7.0	13.0	9.0	13.0			



P₁ [kW]	n₂ [Min ⁻¹]	M₂ [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{R GR} [kN]	F_{A GR} [kN]	Tip / Type / Typ IE2 / IE3		
3.00	67.1	384	0.8	41.72	5.0	18.0	8.0	20.0	PKD 1390 100L2C / 100L2D	54	206-207
	80.3	321	0.9	34.86	5.0	18.0	8.0	18.0			
	88.9	289	1.1	31.48	5.0	18.0	8.0	18.0			
	101.0	255	1.2	27.72	5.0	18.0	9.0	18.0			
	114.1	226	1.3	24.55	3.0	16.0	8.0	16.0			
	133.8	192	1.6	20.93	5.0	16.0	8.0	16.0			
	160.1	161	1.8	17.49	6.0	15.0	9.0	15.0			
	183.4	140	2.1	15.27	6.0	15.0	9.0	15.0			
	228.2	113	1.5	12.27	7.0	14.0	9.0	14.0			
	257.8	100	1.5	10.86	7.0	14.0	9.0	14.0			
302.4	85	1.7	9.26	7.0	14.0	9.0	14.0				
346.1	74	1.8	8.09	7.0	13.0	9.0	13.0				
	35.5	784	0.9	25.37	6.3	12.0	-	-	PKD H 5290 132S6A	93	202-203
	40.5	686	0.9	22.20	6.9	12.0	-	-			
	45.6	609	1.0	19.73	7.2	12.0	-	-			
	50.4	551	1.1	17.84	7.4	12.0	-	-			
	57.7	482	1.3	15.61	7.5	12.0	-	-			
	64.8	429	1.3	13.88	7.4	12.0	-	-			
	72.6	383	1.4	12.40	7.2	12.0	-	-			
	82.9	335	1.6	10.85	7.0	11.6	-	-			
	93.4	298	1.7	9.64	6.8	11.2	-	-			
	105.1	264	2.0	8.56	6.6	10.7	-	-			
	118.6	234	2.1	7.59	6.1	12.0	-	-			
	140.2	198	2.4	6.42	6.1	12.0	-	-			
	147.3	189	2.3	6.11	6.1	12.0	-	-			
	165.7	168	2.7	5.43	6.1	12.0	-	-			
	187.5	148	2.9	4.80	6.1	12.0	-	-			
	38.3	719	0.9	36.59	3.2	12.0	-	-	PKD H 5290 100L4C / 100L4D	63	202-203
	43.7	629	1.0	32.02	4.8	12.0	-	-			
	49.2	559	1.1	28.46	5.8	12.0	-	-			
	55.2	498	1.3	25.37	6.3	12.0	-	-			
	63.1	436	1.4	22.20	6.9	12.0	-	-			
	71.0	388	1.5	19.73	7.2	12.0	-	-			
	78.5	350	1.7	17.84	7.4	12.0	-	-			
	89.7	307	1.9	15.61	7.5	12.0	-	-			
	100.9	273	2.0	13.88	7.4	12.0	-	-			
	112.9	244	2.1	12.40	7.2	12.0	-	-			
	129.0	213	2.4	10.85	7.0	11.6	-	-			
	145.2	189	2.6	9.64	6.8	11.2	-	-			
	163.6	168	2.9	8.56	6.6	10.7	-	-			
	76.5	349	1.4	36.59	3.2	12.0	-	-	PKD H 5290 100L2C / 100L2D	63	202-203
	87.4	305	1.6	32.02	4.8	12.0	-	-			
	98.4	271	1.7	28.46	5.8	12.0	-	-			
	110.4	242	2.0	25.37	6.3	12.0	-	-			
	126.1	212	2.2	22.20	6.9	12.0	-	-			
	141.9	188	2.4	19.73	7.2	12.0	-	-			
	157.0	170	2.6	17.84	7.4	12.0	-	-			
	179.4	149	3.0	15.61	7.5	12.0	-	-			
	56.0	497	0.8	16.08	4.7	12.0	-	-	PKD F 4290 132S6A	81	198-199
	64.0	435	0.8	14.07	5.1	12.0	-	-			
	71.3	390	0.9	12.63	5.3	11.7	-	-			
	82.0	339	1.0	10.98	5.5	11.2	-	-			
	92.2	301	1.1	9.76	5.7	10.8	-	-			
	103.8	268	1.3	8.67	5.8	10.4	-	-			
	116.7	238	1.4	7.71	5.9	10.0	-	-			
	132.4	210	1.5	6.80	6.0	9.6	-	-			
	152.0	183	1.6	5.92	6.0	9.2	-	-			
	165.1	168	1.7	5.45	1.8	12.0	-	-			
	185.6	150	1.9	4.85	1.8	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 / Typ IE2 / IE3					
3.00	60.2	457	0.8	23.26	2.1	12.0	-	-	PKD F 4290 100L4C / 100L4D	51	198-199			
	68.8	400	0.9	20.35	3.5	12.0	-	-						
	77.4	355	0.9	18.09	4.2	12.0	-	-						
	87.1	316	1.2	16.08	4.7	12.0	-	-						
	99.5	276	1.2	14.07	5.1	12.0	-	-						
	110.8	248	1.4	12.63	5.3	11.7	-	-						
	127.5	216	1.6	10.98	5.5	11.2	-	-						
	143.4	192	1.7	9.76	5.7	10.8	-	-						
	161.5	170	1.9	8.67	5.8	10.4	-	-						
	181.6	151	2.0	7.71	5.9	10.0	-	-						
	205.9	134	2.2	6.80	6.0	9.6	-	-						
	236.5	116	2.4	5.92	6.0	9.2	-	-						
	82.0	325	0.9	34.15	2.1	12.0	-	-				PKD F 4290 100L2C / 100L2D	51	198-199
	93.7	285	0.9	29.88	2.1	12.0	-	-						
	105.4	253	1.0	26.56	2.1	12.0	-	-						
	120.4	222	1.3	23.26	2.1	12.0	-	-						
	137.6	194	1.3	20.35	3.5	12.0	-	-						
	154.8	172	1.4	18.09	4.2	12.0	-	-						
	174.1	153	1.8	16.08	4.7	12.0	-	-						
	199.0	134	1.9	14.07	5.1	12.0	-	-						
	221.7	120	2.1	12.63	5.3	11.7	-	-						
	255.0	105	2.4	10.98	5.5	11.2	-	-						
	286.9	93	2.6	9.76	5.7	10.8	-	-						
	323.0	83	2.9	8.67	5.8	10.4	-	-						
	107.8	255	0.8	12.99	3.8	9.0	-	-	PKD C 1290 100L4C / 100L4D	42	194-195			
	123.1	223	0.9	11.37	3.3	8.2	-	-						
	129.5	212	0.8	10.81	3.4	8.1	-	-						
	147.8	186	0.9	9.47	3.8	7.9	-	-						
	168.9	163	1.1	8.29	4.0	7.7	-	-						
	192.0	143	1.2	7.29	4.2	7.4	-	-						
	216.0	127	1.3	6.48	4.3	7.2	-	-						
	234.5	117	1.3	5.97	4.4	7.0	-	-						
	263.7	104	1.4	5.31	4.3	6.8	-	-						
	145.9	183	1.0	19.19	3.8	9.0	-	-	PKD C 1290 100L2C / 100L2D	42	194-195			
	164.1	163	1.1	17.06	3.8	9.0	-	-						
	215.6	124	1.2	12.99	3.8	9.0	-	-						
246.3	108	1.4	11.37	3.3	8.2	-	-							
259.0	103	1.3	10.81	3.4	8.1	-	-							
295.7	90	1.5	9.47	3.8	7.9	-	-							
337.8	79	1.7	8.29	4.0	7.7	-	-							
384.1	69	1.8	7.29	4.2	7.4	-	-							
432.1	62	2.0	6.48	4.3	7.2	-	-							
469.0	57	2.1	5.97	4.4	7.0	-	-							
527.3	51	2.2	5.31	4.3	6.8	-	-							
4.00	0.5	68777	0.8	1774.21	-	-	-	-				PKD G 9390/63 132M6A	1828	282
	0.5	64328	0.8	2679.06	-	-	-	-	PKD G 9390/63 112M4C / 112M4D	1806	282			
	0.6	55617	0.9	2316.27	-	-	-	-						
	0.7	49274	1.0	2052.10	-	-	-	-						
	0.8	42601	1.2	1774.21	-	-	-	-						
	0.6	48932	0.8	4441.42	-	-	-	-	PKD G 9390/63 112M2B / 112M2C	1806	282			
	0.8	40681	0.9	3692.48	-	-	-	-						
	0.9	35366	1.1	3210.12	-	-	-	-						
	1.0	29516	1.3	2679.06	-	-	-	-						
	1.2	25519	1.5	2316.27	-	-	-	-						
	1.4	22608	1.7	2052.10	-	-	-	-						
	1.6	19547	1.9	1774.21	-	-	-	-						
	0.6	63900	0.8	1623.67	-	-	-	-	PKD G 9390/62 132M6A	1830	282			
	0.7	53281	1.0	1353.86	-	-	-	-						
	0.8	45857	1.1	1165.22	-	-	-	-						
	0.9	38541	1.4	979.31	-	-	-	-						
	1.1	32136	1.6	816.57	-	-	-	-						
	1.3	27659	1.9	702.80	-	-	-	-						
	1.5	23913	2.2	607.63	-	-	-	-						
	1.7	21186	2.5	538.33	-	-	-	-						
1.9	18663	2.8	474.22	-	-	-	-							



P_1 [kW]	n_2 [Min ⁻¹]	M_2 [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{RGR} [kN]	F_{AGR} [kN]	Tip / Type / Typ IE2 / IE3		
4.00	0.9	39873	1.3	1623.67	-	-	-	-	PKD G 9390/62 112M4C / 112M4D	1808	282
	1.0	33247	1.5	1353.86	-	-	-	-			
	1.2	28614	1.7	1165.22	-	-	-	-			
	1.4	24049	2.1	979.31	-	-	-	-			
	1.7	20053	2.5	816.57	-	-	-	-			
	2.0	17259	2.9	702.80	-	-	-	-			
	1.7	18537	2.0	1623.67	-	-	-	-	PKD G 9390/62 112M2B / 112M2C	1808	282
	2.1	15457	2.5	1353.86	-	-	-	-			
	2.4	13303	2.9	1165.22	-	-	-	-			
	0.8	44051	0.8	1119.32	128.0	70.0	160.0	70.0	PKD 9390/52 132M6A	1530	280
	1.1	33294	1.0	846.00	142.0	70.0	160.0	70.0			
	1.3	27806	1.2	706.54	147.0	70.0	160.0	70.0			
	1.5	23997	1.4	609.75	150.0	70.0	160.0	70.0			
	2.0	17484	1.9	444.25	154.0	70.0	160.0	70.0			
	2.3	15200	2.2	386.23	129.0	70.0	160.0	70.0			
	3.2	11075	3.0	281.40	129.0	70.0	160.0	70.0			
	1.0	34984	0.9	1424.59	102.0	70.0	160.0	70.0	PKD 9390/52 112M4C / 112M4D	1508	280
	1.3	27487	1.2	1119.32	128.0	70.0	160.0	70.0			
	1.7	20775	1.5	846.00	142.0	70.0	160.0	70.0			
	2.0	17351	1.8	706.54	147.0	70.0	160.0	70.0			
	2.3	14974	2.1	609.75	150.0	70.0	160.0	70.0			
	3.2	10910	2.9	444.25	154.0	70.0	160.0	70.0			
	1.3	24138	1.0	2114.30	102.0	70.0	-	-	PKD 9390/52 112M2B / 112M2C	1508	280
	1.6	20495	1.2	1795.13	102.0	70.0	-	-			
	2.0	16264	1.5	1424.59	102.0	70.0	160.0	70.0			
	2.5	12779	1.9	1119.32	128.0	70.0	160.0	70.0			
	3.3	9659	2.5	846.00	142.0	70.0	160.0	70.0			
	4.0	8066	3.0	706.54	147.0	70.0	160.0	70.0			
	3.0	12079	2.8	297.79	143.0	70.0	-	-			
	1.4	24544	0.9	623.65	106.0	65.0	120.0	65.0	PKD G 8390/52 132M6A	960	280
	2.1	17118	1.2	434.96	115.0	65.0	120.0	65.0			
	2.4	14934	1.4	379.47	117.0	65.0	120.0	65.0			
	3.3	10699	2.0	271.85	120.0	65.0	120.0	65.0			
	3.8	9302	2.3	236.35	83.0	65.0	120.0	65.0			
	1.5	22342	0.8	909.80	83.0	65.0	120.0	65.0	PKD G 8390/52 112M4C / 112M4D	938	280
	2.0	17554	1.0	714.84	99.0	65.0	120.0	65.0			
	2.2	15315	1.2	623.65	106.0	65.0	120.0	65.0			
	3.2	10681	1.7	434.96	115.0	65.0	120.0	65.0			
	3.7	9319	1.9	379.47	117.0	65.0	120.0	65.0			
	5.1	6676	2.7	271.85	120.0	65.0	120.0	65.0			
	1.9	16705	0.9	1463.24	83.0	65.0	120.0	65.0	PKD G 8390/52 112M2B / 112M2C	938	280
	2.3	13743	1.1	1203.73	83.0	65.0	120.0	65.0			
3.1	10387	1.5	909.80	83.0	65.0	120.0	65.0				
3.9	8161	1.9	714.84	99.0	65.0	120.0	65.0				
4.5	7120	2.1	623.65	106.0	65.0	120.0	65.0				
3.7	9699	1.4	246.45	94.0	60.0	95.0	60.0	PKD 8390/52 132M6A	710	280	
4.9	7175	1.9	182.32	95.0	60.0	95.0	60.0				
6.1	5760	2.4	146.35	95.0	60.0	95.0	60.0				
7.3	4866	2.6	123.64	95.0	60.0	95.0	60.0				
5.7	6052	2.1	246.45	94.0	60.0	95.0	60.0	PKD 8390/52 112M4C / 112M4D	688	280	
7.7	4477	2.9	182.32	95.0	60.0	95.0	60.0				
2.0	17487	0.8	444.35	86.0	60.0	95.0	60.0	PKD 8390/42 132M6A	685	280	
2.4	14955	0.9	379.99	89.0	60.0	95.0	60.0				
3.1	11256	1.2	286.02	93.0	60.0	95.0	60.0				
2.0	17314	0.8	705.03	80.0	60.0	95.0	60.0	PKD 8390/42 112M4C / 112M4D	663	280	
2.3	14806	0.9	602.92	76.0	60.0	95.0	60.0				
3.2	10912	1.2	444.35	86.0	60.0	95.0	60.0				
3.7	9331	1.4	379.99	89.0	60.0	95.0	60.0				
4.9	7024	1.9	286.02	93.0	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_{RGR} [kN]	F_{AGR} [kN]	Tip / Type / Typ IE2 / IE3		
4.00	2.8	11622	0.9	1017.96	80.0	60.0	95.0	60.0	PKD 8390/42 112M2B / 112M2C	663	280
	3.3	9652	1.0	845.40	80.0	60.0	95.0	60.0			
	4.0	8049	1.2	705.03	80.0	60.0	95.0	60.0			
	4.6	6883	1.4	602.92	76.0	60.0	95.0	60.0			
	6.3	5073	1.9	444.35	86.0	60.0	95.0	60.0			
	7.4	4338	2.3	379.99	89.0	60.0	95.0	60.0			
	9.8	3265	3.0	286.02	93.0	60.0	95.0	60.0			
	3.9	9357	2.2	230.68	119.0	65.0	120.0	65.0	PKD G 8390 132M6A	884	266-267
	4.6	7871	2.7	194.04	119.0	65.0	120.0	65.0			
	3.0	12034	1.1	296.68	91.0	60.0	95.0	60.0	PKD 8390 132M6A	634	262-263
	3.7	9908	1.4	244.25	91.0	60.0	95.0	60.0			
	6.0	6037	2.3	148.84	91.0	60.0	95.0	60.0			
	7.3	4971	2.7	122.54	91.0	60.0	95.0	60.0			
	7.7	4728	2.9	116.55	91.0	60.0	95.0	60.0			
	3.3	10603	0.8	269.43	56.0	50.0	66.0	50.0	PKD 7390/42 132M6A	425	278
	4.6	7725	1.0	196.30	61.0	50.0	66.0	48.0			
	5.7	6181	1.1	157.05	63.0	50.0	66.0	46.0			
	6.7	5286	1.2	134.31	58.0	50.0	66.0	39.0			
	5.2	6616	1.3	269.43	56.0	50.0	66.0	50.0	PKD 7390/42 112M4C / 112M4D	403	278
	7.1	4821	1.5	196.30	61.0	50.0	66.0	48.0			
	8.9	3857	1.7	157.05	63.0	50.0	66.0	46.0			
	10.4	3298	1.9	134.31	58.0	50.0	66.0	46.0			
	10.4	3076	2.1	269.43	56.0	50.0	66.0	50.0	PKD 7390/42 112M2B / 112M2C	403	278
	14.3	2241	2.5	196.30	61.0	50.0	66.0	48.0			
	17.8	1793	2.7	157.05	63.0	50.0	66.0	46.0			
	3.6	9448	0.9	384.74	44.0	50.0	66.0	50.0	PKD 7390/32 112M4C / 112M4D	386	278
	4.5	7615	1.1	310.09	53.0	50.0	66.0	50.0			
	4.7	6806	0.9	596.10	44.0	50.0	66.0	50.0	PKD 7390/32 112M2B / 112M2C	386	278
	5.9	5376	1.2	470.91	44.0	50.0	66.0	50.0			
	7.3	4392	1.5	384.74	44.0	50.0	66.0	50.0			
	9.0	3540	1.8	310.09	53.0	50.0	66.0	50.0			
	3.7	9960	0.9	245.55	58.0	50.0	66.0	50.0	PKD 7390 132M6A	374	258-259
	4.3	8396	1.1	206.98	60.0	50.0	66.0	50.0			
	4.8	7576	1.2	186.78	64.0	50.0	66.0	47.0			
	5.7	6386	1.4	157.44	64.0	50.0	66.0	46.0			
	6.6	5543	1.3	136.65	64.0	50.0	66.0	47.0			
8.2	4466	2.0	110.10	64.0	50.0	66.0	46.0				
9.8	3709	2.4	91.45	61.0	50.0	66.0	44.0				
11.3	3229	2.8	79.61	61.0	50.0	66.0	41.0				
5.7	6298	1.3	245.55	58.0	50.0	66.0	50.0	PKD 7390 112M4C / 112M4D			
6.8	5309	1.6	206.98	60.0	50.0	66.0	50.0				
10.2	3505	1.9	136.65	64.0	50.0	66.0	47.0				
12.7	2824	3.0	110.10	64.0	50.0	66.0	46.0				
11.4	3010	2.1	245.55	58.0	50.0	66.0	50.0	PKD 7390 112M2B / 112M2C	352	258-259	
13.5	2538	2.5	206.98	60.0	50.0	66.0	50.0				
20.5	1675	3.0	136.65	64.0	50.0	66.0	47.0				
3.5	10168	0.8	258.36	57.0	50.0	66.0	50.0	PKD 6390/42 132M6A	425	278	
4.8	7408	1.0	188.23	61.0	50.0	66.0	50.0				
6.0	5927	1.1	150.60	63.0	50.0	66.0	50.0				
7.0	5069	1.2	128.79	58.0	50.0	66.0	44.0				
5.4	6345	1.3	258.36	57.0	50.0	66.0	50.0	PKD 6390/42 112M4C / 112M4D	403	278	
7.4	4622	1.6	188.23	61.0	50.0	66.0	50.0				
9.3	3698	1.7	150.60	63.0	50.0	66.0	50.0				
10.9	3163	1.9	128.79	58.0	50.0	66.0	44.0				
10.8	2950	2.1	258.36	57.0	50.0	66.0	50.0	PKD 6390/42 112M2B / 112M2C	403	278	
14.9	2149	2.5	188.23	61.0	50.0	66.0	50.0				
18.6	1719	2.7	150.60	63.0	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 / Typ IE2 / IE3		
4.00	3.8 4.7	9060 7302	0.9 1.1	368.93 297.35	47.0 54.0	50.0 50.0	66.0 66.0	50.0 50.0	PKD 6390/32 112M4C / 112M4D	386	278
	4.9 6.2 7.6 9.4	6526 5155 4212 3395	1.0 1.2 1.5 1.8	571.60 451.55 368.93 297.35	47.0 47.0 47.0 54.0	50.0 50.0 50.0 50.0	66.0 66.0 66.0 66.0	50.0 50.0 50.0 50.0	PKD 6390/32 112M2B / 112M2C	386	278
	3.8 4.5 5.0 6.0 7.0 8.5 10.3 11.8	9551 8041 7265 6116 5247 4283 3557 3096	0.9 1.1 1.2 1.4 1.3 2.0 2.4 2.8	235.45 198.23 179.11 150.79 129.36 105.58 87.70 76.33	58.0 61.0 63.0 63.0 63.0 64.0 61.0 61.0	50.0 50.0 50.0 50.0 50.0 50.0 50.0 50.0	66.0 66.0 66.0 66.0 66.0 66.0 66.0 66.0	50.0 50.0 50.0 50.0 50.0 50.0 46.0 45.0	PKD 6390 132M6A	374	254-255
	5.9 7.1 10.8 13.3	6039 5084 3318 2708	1.4 1.6 2.0 3.0	235.45 198.23 129.36 105.58	58.0 61.0 63.0 64.0	50.0 50.0 50.0 50.0	66.0 66.0 66.0 66.0	50.0 50.0 50.0 50.0	PKD 6390 112M4C / 112M4D	352	254-255
	11.9	2887	2.2	235.45	58.0	50.0	66.0	50.0	PKD 6390 112M2B / 112M2C	352	254-255
	6.1 8.5	5748 4142	0.8 1.2	228.99 165.02	18.0 38.0	45.0 45.0	38.0 -	39.0 -	PKD 5490 112M4C / 112M4D	230	250-251
	8.0 10.6 12.2 17.0	4127 3131 2709 1952	0.9 1.2 1.3 1.9	348.85 264.64 228.99 165.02	18.0 18.0 18.0 38.0	45.0 45.0 45.0 45.0	38.0 - 38.0 -	45.0 - 39.0 -	PKD 5490 112M2B / 112M2C	230	250-251
	7.5 8.8 10.2 12.5 14.4 16.5 20.0	4868 4158 3574 2928 2533 2213 1825	1.0 1.2 1.4 1.7 2.0 2.3 2.8	120.01 102.50 88.12 72.18 62.45 54.55 45.00	34.0 36.0 36.0 37.0 38.0 20.0 20.0	45.0 45.0 45.0 45.0 45.0 45.0 45.0	38.0 38.0 38.0 38.0 38.0 38.0 38.0	36.0 35.0 34.0 33.0 32.0 31.0 29.0	PKD 5390 132M6A	234	246-247
	5.7 7.1 8.3 9.6 11.7 13.7 15.9 19.4 22.4	6344 5088 4346 3727 3078 2629 2260 1851 1602	0.8 0.9 1.1 1.3 1.6 1.8 2.1 2.6 3.0	247.36 198.37 169.43 145.30 120.01 102.50 88.12 72.18 62.45	26.0 25.0 29.0 32.0 34.0 36.0 36.0 37.0 38.0	45.0 45.0 45.0 45.0 45.0 45.0 45.0 45.0 45.0	38.0 38.0 38.0 38.0 38.0 38.0 38.0 38.0 38.0	43.0 39.0 38.0 37.0 36.0 35.0 34.0 33.0 32.0	PKD 5390 112M4C / 112M4D	212	246-247
	9.7 11.3 14.1 16.5 19.3 23.3 27.3	3551 3033 2432 2077 1781 1471 1257	1.0 1.2 1.5 1.8 1.5 2.5 2.9	289.62 247.36 198.37 169.43 145.30 120.01 102.50	26.0 26.0 25.0 29.0 32.0 34.0 36.0	45.0 45.0 45.0 45.0 45.0 45.0 45.0	38.0 38.0 38.0 38.0 38.0 38.0 38.0	43.0 43.0 39.0 38.0 37.0 36.0 35.0	PKD 5390 112M2B / 112M2C	212	246-247
	13.7 16.3	2415 2036	0.9 1.0	204.13 172.07	17.0 17.0	40.0 40.0	- 28.0	- 20.0	PKD 4490 112M2B / 112M2C	152	242-243



P_1 [kW]	n_2 [Min ⁻¹]	M_2 [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{RGR} [kN]	F_{AGR} [kN]	Tip / Type / Typ IE2 / IE3					
4.00	9.4	3877	0.8	95.57	23.0	40.0	28.0	18.0	PKD 4390 132M6A	159	238-239			
	10.4	3509	0.8	86.50	24.0	40.0	28.0	18.0						
	11.8	3086	1.0	76.08	25.0	40.0	28.0	18.0						
	13.1	2779	1.1	68.52	26.0	40.0	28.0	18.0						
	14.2	2564	1.1	63.21	26.0	40.0	28.0	18.0						
	16.2	2258	1.3	55.67	27.0	40.0	28.0	18.0						
	18.9	1931	1.5	47.61	27.0	40.0	28.0	17.0						
	22.2	1645	1.8	40.56	27.0	40.0	28.0	17.0						
	26.2	1395	2.1	34.38	19.0	40.0	28.0	17.0						
	32.2	1133	2.6	27.93	19.0	40.0	28.0	16.0						
	37.7	969	2.9	23.88	19.0	40.0	28.0	15.0						
	10.5	3408	0.8	132.86	17.0	40.0	28.0	17.0				PKD 4390 112M4C / 112M4D	137	238-239
	11.9	3022	0.8	117.81	19.0	40.0	28.0	18.0						
	14.6	2451	1.1	95.57	23.0	40.0	28.0	18.0						
	16.2	2219	1.3	86.50	24.0	40.0	28.0	18.0						
	18.4	1951	1.4	76.08	25.0	40.0	28.0	18.0						
	20.4	1757	1.6	68.52	26.0	40.0	28.0	18.0						
	22.1	1621	1.7	63.21	26.0	40.0	28.0	18.0						
	25.1	1428	2.0	55.67	27.0	40.0	28.0	18.0						
	29.4	1221	2.3	47.61	27.0	40.0	28.0	17.0						
	34.5	1040	2.7	40.56	27.0	40.0	28.0	17.0						
	14.4	2392	0.9	195.09	17.0	40.0	28.0	23.0	PKD 4390 112M2B / 112M2C	137	238-239			
	17.5	1961	1.1	159.93	17.0	40.0	28.0	20.0						
	21.1	1629	1.3	132.86	17.0	40.0	28.0	17.0						
	23.8	1444	1.3	117.81	19.0	40.0	28.0	18.0						
	29.3	1172	1.8	95.57	23.0	40.0	28.0	18.0						
	32.4	1060	2.0	86.50	24.0	40.0	28.0	18.0						
	36.8	933	2.3	76.08	25.0	40.0	28.0	18.0						
	40.9	840	2.5	68.52	26.0	40.0	28.0	18.0						
	44.3	775	2.7	63.21	26.0	40.0	28.0	18.0						
	18.0	2026	0.8	49.94	7.0	12.0	15.0	9.0				PKD 3390 132M6A	112	230-231
	18.9	1934	0.8	47.67	7.0	12.0	15.0	9.0						
	22.3	1638	1.0	40.37	8.0	13.0	15.0	9.0						
	30.3	1204	1.3	29.67	8.0	13.0	15.0	9.0						
	35.9	1017	1.5	25.06	8.0	12.0	15.0	9.0						
	37.6	970	1.7	23.92	8.0	12.0	15.0	9.0						
	44.4	821	1.9	20.25	8.0	12.0	15.0	9.0						
	52.6	694	2.2	17.10	1.0	14.0	15.0	9.0						
	57.2	638	2.3	15.73	1.0	14.0	15.0	9.0						
	66.5	549	2.6	13.54	1.0	14.0	15.0	8.0						
	71.0	514	2.0	12.68	1.0	14.0	15.0	8.0						
	83.8	436	2.2	10.74	1.0	14.0	15.0	8.0						
	105.9	345	2.7	8.50	1.0	14.0	15.0	7.0						
	18.4	1947	0.8	75.92	1.0	10.0	12.0	8.0	PKD 3390 112M4C / 112M4D	90	230-231			
	21.8	1644	0.9	64.11	6.0	11.0	15.0	9.0						
	23.7	1517	1.0	59.15	7.0	12.0	15.0	9.0						
	28.0	1281	1.2	49.94	7.0	12.0	15.0	9.0						
	29.4	1223	1.3	47.67	7.0	12.0	15.0	9.0						
34.7	1035	1.5	40.37	8.0	13.0	15.0	9.0							
36.8	977	1.6	38.09	8.0	13.0	15.0	9.0							
39.3	914	1.7	35.65	8.0	13.0	15.0	9.0							
47.2	761	2.0	29.67	8.0	13.0	15.0	9.0							
55.9	643	2.3	25.06	8.0	12.0	15.0	9.0							
58.5	614	2.5	23.92	8.0	12.0	15.0	9.0							
69.1	519	2.9	20.25	8.0	12.0	15.0	9.0							
25.2	1360	0.9	110.94	1.0	10.0	15.0	12.0	PKD 3390 112M2B / 112M2C	90	230-231				
29.9	1148	1.0	93.67	1.0	10.0	13.0	10.0							
33.3	1032	1.1	84.16	1.0	10.0	15.0	10.0							
36.9	931	1.3	75.92	1.0	10.0	12.0	8.0							
43.7	786	1.5	64.11	6.0	11.0	15.0	9.0							
47.3	725	1.6	59.15	7.0	12.0	15.0	9.0							
56.1	612	1.9	49.94	7.0	12.0	15.0	9.0							
58.7	584	2.0	47.67	7.0	12.0	15.0	9.0							
69.4	495	2.4	40.37	8.0	13.0	15.0	9.0							
73.5	467	2.5	38.09	8.0	13.0	15.0	9.0							
78.5	437	2.7	35.65	8.0	13.0	15.0	9.0							



P_1 [kW]	n_2 [Min ⁻¹]	M_2 [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{RGR} [kN]	F_{AGR} [kN]	Tip / Type / Typ IE2 / IE3		
4.00	35.3	1018	0.8	39.70	0.3	11.0	6.0	9.0	PKD 2390 112M4C / 112M4D	70	222-223
	42.1	854	1.0	33.28	0.4	11.0	8.0	9.0			
	44.5	806	1.0	31.43	3.0	11.0	9.0	9.0			
	47.9	749	1.1	29.22	4.0	12.0	10.0	9.0			
	53.6	670	1.3	26.14	6.0	12.0	11.0	9.0			
	57.0	630	1.4	24.58	6.0	11.0	11.0	9.0			
	62.3	577	1.4	22.48	7.0	12.0	11.0	9.0			
	70.3	511	1.5	19.92	7.0	11.0	12.0	9.0			
	79.9	449	1.6	17.52	7.0	11.0	12.0	8.0			
	85.9	418	1.5	16.29	7.0	11.0	12.0	8.0			
96.0	374	1.6	14.58	6.0	11.0	12.0	8.0				
111.7	321	1.7	12.53	6.0	10.0	12.0	8.0				
126.0	285	1.8	11.11	6.0	10.0	12.0	8.0				
159.3	225	2.1	8.79	6.0	9.0	12.0	8.0				
	42.1	815	0.8	66.47	3.0	11.0	8.0	11.0	PKD 2390 112M2B / 112M2C	70	222-223
	48.1	714	0.9	58.24	3.0	11.0	9.0	11.0			
	53.7	639	1.0	52.11	3.0	11.0	6.0	10.0			
	57.2	601	1.1	48.99	3.0	11.0	7.0	10.0			
	62.5	549	1.2	44.80	3.0	11.0	9.0	10.0			
	70.5	487	1.3	39.70	3.0	11.0	6.0	9.0			
	84.1	408	1.6	33.28	4.0	11.0	8.0	9.0			
	89.1	385	1.6	31.43	3.0	11.0	9.0	9.0			
	95.8	358	1.8	29.22	4.0	12.0	10.0	9.0			
	107.1	320	2.0	26.14	6.0	12.0	11.0	9.0			
	113.9	301	2.2	24.58	6.0	11.0	11.0	9.0			
	124.6	276	2.2	22.48	7.0	12.0	11.0	9.0			
	140.6	244	2.4	19.92	7.0	11.0	12.0	9.0			
	159.8	215	2.5	17.52	7.0	11.0	12.0	8.0			
	171.9	200	2.4	16.29	7.0	11.0	12.0	8.0			
192.0	179	2.5	14.58	6.0	11.0	12.0	8.0				
223.5	154	2.7	12.53	6.0	10.0	12.0	8.0				
252.0	136	2.9	11.11	6.0	10.0	12.0	8.0				
	46.0	781	0.8	30.44	7.0	16.0	9.0	16.0	PKD G 1390 112M4C / 112M4D	63	214-215
	53.2	675	0.9	26.30	6.0	14.0	9.0	14.0			
	60.4	594	0.9	23.16	7.0	14.0	9.0	14.0			
	68.3	526	1.1	20.51	8.0	14.0	9.0	14.0			
	80.0	449	1.2	17.49	9.0	14.0	9.0	14.0			
	91.7	392	1.3	15.27	9.0	14.0	9.0	14.0			
	112.1	320	1.6	12.49	9.0	14.0	9.0	14.0			
	60.7	566	0.8	46.16	7.0	16.0	9.0	18.0	PKD G 1390 112M2B / 112M2C	63	214-215
	68.5	501	0.9	40.87	7.0	16.0	9.0	18.0			
	80.3	427	1.1	34.86	7.0	16.0	9.0	16.0			
	92.0	373	1.2	30.44	7.0	16.0	9.0	16.0			
	106.5	322	1.4	26.30	6.0	14.0	9.0	14.0			
	120.9	284	1.4	23.16	7.0	14.0	9.0	14.0			
	136.5	251	1.8	20.51	8.0	14.0	9.0	14.0			
	160.1	214	1.9	17.49	9.0	14.0	9.0	14.0			
	183.4	187	2.1	15.27	9.0	14.0	9.0	14.0			
224.2	153	2.6	12.49	9.0	14.0	9.0	14.0				
	80.0	449	0.8	17.49	4.0	14.0	8.0	14.0	PKD 1390 112M4C / 112M4D	62	206-207
	91.7	392	1.0	15.27	5.0	14.0	9.0	14.0			
	151.2	238	0.8	9.26	7.0	13.0	9.0	13.0			
	173.1	207	0.9	8.09	7.0	13.0	9.0	13.0			
	88.9	386	0.8	31.48	4.0	14.0	8.0	18.0	PKD 1390 112M2B / 112M2C	62	206-207
	101.0	340	0.9	27.72	4.0	18.0	9.0	18.0			
	114.1	301	1.0	24.55	4.0	16.0	8.0	16.0			
	133.8	257	1.2	20.93	4.0	16.0	8.0	16.0			
	160.1	214	1.3	17.49	4.0	14.0	8.0	14.0			
	183.4	187	1.5	15.27	5.0	14.0	9.0	14.0			
	228.2	150	1.1	12.27	7.0	13.0	9.0	14.0			
	257.8	133	1.1	10.86	7.0	13.0	9.0	14.0			
	302.4	114	1.3	9.26	7.0	13.0	9.0	13.0			
	346.1	99	1.4	8.09	7.0	13.0	9.0	13.0			



P_1 [kW]	n_2 [Min ⁻¹]	M_2 [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{RGR} [kN]	F_{AGR} [kN]	Tip / Type / Typ IE2 / IE3					
4.00	45.6	812	0.8	19.73	6.2	12.0	-	-	PKD H 5290 132M6A	93	202-203			
	50.4	735	0.8	17.84	6.7	12.0	-	-						
	57.7	643	1.0	15.61	6.9	11.9	-	-						
	64.8	572	1.0	13.88	6.9	11.6	-	-						
	72.6	511	1.1	12.40	6.8	11.3	-	-						
	82.9	447	1.2	10.85	6.6	10.9	-	-						
	93.4	397	1.3	9.64	6.4	10.5	-	-						
	105.1	353	1.5	8.56	6.3	10.2	-	-						
	118.6	313	1.6	7.59	6.1	9.8	-	-						
	140.2	264	1.8	6.42	5.9	9.3	-	-						
	147.3	252	1.8	6.11	3.2	12.0	-	-						
	165.7	224	2.0	5.43	3.2	12.0	-	-						
	187.5	198	2.2	4.80	3.2	12.0	-	-						
	43.7	839	0.8	32.02	4.8	12.0	-	-				PKD H 5290 112M4C / 112M4D	71	202-203
	49.2	745	0.8	28.46	2.8	12.0	-	-						
	55.2	665	1.0	25.37	4.5	12.0	-	-						
	63.1	582	1.1	22.20	5.6	12.0	-	-						
	71.0	517	1.2	19.73	6.2	12.0	-	-						
	78.5	467	1.3	17.84	6.7	12.0	-	-						
	89.7	409	1.4	15.61	6.9	11.9	-	-						
	100.9	364	1.5	13.88	6.9	11.6	-	-						
	112.9	325	1.6	12.40	6.8	11.3	-	-						
	129.0	284	1.8	10.85	6.6	10.9	-	-						
	145.2	253	2.0	9.64	6.4	10.5	-	-						
	163.6	224	2.2	8.56	6.3	10.2	-	-						
	184.5	199	2.4	7.59	6.1	9.8	-	-						
	218.1	168	2.7	6.42	5.9	9.3	-	-						
	76.5	465	1.1	36.59	4.8	12.0	-	-	PKD H 5290 112M2B / 112M2C	71	202-203			
	87.4	407	1.2	32.02	4.8	12.0	-	-						
	98.4	362	1.3	28.46	2.8	12.0	-	-						
	110.4	322	1.5	25.37	4.5	12.0	-	-						
	126.1	282	1.7	22.20	5.6	12.0	-	-						
	141.9	251	1.8	19.73	6.2	12.0	-	-						
	157.0	227	2.0	17.84	6.7	12.0	-	-						
	179.4	198	2.2	15.61	6.9	11.9	-	-						
	201.7	176	2.3	13.88	6.9	11.6	-	-						
	225.8	158	2.5	12.40	6.8	11.3	-	-						
	258.1	138	2.8	10.85	6.6	10.9	-	-						
	82.0	452	0.8	10.98	5.0	10.4	-	-	PKD F 4290 132M6A	81	198-199			
	92.2	402	0.8	9.76	5.3	10.0	-	-						
	103.8	357	0.9	8.67	5.5	9.8	-	-						
	116.7	318	1.0	7.71	5.7	9.4	-	-						
	132.4	280	1.1	6.80	5.8	9.1	-	-						
	152.0	244	1.2	5.92	5.7	8.7	-	-						
	165.1	224	1.2	5.45	2.1	12.0	-	-						
	185.6	200	1.4	4.85	2.1	12.0	-	-						
	87.1	421	0.9	16.08	3.3	11.4	-	-	PKD F 4290 112M4C / 112M4D	59	198-199			
	99.5	369	0.9	14.07	4.2	11.0	-	-						
110.8	331	1.0	12.63	4.6	10.7	-	-							
127.5	288	1.2	10.98	5.0	10.4	-	-							
143.4	256	1.3	9.76	5.3	10.0	-	-							
161.5	227	1.4	8.67	5.5	9.8	-	-							
181.6	202	1.5	7.71	5.7	9.4	-	-							
205.9	178	1.7	6.80	5.8	9.1	-	-							
236.5	155	1.8	5.92	5.7	8.7	-	-							
120.4	296	1.0	23.26	3.3	11.4	-	-	PKD F 4290 112M2B / 112M2C	59	198-199				
137.6	259	1.0	20.35	3.3	11.4	-	-							
154.8	230	1.1	18.09	3.3	11.4	-	-							
174.1	204	1.4	16.08	3.3	11.4	-	-							
199.0	179	1.4	14.07	4.2	11.0	-	-							
221.7	160	1.6	12.63	4.6	10.7	-	-							
255.0	139	1.8	10.98	5.0	10.4	-	-							
286.9	124	2.0	9.76	5.3	10.0	-	-							
323.0	110	2.2	8.67	5.5	9.8	-	-							
363.2	98	2.4	7.71	5.7	9.4	-	-							
411.8	86	2.6	6.80	5.8	9.1	-	-							
473.0	75	2.8	5.92	5.7	8.7	-	-							

P_1 [kW]	n_2 [Min ⁻¹]	M_2 [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{RGR} [kN]	F_{AGR} [kN]	Tip / Type / Typ IE2 / IE3		
5.50	0.8	58577	0.9	1774.21	-	-	-	-	PKD G 9390/63 132S4A / 132S4B	1828	282
	0.9	48629	0.8	3210.12	-	-	-	-	PKD G 9390/63 132S2B / 132S2C	1828	282
	1.0	40584	0.9	2679.06	-	-	-	-			
	1.2	35088	1.1	2316.27	-	-	-	-			
	1.4	31086	1.2	2052.10	-	-	-	-			
	1.6	26877	1.4	1774.21	-	-	-	-			
	0.8	63054	0.8	1165.22	-	-	-	-	PKD G 9390/62 132M6B	1830	282
	0.9	52994	1.0	979.31	-	-	-	-			
	1.1	44187	1.2	816.57	-	-	-	-			
	1.3	38031	1.4	702.80	-	-	-	-			
	1.5	32881	1.6	607.63	-	-	-	-			
	1.7	29131	1.8	538.33	-	-	-	-			
	1.9	25662	2.0	474.22	-	-	-	-			
	2.1	23323	2.3	431.00	-	-	-	-			
	2.4	20073	2.6	370.95	-	-	-	-			
	2.8	17355	3.0	320.72	-	-	-	-			
	0.9	54825	0.9	1623.67	-	-	-	-	PKD G 9390/62 132S4A / 132S4B	1830	282
	1.0	45715	1.1	1353.86	-	-	-	-			
	1.2	39345	1.3	1165.22	-	-	-	-			
	1.4	33067	1.5	979.31	-	-	-	-			
	1.7	27572	1.8	816.57	-	-	-	-			
	2.0	23731	2.1	702.80	-	-	-	-			
	2.3	20517	2.4	607.63	-	-	-	-			
	2.6	18177	2.8	538.33	-	-	-	-			
	1.7	25488	1.5	1623.67	-	-	-	-	PKD G 9390/62 132S2B / 132S2C	1830	282
	2.1	21253	1.8	1353.86	-	-	-	-			
	2.4	18292	2.1	1165.22	-	-	-	-			
	2.9	15373	2.5	979.31	-	-	-	-			
	3.4	12819	3.0	816.57	-	-	-	-			
	1.3	38233	0.9	706.54	135.0	70.0	160.0	70.0	PKD 9390/52 132M6B	1530	280
	1.5	32996	1.0	609.75	143.0	70.0	160.0	70.0			
	2.0	24040	1.4	444.25	150.0	70.0	160.0	70.0			
2.3	20900	1.6	386.23	152.0	70.0	160.0	70.0				
3.2	15228	2.2	281.40	102.0	70.0	160.0	70.0				
1.3	37795	0.8	1119.32	93.0	70.0	160.0	70.0	PKD 9390/52 132S4A / 132S4B	1530	280	
1.7	28566	1.1	846.00	124.0	70.0	160.0	70.0				
2.0	23857	1.3	706.54	135.0	70.0	160.0	70.0				
2.3	20589	1.6	609.75	143.0	70.0	160.0	70.0				
3.2	15001	2.1	444.25	150.0	70.0	160.0	70.0				
3.6	13041	2.5	386.23	152.0	70.0	160.0	70.0				
1.6	28180	0.9	1795.13	93.0	70.0	-	-	PKD 9390/52 132S2B / 132S2C	1530	280	
2.0	22363	1.1	1424.59	93.0	70.0	-	-				
2.5	17571	1.4	1119.32	93.0	70.0	160.0	70.0				
3.3	13281	1.8	846.00	124.0	70.0	160.0	70.0				
4.0	11091	2.2	706.54	135.0	70.0	160.0	70.0				
4.6	9572	2.5	609.75	143.0	70.0	160.0	70.0				
3.0	16609	2.0	297.79	143.0	70.0	-	-	PKD 9390 132M6B	1454	270-271	
3.6	14125	2.4	253.26	148.0	70.0	-	-				
4.7	10502	3.0	297.79	143.0	70.0	-	-	PKD 9390 132S4A / 132S4B	1454	270-271	
2.1	23537	0.9	434.96	107.0	65.0	120.0	65.0	PKD G 8390/52 132M6B	960	280	
2.4	20534	1.0	379.47	111.0	65.0	120.0	65.0				
3.3	14711	1.4	271.85	117.0	65.0	120.0	65.0				
3.8	12790	1.6	236.35	118.0	65.0	120.0	65.0				
5.2	9318	2.3	172.19	83.0	65.0	120.0	65.0				
6.2	7838	2.4	144.85	83.0	65.0	120.0	65.0				
2.2	21058	0.9	623.65	87.0	65.0	120.0	65.0	PKD G 8390/52 132S4A / 132S4B	960	280	
3.2	14687	1.2	434.96	107.0	65.0	120.0	65.0				
3.7	12813	1.4	379.47	111.0	65.0	120.0	65.0				
5.1	9179	2.0	271.85	117.0	65.0	120.0	65.0				
5.9	7981	2.3	236.35	118.0	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_{RGR} [kN]	F_{AGR} [kN]	Tip / Type / Typ IE2 / IE3		
5.50	2.3	18896	0.8	1203.73	87.0	65.0	120.0	65.0	PKD G 8390/52 132S2B / 132S2C	960	280
	3.1	14282	1.1	909.80	87.0	65.0	120.0	65.0			
	3.9	11222	1.4	714.84	87.0	65.0	120.0	65.0			
	4.5	9790	1.6	623.65	87.0	65.0	120.0	65.0			
	6.4	6828	2.2	434.96	107.0	65.0	120.0	65.0			
	7.4	5957	2.6	379.47	111.0	65.0	120.0	65.0			
	3.7	13336	1.0	246.45	94.0	60.0	95.0	60.0	PKD 8390/52 132M6B	710	280
	4.9	9866	1.4	182.32	95.0	60.0	95.0	60.0			
	6.1	7919	1.7	146.35	95.0	60.0	95.0	60.0			
	7.3	6691	1.9	123.64	79.0	60.0	95.0	60.0			
	5.7	8322	1.6	246.45	94.0	60.0	95.0	60.0	PKD 8390/52 132S4A / 132S4B	710	280
	7.7	6156	2.1	182.32	-	-	95.0	60.0			
	9.6	4942	2.6	146.35	95.0	60.0	95.0	60.0			
	11.3	4175	2.9	123.64	79.0	60.0	95.0	60.0			
	11.4	3869	2.6	246.45	94.0	60.0	95.0	60.0	PKD 8390/52 132S2B / 132S2C	710	280
	3.1	15478	0.9	286.02	71.0	60.0	95.0	60.0	PKD 8390/42 132M6B	685	280
	3.2	15004	0.9	444.35	76.0	60.0	95.0	60.0	PKD 8390/42 132S4A / 132S4B	685	280
	3.7	12831	1.0	379.99	81.0	60.0	95.0	60.0			
	4.9	9658	1.3	286.02	71.0	60.0	95.0	60.0			
	4.0	11068	0.9	705.03	76.0	60.0	95.0	60.0	PKD 8390/42 132S2B / 132S2C	685	280
	4.6	9465	1.0	602.92	76.0	60.0	95.0	60.0			
	6.3	6975	1.4	444.35	76.0	60.0	95.0	60.0			
	7.4	5965	1.7	379.99	81.0	60.0	95.0	60.0			
	9.8	4490	2.2	286.02	71.0	60.0	95.0	60.0			
	3.9	12866	1.6	230.68	119.0	65.0	120.0	65.0	PKD G 8390 132M6B	884	266-267
	4.6	10822	1.9	194.04	119.0	65.0	120.0	65.0			
	6.1	8135	2.5	230.68	119.0	65.0	120.0	65.0	PKD G 8390 132S4A / 132S4B	884	266-267
	7.2	6843	2.9	194.04	119.0	65.0	120.0	65.0			
	3.0	16547	0.8	296.68	88.0	60.0	95.0	60.0	PKD 8390 132M6B	634	262-263
	3.7	13623	1.0	244.25	91.0	60.0	95.0	60.0			
	6.0	8301	1.6	148.84	95.0	60.0	95.0	60.0			
	7.3	6835	2.0	122.54	91.0	60.0	95.0	60.0			
	7.7	6500	2.1	116.55	91.0	60.0	95.0	60.0			
	9.4	5352	2.6	95.96	91.0	60.0	95.0	60.0			
	10.8	4626	3.0	82.95	91.0	60.0	95.0	60.0			
	4.7	10463	1.2	296.68	88.0	60.0	95.0	60.0			
5.7	8614	1.5	244.25	91.0	60.0	95.0	60.0				
9.4	5249	2.5	148.84	95.0	60.0	95.0	60.0				
11.4	4322	3.0	122.54	91.0	60.0	95.0	60.0				
9.4	5001	1.9	296.68	88.0	60.0	95.0	60.0	PKD 8390 132S2B / 132S2C	634	262-263	
11.5	4117	2.4	244.25	91.0	60.0	95.0	60.0				
5.7	8499	0.8	157.05	60.0	50.0	66.0	43.0	PKD 7390/42 132M6B	425	278	
6.7	7268	0.9	134.31	58.0	50.0	66.0	39.0				
5.2	9098	0.9	269.43	46.0	50.0	66.0	45.0	PKD 7390/42 132S4A / 132S4B	425	278	
7.1	6628	1.1	196.30	56.0	50.0	66.0	44.0				
8.9	5303	1.2	157.05	60.0	50.0	66.0	43.0				
10.4	4535	1.4	134.31	58.0	50.0	66.0	39.0				
10.4	4230	1.5	269.43	46.0	50.0	66.0	45.0	PKD 7390/42 132S2B / 132S2C	425	278	
14.3	3082	1.8	196.30	56.0	50.0	66.0	44.0				
17.8	2465	2.0	157.05	60.0	50.0	66.0	43.0				
20.8	2108	2.2	134.31	58.0	50.0	66.0	46.0				
4.5	10471	0.8	310.09	37.0	50.0	66.0	48.0	PKD 7390/32 132S4A / 132S4B	408	278	



P_1 [kW]	n_2 [Min ⁻¹]	M_2 [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{RGR} [kN]	F_{AGR} [kN]	Tip / Type / Typ IE2 / IE3		
5.50	5.9	7392	0.9	470.91	37.0	50.0	66.0	50.0	PKD 7390/32 132S2B / 132S2C	408	278
	7.3	6040	1.1	384.74	37.0	50.0	66.0	50.0			
	9.0	4868	1.3	310.09	37.0	50.0	66.0	48.0			
	4.3	11544	0.8	206.98	55.0	50.0	66.0	47.0	PKD 7390 132M6B	374	258-259
	4.8	10417	0.9	186.78	57.0	50.0	66.0	47.0			
	5.7	8781	1.0	157.44	60.0	50.0	66.0	46.0			
	6.6	7622	0.9	136.65	61.0	50.0	66.0	44.0			
	8.2	6141	1.5	110.10	63.0	50.0	66.0	43.0			
	9.8	5101	1.7	91.45	64.0	50.0	66.0	42.0			
	11.3	4440	2.0	79.61	64.0	50.0	66.0	41.0			
	12.8	3909	2.3	70.08	58.0	50.0	66.0	40.0			
	15.4	3259	2.7	58.44	58.0	50.0	66.0	37.0			
	5.7	8660	1.0	245.55	50.0	50.0	66.0	48.0	PKD 7390 132S4A / 132S4B	374	258-259
	6.8	7300	1.2	206.98	55.0	50.0	66.0	47.0			
	7.5	6587	1.3	186.78	57.0	50.0	66.0	47.0			
	8.9	5552	1.5	157.44	60.0	50.0	66.0	46.0			
	10.2	4819	1.4	136.65	61.0	50.0	66.0	44.0			
	12.7	3883	2.2	110.10	63.0	50.0	66.0	43.0			
	15.3	3225	2.6	91.45	64.0	50.0	66.0	42.0			
	17.6	2808	3.0	79.61	64.0	50.0	66.0	41.0			
	11.4	4139	1.6	245.55	50.0	50.0	66.0	48.0	PKD 7390 132S2B / 132S2C	374	258-259
	13.5	3489	1.9	206.98	55.0	50.0	66.0	47.0			
	15.0	3149	2.1	186.78	57.0	50.0	66.0	47.0			
	17.8	2654	2.4	157.44	60.0	50.0	66.0	46.0			
	20.5	2304	2.2	136.65	61.0	50.0	66.0	44.0			
	6.0	8149	0.8	150.60	63.0	50.0	66.0	50.0	PKD 6390/42 132M6B	425	278
	7.0	6969	0.9	128.79	58.0	50.0	66.0	44.0			
	5.4	8724	0.9	258.36	48.0	50.0	66.0	50.0	PKD 6390/42 132S4A / 132S4B	425	278
	7.4	6356	1.1	188.23	49.0	50.0	66.0	50.0			
	9.3	5085	1.2	150.60	63.0	50.0	66.0	50.0			
	10.9	4349	1.4	128.79	58.0	50.0	66.0	44.0			
	10.8	4056	1.5	258.36	48.0	50.0	66.0	50.0	PKD 6390/42 132S2B / 132S2C	425	278
	14.9	2955	1.9	188.23	49.0	50.0	66.0	50.0			
	18.6	2364	2.0	150.60	63.0	50.0	66.0	50.0			
	21.7	2022	2.3	128.79	58.0	50.0	66.0	44.0			
	4.7	10040	0.8	297.35	42.0	45.0	66.0	50.0			
	6.2	7088	0.9	451.55	42.0	45.0	66.0	50.0	PKD 6390/32 132S2B / 132S2C	408	278
	7.6	5791	1.1	368.93	42.0	45.0	66.0	50.0			
	9.4	4668	1.3	297.35	42.0	45.0	66.0	50.0			
	4.5	11056	0.8	198.23	56.0	50.0	66.0	50.0	PKD 6390 132M6B	374	254-255
	5.0	9990	0.9	179.11	58.0	50.0	66.0	50.0			
	6.0	8410	1.0	150.79	60.0	50.0	66.0	50.0			
7.0	7215	1.0	129.36	61.0	50.0	66.0	50.0				
8.5	5889	1.5	105.58	63.0	50.0	66.0	48.0				
10.3	4891	1.8	87.70	64.0	50.0	66.0	46.0				
11.8	4257	2.0	76.33	64.0	50.0	66.0	45.0				
13.4	3748	2.3	67.20	58.0	50.0	66.0	44.0				
16.1	3125	2.8	56.03	58.0	50.0	66.0	41.0				
5.9	8304	1.0	235.45	52.0	50.0	66.0	50.0	PKD 6390 132S4A / 132S4B			
7.1	6991	1.2	198.23	56.0	50.0	66.0	50.0				
7.8	6317	1.3	179.11	58.0	50.0	66.0	50.0				
9.3	5318	1.5	150.79	60.0	50.0	66.0	50.0				
10.8	4562	1.4	129.36	61.0	50.0	66.0	50.0				
13.3	3723	2.2	105.58	63.0	50.0	66.0	48.0				
16.0	3093	2.7	87.70	64.0	50.0	66.0	46.0				
18.3	2692	3.0	76.33	64.0	50.0	66.0	45.0				
11.9	3969	1.6	235.45	52.0	50.0	66.0	50.0		PKD 6390 132S2B / 132S2C	374	254-255
14.1	3342	1.9	198.23	56.0	50.0	66.0	50.0				
15.6	3019	2.1	179.11	58.0	50.0	66.0	50.0				
18.6	2542	2.5	150.79	60.0	50.0	66.0	50.0				
21.6	2181	2.3	129.36	61.0	50.0	66.0	50.0				



P₁ [kW]	n₂ [Min ⁻¹]	M₂ [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{R GR} [kN]	F_{A GR} [kN]	Tip / Type / Typ IE2 / IE3	 Kg	 mm			
5.50	7.5	6693	0.8	120.01	30.0	45.0	38.0	33.0	PKD 5390 132M6B	234	246-247			
	8.8	5717	0.9	102.50	32.0	45.0	38.0	33.0						
	10.2	4915	1.0	88.12	34.0	45.0	38.0	32.0						
	12.5	4026	1.3	72.18	36.0	45.0	38.0	31.0						
	14.4	3483	1.4	62.45	37.0	45.0	38.0	31.0						
	16.5	3042	1.7	54.55	37.0	45.0	38.0	30.0						
	20.0	2510	2.0	45.00	38.0	45.0	38.0	29.0						
	22.6	2216	2.3	39.74	26.0	45.0	38.0	28.0						
	24.9	2020	2.5	36.21	26.0	45.0	38.0	27.0						
	28.7	1747	2.9	31.33	26.0	45.0	38.0	25.0						
	8.3	5975	0.8	169.43	16.0	45.0	38.0	34.0				PKD 5390 132S4A / 132S4B	234	246-247
	11.7	4232	1.1	120.01	30.0	45.0	38.0	33.0						
	13.7	3615	1.3	102.50	32.0	45.0	38.0	33.0						
	15.9	3108	1.5	88.12	34.0	45.0	38.0	32.0						
	19.4	2546	1.9	72.18	36.0	45.0	38.0	31.0						
	22.4	2202	2.2	62.45	37.0	45.0	38.0	31.0						
	25.7	1924	2.5	54.55	37.0	45.0	38.0	30.0						
	31.1	1587	3.0	45.00	38.0	45.0	38.0	29.0						
	14.1	3344	1.1	198.37	16.0	45.0	38.0	39.0	PKD 5390 132S2B / 132S2C	234	246-247			
	16.5	2856	1.3	169.43	16.0	45.0	38.0	34.0						
	23.3	2023	1.8	120.01	30.0	45.0	45.0	38.0						
	27.3	1728	2.1	102.50	32.0	45.0	38.0	33.0						
	31.8	1485	2.5	88.12	34.0	45.0	38.0	32.0						
	38.8	1217	3.0	72.18	36.0	45.0	38.0	31.0						
	13.1	3822	0.8	68.52	23.0	40.0	28.0	16.0	PKD 4390 132M6B	159	238-239			
	14.2	3525	0.8	63.21	24.0	40.0	28.0	16.0						
	16.2	3105	0.9	55.67	25.0	40.0	28.0	16.0						
	18.9	2655	1.1	47.61	26.0	40.0	28.0	16.0						
	22.2	2262	1.3	40.56	27.0	40.0	28.0	16.0						
	26.2	1918	1.5	34.38	27.0	40.0	28.0	16.0						
	32.2	1558	1.9	27.93	28.0	40.0	28.0	15.0						
	37.7	1332	2.1	23.88	17.0	40.0	28.0	15.0						
	44.2	1135	2.4	20.35	17.0	40.0	28.0	15.0						
	49.3	1018	2.5	18.25	17.0	40.0	28.0	13.0						
	57.4	875	2.4	15.69	17.0	40.0	28.0	13.0						
	67.1	748	2.8	13.42	17.0	40.0	28.0	13.0						
	78.7	637	2.5	11.43	17.0	40.0	28.0	12.0						
	87.8	572	2.8	10.25	17.0	40.0	28.0	12.0						
	95.5	525	3.0	9.42	17.0	40.0	28.0	12.0						
	101.9	492	3.0	8.83	17.0	40.0	28.0	12.0						
	14.6	3370	0.8	95.57	17.0	40.0	28.0	15.0	PKD 4390 132S4A / 132S4B	159	238-239			
	16.2	3051	0.9	86.50	20.0	40.0	28.0	15.0						
18.4	2683	1.0	76.08	22.0	40.0	28.0	15.0							
20.4	2416	1.2	68.52	23.0	40.0	28.0	16.0							
22.1	2229	1.3	63.21	24.0	40.0	28.0	16.0							
25.1	1963	1.4	55.67	25.0	40.0	28.0	16.0							
29.4	1679	1.7	47.61	26.0	40.0	28.0	16.0							
34.5	1430	2.0	40.56	27.0	40.0	28.0	16.0							
40.7	1212	2.3	34.38	27.0	40.0	28.0	16.0							
50.1	985	2.8	27.93	28.0	39.0	28.0	15.0							
17.5	2696	0.8	159.93	17.0	40.0	28.0	20.0	PKD 4390 132S2B / 132S2C				159	238-239	
21.1	2240	1.0	132.86	17.0	40.0	28.0	17.0							
29.3	1611	1.3	95.57	17.0	40.0	28.0	15.0							
32.4	1458	1.5	86.50	20.0	40.0	28.0	15.0							
36.8	1283	1.7	76.08	22.0	40.0	28.0	15.0							
40.9	1155	1.8	68.52	23.0	40.0	28.0	16.0							
44.3	1066	2.0	63.21	24.0	40.0	28.0	16.0							
50.3	938	2.3	55.67	25.0	40.0	28.0	16.0							
58.8	803	2.7	47.61	26.0	40.0	28.0	16.0							



P_1 [kW]	n_2 [Min ⁻¹]	M_2 [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{RGR} [kN]	F_{AGR} [kN]	Tip / Type / Typ IE2 / IE3					
5.50	30.3	1655	1.0	29.67	6.0	10.0	15.0	8.0	PKD 3390 132M6B	112	230-231			
	35.9	1398	1.1	25.06	7.0	10.0	15.0	8.0						
	37.6	1334	1.2	23.92	7.0	10.0	15.0	8.0						
	44.4	1129	1.4	20.25	7.0	10.0	15.0	8.0						
	52.6	954	1.6	17.10	7.0	10.0	15.0	8.0						
	57.2	877	1.7	15.73	7.0	10.0	15.0	8.0						
	66.5	755	1.9	13.54	7.0	10.0	15.0	8.0						
	71.0	707	1.5	12.68	6.0	9.0	15.0	8.0						
	83.8	599	1.6	10.74	6.0	9.0	15.0	7.0						
	105.9	474	1.9	8.50	6.0	9.0	15.0	7.0						
	28.0	1761	0.9	49.94	1.0	7.0	14.0	7.0				PKD 3390 132S4A / 132S4B	112	230-231
	29.4	1681	0.9	47.67	4.0	8.0	15.0	7.0						
	34.7	1424	1.1	40.37	6.0	9.0	15.0	8.0						
	47.2	1046	1.4	29.67	6.0	10.0	15.0	8.0						
	55.9	884	1.7	25.06	7.0	10.0	15.0	8.0						
	58.5	844	1.8	23.92	7.0	10.0	15.0	8.0						
	69.1	714	2.1	20.25	7.0	10.0	15.0	8.0						
	81.9	603	2.4	17.10	7.0	10.0	15.0	8.0						
	89.0	555	2.5	15.73	7.0	10.0	15.0	8.0						
	103.4	478	2.8	13.54	7.0	10.0	15.0	8.0						
	110.4	447	2.2	12.68	6.0	9.0	15.0	8.0						
	130.4	379	2.4	10.74	6.0	9.0	15.0	7.0						
	164.7	300	2.9	8.50	6.0	9.0	15.0	7.0						
	47.3	997	1.2	59.15	1.0	7.0	15.0	9.0	PKD 3390 132S2B / 132S2C	112	230-231			
	56.1	842	1.4	49.94	1.0	7.0	14.0	7.0						
	58.7	804	1.5	47.67	4.0	8.0	15.0	7.0						
	69.4	681	1.7	40.37	6.0	9.0	15.0	8.0						
	94.4	500	2.3	29.67	6.0	10.0	15.0	8.0						
	111.7	422	2.7	25.06	7.0	10.0	15.0	8.0						
	117.1	403	2.9	23.92	7.0	10.0	15.0	8.0						
	72.6	702	0.8	12.40	6.1	10.2	-	-	PKD H 5290 132M6B	93	202-203			
	82.9	614	0.9	10.85	6.0	9.9	-	-						
	93.4	546	1.0	9.64	5.9	9.7	-	-						
	105.1	485	1.1	8.56	5.8	9.4	-	-						
	118.6	430	1.2	7.59	5.7	9.2	-	-						
	140.2	364	1.3	6.42	5.6	8.8	-	-						
	147.3	346	1.3	6.11	5.5	8.6	-	-						
	165.7	307	1.5	5.43	5.4	8.3	-	-						
	187.5	272	1.6	4.80	5.3	8.0	-	-						
	63.1	800	0.8	22.20	3.0	10.7	-	-	PKD H 5290 132S4A / 132S4B	93	202-203			
	71.0	711	0.8	19.73	3.6	10.8	-	-						
	78.5	643	0.9	17.84	4.8	10.6	-	-						
	89.7	562	1.0	15.61	5.8	10.5	-	-						
	100.9	500	1.1	13.88	6.1	10.3	-	-						
	112.9	447	1.2	12.40	6.1	10.2	-	-						
	129.0	391	1.3	10.85	6.0	9.9	-	-						
	145.2	347	1.4	9.64	5.9	9.7	-	-						
	163.6	308	1.6	8.56	5.8	9.4	-	-						
184.5	273	1.7	7.59	5.7	9.2	-	-							
218.1	231	1.9	6.42	5.6	8.8	-	-							
229.1	220	1.9	6.11	5.5	8.6	-	-							
257.8	196	2.2	5.43	5.4	8.3	-	-							
291.7	173	2.4	4.80	5.3	8.0	-	-							
110.4	443	1.1	25.37	3.0	10.7	-	-	PKD H 5290 132S2B / 132S2C	93	202-203				
126.1	388	1.2	22.20	3.0	10.7	-	-							
141.9	345	1.3	19.73	3.6	10.8	-	-							
157.0	312	1.4	17.84	4.8	10.6	-	-							
179.4	273	1.6	15.61	5.8	10.5	-	-							
201.7	242	1.7	13.88	6.1	10.3	-	-							
225.8	217	1.8	12.40	6.1	10.2	-	-							
258.1	190	2.1	10.85	6.0	9.9	-	-							
290.5	168	2.2	9.64	5.9	9.7	-	-							
327.1	150	2.5	8.56	5.8	9.4	-	-							
368.9	133	2.7	7.59	5.7	9.2	-	-							
436.1	112	3.0	6.42	5.6	8.8	-	-							
458.3	107	3.0	6.11	5.5	8.6	-	-							



P₁ [kW]	n₂ [Min ⁻¹]	M₂ [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{R GR} [kN]	F_{A GR} [kN]	Tip / Type / Typ IE2 / IE3	Kg	mm	
5.50	132.4	385	0.8	6.80	5.4	8.4	-	-	PKD F 4290 132M6B	81	198-199	
	152.0	335	0.9	5.92	5.3	8.1	-	-				
	165.1	309	0.9	5.45	5.3	8.0	-	-				
	185.6	275	1.0	4.85	5.2	7.7	-	-				
	127.5	395	0.8	10.98	3.7	9.2	-	-	PKD F 4290 132S4A / 132S4B	81	198-199	
	143.4	352	0.9	9.76	4.4	9.0	-	-				
	161.5	312	1.0	8.67	4.8	8.8	-	-				
	181.6	278	1.1	7.71	5.1	8.6	-	-				
	205.9	245	1.2	6.80	5.4	8.4	-	-				
	236.5	213	1.3	5.92	5.3	8.1	-	-				
	256.9	196	1.4	5.45	5.3	8.0	-	-				
	288.7	175	1.5	4.85	5.2	7.7	-	-				
	154.8	316	0.8	18.09	3.7	9.2	-	-	PKD F 4290 132S2B / 132S2C	81	198-199	
	174.1	281	1.0	16.08	3.7	9.2	-	-				
	199.0	246	1.1	14.07	3.7	9.2	-	-				
	221.7	221	1.2	12.63	3.7	9.2	-	-				
	255.0	192	1.3	10.98	3.7	9.2	-	-				
	286.9	170	1.4	9.76	4.4	9.0	-	-				
	323.0	151	1.6	8.67	4.8	8.8	-	-				
	363.2	135	1.7	7.71	5.1	8.6	-	-				
	411.8	119	1.9	6.80	5.4	8.4	-	-				
	473.0	103	2.1	5.92	5.3	8.1	-	-				
	513.8	95	2.1	5.45	5.3	8.0	-	-				
	577.3	85	2.4	4.85	5.2	7.7	-	-				
	7.50	1.2	47848	0.8	2316.27	-	-	-	-	PKD G 9390/63 132S2C / 132S2D	1828	282
		1.4	42391	0.9	2052.10	-	-	-	-			
		1.6	36650	1.0	1774.21	-	-	-	-			
		1.1	60256	0.9	816.57	-	-	-	-	PKD G 9390/62 160M6B / 160M6C	1866	282
		1.3	51860	1.0	702.80	-	-	-	-			
		1.5	44838	1.2	607.63	-	-	-	-			
		1.7	39724	1.3	538.33	-	-	-	-			
		1.9	34993	1.5	474.22	-	-	-	-			
		2.1	31804	1.7	431.00	-	-	-	-			
2.4		27373	1.9	370.95	-	-	-	-				
2.8		23666	2.2	320.72	-	-	-	-				
3.0		21928	2.4	297.17	-	-	-	-				
3.3		19930	2.6	270.09	-	-	-	-				
3.9		17231	3.0	233.51	-	-	-	-				
1.0		62338	0.8	1353.86	-	-	-	-	PKD G 9390/62 132M4C / 132M4D	1830	282	
1.2		53652	0.9	1165.22	-	-	-	-				
1.4		45092	1.1	979.31	-	-	-	-				
1.7		37599	1.3	816.57	-	-	-	-				
2.0		32360	1.5	702.80	-	-	-	-				
2.3		27978	1.8	607.63	-	-	-	-				
2.6		24787	2.0	538.33	-	-	-	-				
3.0		21835	2.3	474.22	-	-	-	-				
3.2		19845	2.5	431.00	-	-	-	-				
3.8		17080	2.9	370.95	-	-	-	-				
1.7		34757	1.1	1623.67	-	-	-	-	PKD G 9390/62 132S2C / 132S2D	1830	282	
2.1		28981	1.3	1353.86	-	-	-	-				
2.4		24943	1.5	1165.22	-	-	-	-				
2.9		20963	1.8	979.31	-	-	-	-				
3.4		17480	2.2	816.57	-	-	-	-				
4.0		15044	2.5	702.80	-	-	-	-				
4.6		13007	2.9	607.63	-	-	-	-				
2.0		32782	1.0	444.25	143.0	70.0	160.0	70.0	PKD 9390/52 160M6B / 160M6C	1566	280	
2.3		28500	1.2	386.23	146.0	70.0	160.0	70.0				
3.2	20765	1.6	281.40	152.0	70.0	160.0	70.0					
4.0	16467	2.0	223.16	93.0	70.0	160.0	70.0					
4.7	14152	2.4	191.78	93.0	70.0	160.0	70.0					
1.7	38954	0.8	846.00	85.0	70.0	160.0	70.0	PKD 9390/52 132M4C / 132M4D	1530	280		
2.0	32532	1.0	706.54	110.0	70.0	160.0	70.0					
2.3	28076	1.1	609.75	127.0	70.0	160.0	70.0					
3.2	20455	1.6	444.25	143.0	70.0	160.0	70.0					
3.6	17784	1.8	386.23	146.0	70.0	160.0	70.0					
5.0	12957	2.5	281.40	152.0	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_{RGR} [kN]	F_{AGR} [kN]	Tip / Type / Typ IE2 / IE3		
7.50	2.0	30495	0.8	1424.59	85.0	70.0	160.0	70.0	PKD 9390/52 132S2C / 132S2D	1530	280
	2.5	23961	1.0	1119.32	85.0	70.0	160.0	70.0			
	3.3	18110	1.3	846.00	85.0	70.0	160.0	70.0			
	4.0	15124	1.6	706.54	110.0	70.0	160.0	70.0			
	4.6	13053	1.9	609.75	127.0	70.0	160.0	70.0			
	6.3	9510	2.6	444.25	143.0	70.0	160.0	70.0			
	7.2	8268	2.9	386.23	146.0	70.0	160.0	70.0			
	3.0	22649	1.5	297.79	143.0	70.0	160.0	70.0	PKD 9390 160M6B / 160M6C	1490	270-271
	3.6	19262	1.7	253.26	148.0	70.0	160.0	70.0			
	4.6	15030	2.2	197.62	143.0	70.0	160.0	70.0			
	5.9	11645	2.9	153.11	143.0	70.0	160.0	70.0			
	4.7	14321	2.2	297.79	143.0	70.0	-	-	PKD 9390 132M4C / 132M4D	1454	270-271
	5.5	12180	2.6	253.26	148.0	70.0	-	-			
	3.3	20060	1.0	271.85	112.0	65.0	120.0	65.0	PKD G 8390/52 160M6B / 160M6C	996	280
	3.8	17440	1.2	236.35	115.0	65.0	120.0	65.0			
	5.2	12706	1.7	172.19	119.0	65.0	120.0	65.0			
	6.2	10689	1.8	144.85	120.0	65.0	120.0	65.0			
	3.2	20028	0.9	434.96	91.0	65.0	120.0	65.0	PKD G 8390/52 132M4C / 132M4D	960	280
	3.7	17473	1.0	379.47	100.0	65.0	120.0	65.0			
	5.1	12517	1.4	271.85	112.0	65.0	120.0	65.0			
	5.9	10883	1.7	236.35	115.0	65.0	120.0	65.0			
	8.1	7928	2.3	172.19	119.0	65.0	120.0	65.0			
	9.7	6670	2.7	144.85	120.0	65.0	120.0	65.0			
	3.1	19476	0.8	909.80	91.0	65.0	120.0	65.0	PKD G 8390/52 132S2C / 132S2D	960	280
	3.9	15302	1.0	714.84	91.0	65.0	120.0	65.0			
	4.5	13350	1.1	623.65	91.0	65.0	120.0	65.0			
	6.4	9311	1.6	434.96	91.0	65.0	120.0	65.0			
	7.4	8123	1.9	379.47	100.0	65.0	120.0	65.0			
	10.3	5819	2.6	271.85	112.0	65.0	120.0	65.0			
	11.8	5059	3.0	236.35	115.0	65.0	120.0	65.0			
	3.7	18186	0.8	246.45	94.0	60.0	95.0	60.0			
	4.9	13454	1.0	182.32	95.0	60.0	95.0	60.0			
	6.1	10799	1.3	146.35	95.0	60.0	95.0	60.0			
	7.3	9124	1.4	123.64	79.0	60.0	95.0	60.0			
	5.7	11348	1.1	246.45	94.0	60.0	95.0	60.0	PKD 8390/52 132M4C / 132M4D	710	280
	7.7	8395	1.5	182.32	-	-	95.0	60.0			
	9.6	6739	1.9	146.35	95.0	60.0	95.0	60.0			
	11.3	5693	2.1	123.64	79.0	60.0	95.0	60.0			
	11.4	5276	1.9	246.45	94.0	60.0	95.0	60.0	PKD 8390/52 132S2C / 132S2D	710	280
	15.4	3903	2.5	182.32	95.0	60.0	95.0	60.0			
	4.9	13170	1.0	286.02	71.0	60.0	95.0	60.0	PKD 8390/42 132M4C / 132M4D	685	280
	4.6	12906	0.8	602.92	71.0	60.0	95.0	60.0	PKD 8390/42 132S2C / 132S2D	685	280
6.3	9512	1.0	444.35	71.0	60.0	95.0	60.0				
7.4	8134	1.2	379.99	71.0	60.0	95.0	60.0				
9.8	6123	1.6	286.02	71.0	60.0	95.0	60.0				
3.9	17544	1.2	230.68	115.0	65.0	120.0	65.0				
4.6	14758	1.4	194.04	117.0	65.0	120.0	65.0	PKD G 8390 160M6B / 160M6C	920	266-267	
5.9	11551	1.8	151.87	119.0	65.0	120.0	65.0				
7.0	9716	2.2	127.75	119.0	65.0	120.0	65.0				
7.7	8870	2.4	116.62	119.0	65.0	120.0	65.0				
9.9	6893	3.0	90.63	119.0	65.0	120.0	65.0				
6.1	11094	1.8	230.68	115.0	65.0	120.0	65.0				
7.2	9332	2.1	194.04	117.0	65.0	120.0	65.0	PKD G 8390 132M4C / 132M4D	884	266-267	
12.1	5503	2.9	230.68	115.0	65.0	120.0	65.0	PKD G 8390 132S2C / 132S2D	884	266-267	



P_1 [kW]	n_2 [Min ⁻¹]	M_2 [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{RGR} [kN]	F_{AGR} [kN]	Tip / Type / Typ IE2 / IE3		
7.50	6.0	11320	1.2	148.84	93.0	60.0	95.0	60.0	PKD 8390 160M6B / 160M6C	670	262-263
	7.3	9320	1.5	122.54	91.0	60.0	95.0	60.0			
	7.7	8864	1.5	116.55	94.0	60.0	95.0	60.0			
	9.4	7298	1.9	95.96	95.0	60.0	95.0	60.0			
	10.8	6309	2.2	82.95	88.0	60.0	95.0	60.0			
	12.6	5443	2.5	71.56	88.0	60.0	95.0	60.0			
	14.4	4748	2.9	62.43	88.0	60.0	95.0	60.0	PKD 8390 132M4C / 132M4D	634	262-263
	4.7	14268	0.9	296.68	79.0	60.0	95.0	60.0			
	5.7	11746	1.1	244.25	85.0	60.0	95.0	60.0			
	9.4	7158	1.8	148.84	93.0	60.0	95.0	60.0			
	11.4	5893	2.2	122.54	91.0	60.0	-	-			
	12.0	5605	2.3	116.55	94.0	60.0	95.0	60.0			
	14.6	4615	2.8	95.96	95.0	60.0	95.0	60.0	PKD 8390 132S2C / 132S2D	634	262-263
	9.4	6820	1.4	296.68	79.0	60.0	95.0	60.0			
	11.5	5615	1.8	244.25	85.0	60.0	95.0	60.0			
	18.8	3421	2.9	148.84	93.0	60.0	95.0	60.0	PKD 7390/42 132M4C / 132M4D	425	278
	7.1	9039	0.8	196.30	47.0	50.0	66.0	39.0			
	8.9	7231	0.9	157.05	54.0	50.0	66.0	39.0			
	10.4	6184	1.0	134.31	58.0	50.0	66.0	39.0	PKD 7390/42 132S2C / 132S2D	425	278
	10.4	5768	1.1	269.43	47.0	50.0	66.0	45.0			
	14.3	4202	1.3	196.30	47.0	50.0	66.0	39.0			
	17.8	3362	1.4	157.05	54.0	50.0	66.0	39.0			
	20.8	2875	1.6	134.31	58.0	50.0	66.0	39.0	PKD 7390/32 132S2C / 132S2D	408	278
	7.3	8236	0.8	384.74	37.0	50.0	66.0	50.0			
	9.0	6638	1.0	310.09	37.0	50.0	66.0	48.0	PKD 7390 160M6B / 160M6C	410	258-259
	8.2	8374	1.1	110.10	60.0	50.0	66.0	41.0			
	9.8	6955	1.3	91.45	62.0	50.0	66.0	40.0			
	11.3	6055	1.5	79.61	63.0	50.0	66.0	39.0			
	12.8	5330	1.7	70.08	64.0	50.0	66.0	38.0			
	15.4	4445	2.0	58.44	64.0	50.0	66.0	37.0			
	17.9	3825	2.3	50.29	50.0	50.0	66.0	39.0			
	21.9	3121	2.6	41.04	50.0	50.0	66.0	33.0	PKD 7390 132M4C / 132M4D	374	258-259
	6.8	9954	0.9	206.98	55.0	50.0	66.0	47.0			
	7.5	8982	0.9	186.78	49.0	50.0	66.0	42.0			
	8.9	7571	1.1	157.44	54.0	50.0	66.0	42.0			
	10.2	6572	1.0	136.65	61.0	50.0	66.0	41.0			
12.7	5295	1.6	110.10	60.0	50.0	66.0	40.0				
15.3	4398	1.9	91.45	62.0	50.0	66.0	39.0				
17.6	3829	2.2	79.61	63.0	50.0	66.0	38.0				
20.0	3370	2.5	70.08	64.0	50.0	66.0	37.0	PKD 7390 132S2C / 132S2D	374	258-259	
24.0	2810	3.0	58.44	64.0	50.0	66.0	36.0				
11.4	5645	1.1	245.55	50.0	50.0	66.0	48.0				
13.5	4758	1.4	206.98	55.0	50.0	66.0	47.0				
15.0	4294	1.5	186.78	49.0	50.0	66.0	42.0				
17.8	3619	1.8	157.44	54.0	50.0	66.0	42.0	PKD 6390/42 132M4C / 132M4D	425	278	
20.5	3141	1.6	136.65	61.0	50.0	66.0	44.0				
25.4	2531	2.6	110.10	60.0	50.0	66.0	41.0				
7.4	8667	0.8	188.23	49.0	50.0	66.0	45.0	PKD 6390/42 132M4C / 132M4D	425	278	
9.3	6934	0.9	150.60	63.0	50.0	66.0	50.0				
10.9	5930	1.0	128.79	58.0	50.0	66.0	44.0				
10.8	5531	1.1	258.36	49.0	50.0	66.0	50.0	PKD 6390/42 132S2C / 132S2D	425	278	
14.9	4029	1.4	188.23	49.0	50.0	66.0	45.0				
18.6	3224	1.5	150.60	63.0	50.0	66.0	50.0				
21.7	2757	1.7	128.79	58.0	50.0	66.0	44.0				
7.6	7897	0.8	368.93	42.0	45.0	66.0	50.0	PKD 6390/32 132S2C / 132S2D	408	278	
9.4	6365	1.0	297.35	42.0	45.0	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_{RGR} [kN]	F_{AGR} [kN]	Tip / Type / Typ IE2 / IE3					
7.50	6.0	11468	0.8	150.79	55.0	50.0	66.0	47.0	PKD 6390 160M6B / 160M6C	410	254-255			
	10.3	6670	1.3	87.70	62.0	50.0	66.0	44.0						
	11.8	5805	1.5	76.33	63.0	50.0	66.0	43.0						
	13.4	5111	1.7	67.20	63.0	50.0	66.0	42.0						
	16.1	4261	2.0	56.03	64.0	50.0	66.0	41.0						
	18.7	3668	2.3	48.23	52.0	50.0	66.0	39.0						
	22.9	2993	2.6	39.35	52.0	50.0	66.0	36.0						
	7.1	9533	0.9	198.23	56.0	50.0	66.0	50.0				PKD 6390 132M4C / 132M4D	374	254-255
	7.8	8614	1.0	179.11	51.0	50.0	66.0	48.0						
	9.3	7252	1.1	150.79	55.0	50.0	66.0	47.0						
10.8	6221	1.1	129.36	61.0	50.0	66.0	50.0							
13.3	5077	1.6	105.58	61.0	50.0	66.0	45.0							
16.0	4218	1.9	87.70	62.0	50.0	66.0	44.0							
18.3	3671	2.2	76.33	63.0	50.0	66.0	43.0							
20.8	3232	2.5	67.20	63.0	50.0	66.0	42.0							
25.0	2695	3.0	56.03	64.0	50.0	66.0	41.0							
11.9	5412	1.2	235.45	56.0	50.0	66.0	50.0	PKD 6390 132S2C / 132S2D	374	254-255				
14.1	4557	1.4	198.23	56.0	50.0	66.0	50.0							
15.6	4117	1.5	179.11	51.0	50.0	66.0	48.0							
18.6	3466	1.8	150.79	55.0	50.0	66.0	47.0							
21.6	2974	1.7	129.36	61.0	50.0	66.0	50.0							
26.5	2427	2.6	105.58	61.0	50.0	66.0	45.0							
10.2	6702	0.8	88.12	29.0	45.0	38.0	30.0	PKD 5390 160M6B / 160M6C	270	246-247				
12.5	5490	0.9	72.18	33.0	45.0	38.0	29.0							
14.4	4750	1.1	62.45	34.0	45.0	38.0	29.0							
16.5	4149	1.2	54.55	35.0	45.0	38.0	28.0							
20.0	3422	1.5	45.00	37.0	45.0	38.0	27.0							
22.6	3022	1.7	39.74	37.0	45.0	38.0	27.0							
24.9	2754	1.8	36.21	37.0	45.0	38.0	26.0							
28.7	2383	2.1	31.33	16.0	45.0	38.0	25.0							
32.9	2082	2.3	27.37	16.0	45.0	38.0	24.0							
38.5	1778	2.5	23.38	16.0	45.0	38.0	23.0							
39.9	1717	2.6	22.58	16.0	45.0	38.0	23.0							
45.1	1517	3.0	19.94	16.0	45.0	38.0	22.0							
11.7	5771	0.8	120.01	19.0	45.0	38.0	30.0				PKD 5390 132M4C / 132M4D	234	246-247	
13.7	4929	1.0	102.50	26.0	45.0	38.0	30.0							
15.9	4238	1.1	88.12	29.0	45.0	38.0	30.0							
19.4	3471	1.4	72.18	33.0	45.0	38.0	29.0							
22.4	3003	1.6	62.45	34.0	45.0	38.0	29.0							
25.7	2623	1.8	54.55	35.0	45.0	38.0	28.0							
31.1	2164	2.2	45.00	37.0	45.0	38.0	27.0							
35.2	1911	2.5	39.74	37.0	45.0	38.0	27.0							
38.7	1741	2.8	36.21	37.0	45.0	38.0	26.0							
14.1	4560	0.8	198.37	19.0	45.0	38.0	39.0	PKD 5390 132S2C / 132S2D	234	246-247				
16.5	3895	0.9	169.43	19.0	45.0	38.0	34.0							
23.3	2759	1.3	120.01	19.0	45.0	38.0	30.0							
27.3	2356	1.5	102.50	26.0	45.0	38.0	30.0							
31.8	2026	1.8	88.12	29.0	45.0	38.0	30.0							
38.8	1659	2.2	72.18	33.0	45.0	38.0	29.0							
44.8	1436	2.5	62.45	34.0	45.0	38.0	29.0							
51.3	1254	2.9	54.55	35.0	45.0	38.0	28.0							
18.9	3621	0.8	47.61	24.0	39.0	28.0	14.0				PKD 4390 160M6B / 160M6C	195	238-239	
22.2	3085	1.0	40.56	25.0	38.0	28.0	14.0							
26.2	2615	1.1	34.38	26.0	38.0	28.0	14.0							
32.2	2124	1.4	27.93	27.0	37.0	28.0	14.0							
37.7	1816	1.6	23.88	27.0	36.0	28.0	14.0							
44.2	1548	1.8	20.35	26.0	35.0	28.0	14.0							
49.3	1388	1.9	18.25	26.0	35.0	28.0	13.0							
57.4	1193	1.8	15.69	25.0	33.0	28.0	13.0							
67.1	1021	2.1	13.42	23.0	31.0	28.0	13.0							
78.7	869	1.8	11.43	23.0	31.0	28.0	12.0							
87.8	780	2.0	10.25	22.0	30.0	28.0	12.0							
95.5	716	2.2	9.42	17.0	40.0	28.0	12.0							
101.9	672	2.2	8.83	17.0	40.0	28.0	12.0							

P₁ [kW]	n₂ [Min ⁻¹]	M₂ [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{R GR} [kN]	F_{A GR} [kN]	Tip / Type / Typ IE2 / IE3	 Kg	 mm
7.50	18.4	3659	0.8	76.08	22.0	40.0	28.0	15.0	PKD 4390 132M4C / 132M4D	159	238-239
	20.4	3295	0.8	68.52	18.0	38.0	28.0	12.0			
	22.1	3040	0.9	63.21	20.0	38.0	28.0	12.0			
	25.1	2677	1.0	55.67	22.0	39.0	28.0	13.0			
	29.4	2290	1.2	47.61	24.0	39.0	28.0	14.0			
	34.5	1951	1.4	40.56	25.0	38.0	28.0	14.0			
	40.7	1653	1.7	34.38	26.0	38.0	28.0	14.0			
	50.1	1343	2.1	27.93	27.0	37.0	28.0	14.0			
	58.6	1148	2.4	23.88	27.0	36.0	28.0	14.0			
	68.8	979	2.7	20.35	26.0	35.0	28.0	14.0			
76.7	878	2.8	18.25	26.0	35.0	28.0	13.0				
89.2	755	2.7	15.69	25.0	33.0	28.0	13.0				
122.5	550	2.7	11.43	23.0	31.0	28.0	12.0				
136.6	493	3.0	10.25	22.0	30.0	28.0	12.0				
	29.3	2197	1.0	95.57	22.0	40.0	28.0	15.0	PKD 4390 132S2C / 132S2D	159	238-239
	32.4	1988	1.1	86.50	22.0	40.0	28.0	15.0			
	36.8	1749	1.2	76.08	22.0	40.0	28.0	15.0			
	40.9	1575	1.4	68.52	18.0	38.0	28.0	12.0			
	44.3	1453	1.5	63.21	20.0	38.0	28.0	12.0			
	50.3	1280	1.7	55.67	22.0	39.0	28.0	13.0			
	58.8	1094	1.9	47.61	24.0	39.0	28.0	14.0			
	69.0	932	2.3	40.56	25.0	38.0	28.0	14.0			
	81.4	790	2.7	34.38	26.0	38.0	28.0	14.0			
		34.7	1941	0.8	40.37	1.0	4.0	13.0			
47.2		1427	1.1	29.67	4.0	6.0	15.0	6.0			
55.9		1205	1.2	25.06	5.0	7.0	15.0	7.0			
58.5		1150	1.3	23.92	5.0	7.0	15.0	7.0			
69.1		974	1.5	20.25	5.0	8.0	15.0	7.0			
81.9		822	1.8	17.10	6.0	8.0	15.0	7.0			
89.0		756	1.9	15.73	6.0	8.0	15.0	7.0			
103.4		651	2.1	13.54	6.0	8.0	15.0	7.0			
110.4		610	1.6	12.68	5.0	8.0	15.0	7.0			
130.4		516	1.7	10.74	5.0	8.0	15.0	7.0			
164.7	409	2.2	8.50	5.0	8.0	15.0	7.0				
	47.3	1360	0.9	59.15	1.0	4.0	15.0	9.0	PKD 3390 132S2C / 132S2D	112	230-231
	56.1	1148	1.0	49.94	1.0	4.0	14.0	7.0			
	58.7	1096	1.1	47.67	1.0	4.0	15.0	7.0			
	69.4	928	1.3	40.37	1.0	4.0	13.0	5.0			
	94.4	682	1.7	29.67	4.0	6.0	15.0	6.0			
	111.7	576	2.0	25.06	5.0	7.0	15.0	7.0			
	117.1	550	2.1	23.92	5.0	7.0	15.0	7.0			
	138.3	465	2.4	20.25	5.0	8.0	15.0	7.0			
	163.7	393	2.8	17.10	6.0	8.0	15.0	7.0			
	178.0	362	2.9	15.73	6.0	8.0	15.0	7.0			
220.8	291	2.6	12.68	5.0	8.0	15.0	7.0				
260.7	247	2.8	10.74	5.0	8.0	15.0	7.0				
	89.7	767	0.8	15.61	5.8	10.5	-	-	PKD H 5290 132M4C / 132M4D	93	202-203
	100.9	682	0.8	13.88	4.2	8.8	-	-			
	112.9	609	0.8	12.40	5.1	8.8	-	-			
	129.0	533	1.0	10.85	5.2	8.7	-	-			
	145.2	473	1.0	9.64	5.2	8.6	-	-			
	163.6	420	1.2	8.56	5.2	8.5	-	-			
	184.5	373	1.3	7.59	5.1	8.3	-	-			
	218.1	315	1.4	6.42	5.1	8.1	-	-			
	229.1	300	1.4	6.11	5.1	7.9	-	-			
	257.8	267	1.6	5.43	5.0	7.8	-	-			
291.7	236	1.7	4.80	4.9	7.5	-	-				



P₁ [kW]	n₂ [Min ⁻¹]	M₂ [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{R GR} [kN]	F_{A GR} [kN]	Tip / Type / Typ IE2 / IE3		
7.50	110.4	604	0.8	25.37	5.8	10.5	-	-	PKD H 5290 132S2C / 132S2D	93	202-203
	126.1	529	0.9	22.20	5.8	10.5	-	-			
	141.9	470	1.0	19.73	5.8	10.5	-	-			
	157.0	425	1.0	17.84	5.8	10.5	-	-			
	179.4	372	1.2	15.61	5.8	10.5	-	-			
	201.7	331	1.2	13.88	4.2	8.8	-	-			
	225.8	295	1.3	12.40	5.1	8.8	-	-			
	258.1	258	1.5	10.85	5.2	8.7	-	-			
	290.5	230	1.6	9.64	5.2	8.6	-	-			
	327.1	204	1.8	8.56	5.2	8.5	-	-			
	368.9	181	2.0	7.59	5.1	8.3	-	-			
	436.1	153	2.2	6.42	5.1	8.1	-	-			
	458.3	146	2.2	6.11	5.1	7.9	-	-			
	515.7	129	2.5	5.43	5.0	7.8	-	-			
	583.3	114	2.7	4.80	4.9	7.5	-	-			
	161.5	426	0.8	8.67	4.8	8.8	-	-	PKD F 4290 132M4C / 132M4D	81	198-199
	181.6	379	0.8	7.71	4.0	7.6	-	-			
	205.9	334	0.9	6.80	4.6	7.5	-	-			
	236.5	291	1.0	5.92	4.8	7.3	-	-			
	256.9	268	1.0	5.45	4.8	7.3	-	-			
	288.7	238	1.1	4.85	4.7	7.1	-	-			
	199.0	335	0.8	14.07	4.8	8.8	-	-	PKD F 4290 132S2C / 132S2D	81	198-199
	221.7	301	0.9	12.63	4.8	8.8	-	-			
	255.0	262	1.0	10.98	4.8	8.8	-	-			
	286.9	232	1.0	9.76	4.8	8.8	-	-			
	323.0	207	1.2	8.67	4.8	8.8	-	-			
	363.2	184	1.3	7.71	4.0	7.6	-	-			
	411.8	162	1.4	6.80	4.6	7.5	-	-			
	473.0	141	1.5	5.92	4.8	7.3	-	-			
	513.8	130	1.6	5.45	4.8	7.3	-	-			
577.3	116	1.7	4.85	4.7	7.1	-	-				
9.20	1.6	44957	0.8	1774.21	-	-	-	-	PKD G 9390/63 132M2	1828	282
	1.3	63615	0.8	702.80	-	-	-	-	PKD G 9390/62 160M6	1866	282
	1.5	55001	1.0	607.63	-	-	-	-			
	1.7	48728	1.1	538.33	-	-	-	-			
	1.9	42925	1.2	474.22	-	-	-	-			
	2.1	39013	1.3	431.00	-	-	-	-			
	2.4	33577	1.6	370.95	-	-	-	-			
	2.8	29031	1.8	320.72	-	-	-	-			
	3.0	26899	2.0	297.17	-	-	-	-			
	3.3	24448	2.1	270.09	-	-	-	-			
	3.9	21137	2.5	233.51	-	-	-	-			
	1.2	65813	0.8	1165.22	-	-	-	-	PKD G 9390/62 132M4	1830	282
	1.4	55313	0.9	979.31	-	-	-	-			
	1.7	46121	1.1	816.57	-	-	-	-			
	2.0	39695	1.3	702.80	-	-	-	-			
	2.3	34320	1.5	607.63	-	-	-	-			
	2.6	30406	1.6	538.33	-	-	-	-			
	3.0	26785	1.9	474.22	-	-	-	-			
	3.2	24343	2.1	431.00	-	-	-	-			
	3.8	20952	2.4	370.95	-	-	-	-			
4.4	18115	2.8	320.72	-	-	-	-				
4.7	16785	3.0	297.17	-	-	-	-				
1.7	42635	0.9	1623.67	-	-	-	-	PKD G 9390/62 132M2	1830	282	
2.1	35550	1.1	1353.86	-	-	-	-				
2.4	30597	1.2	1165.22	-	-	-	-				
2.9	25715	1.5	979.31	-	-	-	-				
3.4	21442	1.8	816.57	-	-	-	-				
4.0	18454	2.1	702.80	-	-	-	-				
4.6	15955	2.4	607.63	-	-	-	-				
5.2	14136	2.7	538.33	-	-	-	-				

P_1 [kW]	n_2 [Min ⁻¹]	M_2 [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{RGR} [kN]	F_{AGR} [kN]	Tip / Type / Typ IE2 / IE3		
9.20	2.0	40212	0.8	444.25	134.0	70.0	160.0	70.0	PKD 9390/52 160M6	1566	280
	2.3	34960	1.0	386.23	141.0	70.0	160.0	70.0			
	3.2	25471	1.3	281.40	149.0	70.0	160.0	70.0			
	4.0	20200	1.7	223.16	85.0	70.0	160.0	70.0			
	4.7	17359	1.9	191.78	85.0	70.0	160.0	70.0			
	2.0	39906	0.8	706.54	86.0	70.0	160.0	70.0	PKD 9390/52 132M4	1530	280
	2.3	34440	0.9	609.75	108.0	70.0	160.0	70.0			
	3.2	25092	1.3	444.25	134.0	70.0	160.0	70.0			
	3.6	21815	1.5	386.23	141.0	70.0	160.0	70.0			
	5.0	15894	2.0	281.40	149.0	70.0	160.0	70.0			
	2.5	29392	0.8	1119.32	86.0	70.0	160.0	70.0	PKD 9390/52 132M2	1530	280
	3.3	22215	1.1	846.00	86.0	70.0	160.0	70.0			
	4.0	18553	1.3	706.54	86.0	70.0	160.0	70.0			
	4.6	16011	1.5	609.75	108.0	70.0	160.0	70.0			
	6.3	11665	2.1	444.25	134.0	70.0	160.0	70.0			
	7.2	10142	2.4	386.23	141.0	70.0	160.0	70.0			
	4.5	18712	2.8	200.57	220.0	100.0	-	-	PKD G 9390 160M6	1735	274-275
	3.0	27782	1.2	297.79	143.0	70.0	160.0	70.0	PKD 9390 160M6	1490	270-271
	3.6	23628	1.4	253.26	143.0	70.0	160.0	70.0			
	4.6	18437	1.8	197.62	143.0	70.0	160.0	70.0			
	5.9	14284	2.4	153.11	143.0	70.0	160.0	70.0			
	7.5	11218	3.0	120.24	143.0	70.0	160.0	70.0			
	4.7	17567	1.8	297.79	-	-	-	-	PKD 9390 132M4	1454	270-271
	5.5	14940	2.1	253.26	-	-	-	-			
	9.4	8397	2.9	297.79	143.0	70.0	160.0	70.0	PKD 9390 132M2	1454	270-271
	3.3	24607	0.9	271.85	106.0	65.0	120.0	65.0	PKD G 8390/52 160M6	996	280
	3.8	21394	1.0	236.35	110.0	65.0	120.0	65.0			
	5.2	15586	1.3	172.19	116.0	65.0	120.0	65.0			
	6.2	13111	1.4	144.85	118.0	65.0	120.0	65.0			
	3.7	21433	0.8	379.47	86.0	65.0	120.0	65.0			
	5.1	15354	1.2	271.85	106.0	65.0	120.0	65.0			
	5.9	13349	1.3	236.35	110.0	65.0	120.0	65.0			
	8.1	9726	1.9	172.19	116.0	65.0	120.0	65.0			
	9.7	8181	2.2	144.85	118.0	65.0	120.0	65.0			
	3.9	18771	0.8	714.84	86.0	65.0	120.0	65.0	PKD G 8390/52 132M2	960	280
	4.5	16376	0.9	623.65	86.0	65.0	120.0	65.0			
	6.4	11421	1.3	434.96	86.0	65.0	120.0	65.0			
	7.4	9964	1.5	379.47	86.0	65.0	120.0	65.0			
	10.3	7138	2.1	271.85	106.0	65.0	120.0	65.0			
	11.8	6206	2.4	236.35	110.0	65.0	120.0	65.0			
	4.9	16503	0.8	182.32	94.0	60.0	95.0	60.0	PKD 8390/52 160M6	746	280
	6.1	13247	1.0	146.35	94.0	60.0	-	-			
	7.3	11192	1.1	123.64	94.0	60.0	-	-			
	5.7	13920	0.9	246.45	-	-	-	-	PKD 8390/52 132M4	710	280
7.7	10298	1.3	182.32	-	-	-	-				
9.6	8266	1.6	146.35	-	-	-	-				
11.3	6983	1.7	123.64	-	-	-	-				
11.4	6471	1.5	246.45	94.0	60.0	-	-	PKD 8390/52 132M2	710	280	
15.4	4787	2.1	182.32	94.0	60.0	95.0	-				
19.1	3843	2.6	146.35	94.0	60.0	-	-				
22.6	3247	2.8	123.64	94.0	60.0	-	-				
4.9	16155	0.8	286.02	71.0	60.0	95.0	60.0	PKD 8390/42 132M4	685	280	
6.3	11668	0.8	444.35	71.0	60.0	95.0	60.0	PKD 8390/42 132M2	685	280	
7.4	9978	1.0	379.99	71.0	60.0	95.0	60.0				
9.8	7510	1.3	286.02	71.0	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_{RGR} [kN]	F_{AGR} [kN]	Tip / Type / Typ IE2 / IE3		
9.20	3.9	21521	1.0	230.68	111.0	65.0	120.0	65.0	PKD G 8390 160M6	920	266-267
	4.6	18103	1.2	194.04	115.0	65.0	120.0	65.0			
	5.9	14169	1.5	151.87	120.0	65.0	120.0	65.0			
	7.0	11918	1.8	127.75	120.0	65.0	120.0	65.0			
	7.7	10880	1.9	116.62	120.0	65.0	120.0	65.0			
	9.9	8455	2.5	90.63	115.0	65.0	120.0	65.0			
	11.5	7309	2.9	78.34	115.0	65.0	120.0	65.0	PKD G 8390 132M4	884	266-267
	6.1	13608	1.5	230.68	111.0	65.0	120.0	65.0			
	7.2	11447	1.7	194.04	115.0	65.0	120.0	65.0			
	12.0	6880	2.9	116.62	120.0	65.0	120.0	65.0	PKD G 8390 132M2	884	266-267
	12.1	6505	2.3	230.68	111.0	65.0	120.0	65.0			
	14.4	5471	2.8	194.04	115.0	65.0	120.0	65.0	PKD 8390 160M6	670	262-263
	6.0	13886	1.0	148.84	91.0	60.0	95.0	60.0			
	7.3	11432	1.2	122.54	93.0	60.0	95.0	60.0			
	7.7	10874	1.3	116.55	93.0	60.0	95.0	60.0			
	9.4	8953	1.5	95.96	94.0	60.0	95.0	60.0			
	10.8	7739	1.8	82.95	95.0	60.0	95.0	60.0			
	12.6	6676	2.0	71.56	79.0	60.0	95.0	60.0			
	14.4	5824	2.3	62.43	79.0	60.0	95.0	60.0			
	16.9	4981	2.7	53.39	79.0	60.0	95.0	60.0			
	5.7	14409	0.9	244.25	79.0	60.0	95.0	60.0			
	9.4	8780	1.5	148.84	91.0	60.0	95.0	60.0			
	11.4	7229	1.8	122.54	-	-	-	-			
	12.0	6875	1.9	116.55	93.0	60.0	95.0	60.0			
	14.6	5661	2.3	95.96	94.0	60.0	95.0	60.0			
	16.9	4893	2.7	82.95	95.0	60.0	95.0	60.0	PKD 8390 132M2	634	262-263
	9.4	8366	1.1	296.68	79.0	60.0	95.0	60.0			
	11.5	6887	1.4	244.25	79.0	60.0	95.0	60.0			
	18.8	4197	2.4	148.84	91.0	60.0	95.0	60.0			
	22.8	3455	2.9	122.54	93.0	60.0	95.0	60.0			
	24.0	3286	3.0	116.55	93.0	60.0	95.0	60.0	PKD 7390/42 132M4	425	278
	10.4	7586	0.8	134.31	-	-	66.0	39.0			
	10.4	7075	0.9	269.43	47.0	50.0	66.0	45.0	PKD 7390/42 132M2	425	278
	14.3	5155	1.1	196.30	47.0	50.0	66.0	39.0			
	17.8	4124	1.2	157.05	47.0	50.0	66.0	39.0			
	20.8	3527	1.3	134.31	47.0	50.0	66.0	39.0			
	9.0	8142	0.8	310.09	37.0	50.0	66.0	48.0	PKD 7390/32 132M2	408	278
	8.2	10272	0.9	110.10	58.0	50.0	66.0	38.0	PKD 7390 160M6	410	258-259
	9.8	8532	1.0	91.45	60.0	50.0	66.0	38.0			
	11.3	7427	1.2	79.61	62.0	50.0	66.0	37.0			
	12.8	6538	1.4	70.08	63.0	50.0	66.0	37.0			
	15.4	5452	1.6	58.44	64.0	50.0	66.0	35.0			
17.9	4692	1.8	50.29	64.0	50.0	66.0	35.0				
21.9	3829	2.1	41.04	55.0	50.0	66.0	33.0				
25.6	3280	2.7	35.16	55.0	50.0	66.0	31.0				
7.5	11018	0.8	186.78	37.0	50.0	66.0	38.0	PKD 7390 132M4			
8.9	9288	0.9	157.44	48.0	50.0	66.0	38.0				
10.2	8061	0.8	136.65	-	-	-	-				
12.7	6495	1.3	110.10	58.0	50.0	66.0	38.0				
15.3	5395	1.6	91.45	60.0	50.0	66.0	38.0				
17.6	4696	1.8	79.61	62.0	50.0	66.0	37.0				
20.0	4134	2.1	70.08	63.0	50.0	66.0	37.0				
24.0	3447	2.5	58.44	64.0	50.0	66.0	35.0				
27.8	2967	2.8	50.29	64.0	50.0	66.0	35.0				

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 / Typ IE2 / IE3					
9.20	11.4	6924	0.9	245.55	37.0	50.0	66.0	48.0	PKD 7390 132M2	374	258-259			
	13.5	5836	1.1	206.98	37.0	50.0	66.0	47.0						
	15.0	5267	1.2	186.78	37.0	50.0	66.0	38.0						
	17.8	4439	1.5	157.44	48.0	50.0	66.0	38.0						
	20.5	3853	1.3	136.65	58.0	50.0	66.0	44.0						
	25.4	3105	2.1	110.10	58.0	50.0	66.0	38.0						
	30.6	2579	2.5	91.45	60.0	50.0	66.0	38.0						
	35.2	2245	2.9	79.61	62.0	50.0	66.0	37.0						
	10.9	7274	0.8	128.79	-	-	66.0	44.0				PKD 6390/42 132M4	425	278
	10.8	6784	0.9	258.36	49.0	50.0	66.0	50.0				PKD 6390/42 132M2	425	278
	14.9	4943	1.1	188.23	49.0	50.0	66.0	45.0						
	18.6	3955	1.2	150.60	49.0	50.0	-	-						
	21.7	3382	1.3	128.79	49.0	50.0	66.0	44.0						
	9.4	7808	0.8	297.35	42.0	45.0	66.0	50.0						
	10.3	8182	1.1	87.70	61.0	50.0	66.0	42.0				PKD 6390 160M6	410	254-255
	11.8	7121	1.2	76.33	62.0	50.0	66.0	41.0						
	13.4	6269	1.4	67.20	63.0	50.0	66.0	41.0						
	16.1	5227	1.6	56.03	63.0	50.0	66.0	39.0						
	18.7	4500	1.8	48.23	64.0	50.0	66.0	38.0						
	22.9	3671	2.1	39.35	56.0	50.0	66.0	36.0						
	26.7	3145	2.7	33.71	56.0	50.0	66.0	35.0						
	7.8	10566	0.8	179.11	41.0	50.0	66.0	44.0	PKD 6390 132M4	374	254-255			
	9.3	8895	0.9	150.79	49.0	50.0	66.0	44.0						
	10.8	7631	0.9	129.36	-	-	-	-						
	13.3	6228	1.3	105.58	58.0	50.0	66.0	43.0						
	16.0	5174	1.6	87.70	61.0	50.0	66.0	42.0						
	18.3	4503	1.8	76.33	62.0	50.0	66.0	41.0						
	20.8	3964	2.1	67.20	63.0	50.0	66.0	41.0						
	25.0	3305	2.5	56.03	63.0	50.0	66.0	39.0						
	29.0	2845	2.8	48.23	64.0	50.0	66.0	38.0						
	11.9	6639	0.9	235.45	41.0	50.0	66.0	50.0				PKD 6390 132M2	374	254-255
	14.1	5590	1.1	198.23	41.0	50.0	66.0	50.0						
	15.6	5051	1.2	179.11	41.0	50.0	66.0	44.0						
	18.6	4252	1.5	150.79	49.0	50.0	66.0	44.0						
	21.6	3648	1.4	129.36	58.0	50.0	66.0	50.0						
	26.5	2977	2.1	105.58	58.0	50.0	66.0	43.0						
	31.9	2473	2.5	87.70	61.0	50.0	66.0	42.0						
	36.7	2152	2.9	76.33	62.0	50.0	66.0	41.0						
	14.4	5826	0.9	62.45	32.0	45.0	38.0	27.0	PKD 5390 160M6	270	246-247			
	16.5	5089	1.0	54.55	34.0	45.0	38.0	27.0						
	20.0	4198	1.2	45.00	35.0	45.0	38.0	26.0						
	22.6	3708	1.4	39.74	36.0	45.0	38.0	26.0						
	24.9	3378	1.5	36.21	37.0	45.0	38.0	25.0						
	28.7	2923	1.7	31.33	37.0	45.0	38.0	25.0						
	32.9	2553	1.9	27.37	38.0	45.0	38.0	24.0						
38.5	2181	2.1	23.38	19.0	45.0	38.0	23.0							
39.9	2107	2.1	22.58	19.0	45.0	38.0	23.0							
45.1	1860	2.4	19.94	19.0	45.0	38.0	22.0							
50.1	1675	2.7	17.95	19.0	45.0	38.0	22.0							
55.0	1527	3.0	16.37	19.0	45.0	38.0	21.0							
83.8	1002	3.0	10.74	19.0	45.0	38.0	19.0							
13.7	6047	0.8	102.50	-	-	38.0	30.0	PKD 5390 132M4				234	246-247	
15.9	5198	0.9	88.12	23.0	45.0	38.0	27.0							
19.4	4258	1.1	72.18	30.0	45.0	38.0	27.0							
22.4	3684	1.3	62.45	32.0	45.0	38.0	27.0							
25.7	3218	1.5	54.55	34.0	45.0	38.0	27.0							
31.1	2655	1.8	45.00	35.0	45.0	38.0	26.0							
35.2	2344	2.0	39.74	36.0	45.0	38.0	26.0							
38.7	2136	2.2	36.21	37.0	45.0	38.0	25.0							
44.7	1848	2.6	31.33	37.0	45.0	38.0	25.0							
51.2	1615	2.8	27.37	38.0	45.0	38.0	24.0							

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 / Typ IE2 / IE3	Kg	mm
9.20	16.5	4778	0.8	169.43	23.0	45.0	38.0	34.0	PKD 5390 132M2	234	246-247
	23.3	3384	1.1	120.01	23.0	45.0	38.0	33.0			
	27.3	2890	1.3	102.50	23.0	45.0	38.0	33.0			
	31.8	2485	1.5	88.12	23.0	45.0	38.0	32.0			
	38.8	2035	1.8	72.18	30.0	45.0	38.0	31.0			
	44.8	1761	2.1	62.45	32.0	45.0	38.0	31.0			
	51.3	1538	2.4	54.55	34.0	45.0	38.0	30.0			
	62.2	1269	2.9	45.00	35.0	45.0	38.0	29.0			
	22.2	3784	0.8	40.56	23.0	36.0	28.0	10.0	PKD 4390 160M6	195	246-247
	26.2	3207	0.9	34.38	25.0	35.0	28.0	11.0			
	32.2	2606	1.1	27.93	26.0	35.0	28.0	12.0			
	37.7	2228	1.3	23.88	26.0	34.0	28.0	12.0			
	44.2	1899	1.4	20.35	26.0	34.0	28.0	12.0			
	49.3	1703	1.5	18.25	25.0	33.0	28.0	12.0			
	57.4	1464	1.4	15.69	24.0	32.0	28.0	11.0			
	67.1	1252	1.7	13.42	23.0	31.0	28.0	11.0			
	78.7	1066	1.5	11.43	22.0	30.0	28.0	11.0			
	87.8	956	1.6	10.25	22.0	30.0	28.0	11.0			
	95.5	879	1.8	9.42	21.0	29.0	28.0	11.0			
	101.9	824	1.8	8.83	21.0	29.0	28.0	11.0			
	22.1	3729	0.8	63.21	-	-	28.0	12.0	PKD 4390 132M4	159	238-239
	25.1	3284	0.9	55.67	18.0	35.0	28.0	11.0			
	29.4	2809	1.0	47.61	21.0	35.0	28.0	12.0			
	34.5	2393	1.2	40.56	23.0	36.0	28.0	12.0			
	40.7	2028	1.4	34.38	25.0	35.0	28.0	13.0			
	50.1	1648	1.7	27.93	26.0	35.0	28.0	13.0			
	58.6	1409	1.9	23.88	26.0	34.0	28.0	13.0			
	68.8	1200	2.2	20.35	26.0	34.0	28.0	13.0			
	76.7	1077	2.3	18.25	25.0	33.0	28.0	13.0			
	89.2	926	2.2	15.69	24.0	32.0	28.0	12.0			
	104.3	792	2.5	13.42	23.0	31.0	28.0	12.0			
	122.5	674	2.2	11.43	22.0	30.0	28.0	12.0			
	136.6	605	2.5	10.25	22.0	30.0	28.0	12.0			
	148.6	556	2.7	9.42	21.0	29.0	28.0	11.0			
	158.6	521	2.7	8.83	21.0	29.0	28.0	11.0			
	29.3	2695	0.8	95.57	18.0	35.0	28.0	15.0	PKD 4390 132M2	159	238-239
	32.4	2439	0.9	86.50	18.0	35.0	28.0	15.0			
	36.8	2145	1.0	76.08	18.0	35.0	28.0	15.0			
	40.9	1932	1.1	68.52	18.0	35.0	28.0	16.0			
	44.3	1782	1.2	63.21	18.0	35.0	28.0	16.0			
	50.3	1570	1.4	55.67	18.0	35.0	28.0	16.0			
	58.8	1342	1.6	47.61	21.0	35.0	28.0	16.0			
	69.0	1144	1.9	40.56	23.0	36.0	28.0	16.0			
	81.4	969	2.2	34.38	25.0	35.0	28.0	16.0			
	100.3	788	2.7	27.93	26.0	35.0	28.0	15.0			
	117.3	673	3.0	23.88	26.0	34.0	28.0	15.0			
	47.2	1750	0.9	29.67	2.0	4.0	15.0	5.0	PKD 3390 132M/4	112	230-231
55.9	1478	1.0	25.06	3.0	5.0	15.0	5.0				
58.5	1411	1.1	23.92	4.0	5.0	15.0	6.0				
69.1	1195	1.3	20.25	4.0	6.0	15.0	6.0				
81.9	1009	1.4	17.10	5.0	6.0	15.0	6.0				
89.0	928	1.5	15.73	5.0	7.0	15.0	6.0				
103.4	799	1.7	13.54	5.0	7.0	15.0	6.0				
110.4	748	1.3	12.68	5.0	6.0	15.0	6.0				
130.4	634	1.4	10.74	5.0	6.0	15.0	6.0				
164.7	501	1.8	8.50	5.0	7.0	15.0	6.0				



P_1 [kW]	n_2 [Min ⁻¹]	M_2 [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{RGR} [kN]	F_{AGR} [kN]	Tip / Type / Typ IE2 / IE3		
9.20	56.1	1408	0.8	49.94	2.0	4.0	14.0	7.0	PKD 3390 132M/2	112	230-231
	58.7	1344	0.9	47.67	2.0	4.0	15.0	7.0			
	69.4	1138	1.0	40.37	2.0	4.0	15.0	8.0			
	94.4	837	1.4	29.67	2.0	4.0	15.0	8.0			
	111.7	707	1.6	25.06	3.0	5.0	15.0	8.0			
	117.1	674	1.7	23.92	4.0	5.0	15.0	8.0			
	138.3	571	2.0	20.25	4.0	6.0	15.0	8.0			
	163.7	482	2.3	17.10	5.0	6.0	15.0	8.0			
	178.0	444	2.4	15.73	5.0	7.0	15.0	8.0			
	206.8	382	2.7	13.54	5.0	7.0	15.0	8.0			
	220.8	358	2.1	12.68	5.0	6.0	15.0	8.0			
	260.7	303	2.3	10.74	5.0	6.0	15.0	7.0			
	329.4	240	2.8	8.50	5.0	7.0	15.0	7.0			
	129.0	654	0.8	10.85	4.4	7.7	-	-	PKD H 5290 132M4	93	202-203
	145.2	581	0.9	9.64	4.6	7.7	-	-			
	163.6	516	1.0	8.56	4.6	7.7	-	-			
	184.5	457	1.0	7.59	4.7	7.6	-	-			
	218.1	387	1.2	6.42	4.7	7.5	-	-			
	229.1	368	1.1	6.11	4.7	7.4	-	-			
	257.8	327	1.3	5.43	4.6	7.2	-	-			
	291.7	289	1.4	4.80	4.6	7.1	-	-			
	141.9	577	0.8	19.73	4.4	7.7	-	-	PKD H 5290 132M2	93	202-203
	157.0	521	0.9	17.84	4.4	7.7	-	-			
	179.4	456	1.0	15.61	4.4	7.7	-	-			
	201.7	406	1.0	13.88	4.4	7.7	-	-			
	225.8	362	1.1	12.40	4.4	7.7	-	-			
	258.1	317	1.2	10.85	4.4	7.7	-	-			
	290.5	282	1.3	9.64	4.6	7.7	-	-			
	327.1	250	1.5	8.56	4.6	7.7	-	-			
	368.9	222	1.6	7.59	4.7	7.6	-	-			
	436.1	188	1.8	6.42	4.7	7.5	-	-			
	458.3	179	1.8	6.11	4.7	7.4	-	-			
	515.7	159	2.0	5.43	4.6	7.2	-	-			
	583.3	140	2.2	4.80	4.6	7.1	-	-			
	236.5	357	0.8	5.92	4.3	6.7	-	-	PKD F 4290 132M4	81	198-199
	256.9	328	0.8	5.45	4.4	6.7	-	-			
288.7	292	0.9	4.85	4.4	6.5	-	-				
255.0	321	0.8	10.98	4.3	6.7	-	-	PKD F 4290 132M2	81	198-199	
286.9	285	0.9	9.76	4.3	6.7	-	-				
323.0	253	1.0	8.67	4.3	6.7	-	-				
363.2	225	1.0	7.71	4.3	6.7	-	-				
411.8	199	1.1	6.80	4.3	6.7	-	-				
473.0	173	1.2	5.92	4.3	6.7	-	-				
513.8	159	1.3	5.45	4.4	6.7	-	-				
577.3	142	1.4	4.85	4.4	6.5	-	-				
11.0	1.5	65762	0.8	607.63	-	-	-	-	PKD G 9390/62 160L6B / 160L6D	1866	282
	1.7	58262	0.9	538.33	-	-	-	-			
	1.9	51323	1.0	474.22	-	-	-	-			
	2.1	46646	1.1	431.00	-	-	-	-			
	2.4	40147	1.3	370.95	-	-	-	-			
	2.8	34710	1.5	320.72	-	-	-	-			
	3.0	32162	1.6	297.17	-	-	-	-			
	3.3	29231	1.8	270.09	-	-	-	-			
	3.9	25272	2.1	233.51	-	-	-	-			
	1.4	66135	0.8	979.31	-	-	-	-	PKD G 9390/62 160M4C	1866	282
	1.7	55145	0.9	816.57	-	-	-	-			
	2.0	47462	1.1	702.80	-	-	-	-			
	2.3	41035	1.2	607.63	-	-	-	-			
	2.6	36355	1.4	538.33	-	-	-	-			
	3.0	32025	1.6	474.22	-	-	-	-			
	3.2	29106	1.7	431.00	-	-	-	-			
	3.8	25051	2.0	370.95	-	-	-	-			
	4.4	21659	2.3	320.72	-	-	-	-			
4.7	20069	2.5	297.17	-	-	-	-				
5.2	18240	2.7	270.09	-	-	-	-				



P_1 [kW]	n_2 [Min ⁻¹]	M_2 [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{RGR} [kN]	F_{AGR} [kN]	Tip / Type / Typ IE2 / IE3		
11.0	2.1	42506	0.9	1353.86	-	-	-	-	PKD G 9390/62 160M2B / 160M2C	1866	282
	2.4	36583	1.0	1165.22	-	-	-	-			
	2.9	30746	1.2	979.31	-	-	-	-			
	3.4	25637	1.5	816.57	-	-	-	-			
	4.0	22065	1.7	702.80	-	-	-	-			
	4.6	19077	2.0	607.63	-	-	-	-			
	5.2	16901	2.2	538.33	-	-	-	-			
	5.9	14889	2.6	474.22	-	-	-	-			
	6.5	13532	2.8	431.00	-	-	-	-			
	2.3	41800	0.8	386.23	132.0	70.0	160.0	70.0	PKD 9390/52 160L6B / 160L6D	1566	280
	3.2	30455	1.1	281.40	116.0	70.0	160.0	70.0			
	4.0	24152	1.4	223.16	153.0	70.0	160.0	70.0			
	4.7	20756	1.6	191.78	154.0	70.0	160.0	70.0			
	2.3	41178	0.8	609.75	127.0	70.0	160.0	70.0	PKD 9390/52 160M4C	1566	280
	3.2	30001	1.1	444.25	122.0	70.0	160.0	70.0			
	3.6	26083	1.2	386.23	132.0	70.0	160.0	70.0			
	5.0	19004	1.7	281.40	116.0	70.0	160.0	70.0			
	6.3	15070	2.1	223.16	153.0	70.0	160.0	70.0			
	7.3	12951	2.5	191.78	154.0	70.0	160.0	70.0			
	3.3	26561	0.9	846.00	127.0	70.0	160.0	70.0	PKD 9390/52 160M2B / 160M2C	1566	280
	4.0	22183	1.1	706.54	127.0	70.0	160.0	70.0			
	4.6	19144	1.3	609.75	127.0	70.0	160.0	70.0			
	6.3	13948	1.7	444.25	122.0	70.0	160.0	70.0			
	7.2	12126	2.0	386.23	132.0	70.0	160.0	70.0			
	10.0	8835	2.8	281.40	116.0	70.0	160.0	70.0			
	4.5	22373	2.3	200.57	220.0	100.0	-	-	PKD G 9390 160L6B / 160L6D	1735	274-275
	5.2	19344	2.7	173.41	220.0	100.0	-	-			
	3.0	33218	1.0	297.79	143.0	70.0	160.0	70.0	PKD 9390 160L6B / 160L6D	1490	270-271
	3.6	28251	1.2	253.26	148.0	70.0	160.0	70.0			
	4.6	22044	1.5	197.62	152.0	70.0	160.0	70.0			
	5.9	17079	2.0	153.11	155.0	70.0	160.0	70.0			
	7.5	13413	2.5	120.24	143.0	70.0	160.0	70.0			
	8.8	11419	2.9	102.37	143.0	70.0	160.0	70.0			
	4.7	21004	1.5	297.79	143.0	70.0	160.0	70.0			
	5.5	17863	1.8	253.26	148.0	70.0	160.0	70.0	PKD 9390 160M4C	1490	270-271
	7.1	13939	2.3	197.62	152.0	70.0	160.0	70.0			
	9.1	10799	3.0	153.11	155.0	70.0	160.0	70.0			
	9.4	10040	2.4	297.79	143.0	70.0	160.0	70.0			
	11.1	8539	2.8	253.26	148.0	70.0	160.0	70.0	PKD 9390 160M2B / 160M2C	1490	270-271
	3.8	25579	0.8	236.35	105.0	65.0	120.0	65.0	PKD G 8390/52 160L6B / 160L6D	996	280
	5.2	18636	1.1	172.19	114.0	65.0	120.0	65.0			
	6.2	15677	1.2	144.85	116.0	65.0	120.0	65.0			
	5.1	18359	1.0	271.85	98.0	65.0	120.0	65.0	PKD G 8390/52 160M4C	996	280
	5.9	15961	1.1	236.35	105.0	65.0	120.0	65.0			
	8.1	11628	1.5	172.19	114.0	65.0	120.0	65.0			
9.7	9782	1.8	144.85	116.0	65.0	120.0	65.0				
4.5	19580	0.8	623.65	98.0	65.0	-	-	PKD G 8390/52 160M2B / 160M2C	996	280	
6.4	13656	1.1	434.96	98.0	65.0	120.0	65.0				
7.4	11914	1.3	379.47	98.0	65.0	120.0	65.0				
10.3	8535	1.8	271.85	98.0	65.0	120.0	65.0				
11.8	7420	2.0	236.35	105.0	65.0	120.0	65.0				
16.3	5406	2.8	172.19	114.0	65.0	120.0	65.0				
19.3	4548	3.0	144.85	116.0	65.0	120.0	65.0				
6.1	15839	0.9	146.35	95.0	60.0	-	-				PKD 8390/52 160L6B / 160L6D
7.3	13381	0.9	123.64	79.0	60.0	95.0	60.0				

P₁ [kW]	n₂ [Min ⁻¹]	M₂ [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{R GR} [kN]	F_{A GR} [kN]	Tip / Type / Typ IE2 / IE3	 kg	 mm
11.0	5.7	16643	0.8	246.45	94.0	60.0	-	-	PKD 8390/52 160M4C	746	280
	7.7	12312	1.1	182.32	83.0	60.0	95.0	60.0			
	9.6	9883	1.3	146.35	95.0	60.0	-	-			
	11.3	8350	1.4	123.64	79.0	60.0	-	-			
	11.4	7738	1.3	246.45	94.0	60.0	-	-	PKD 8390/52 160M2B / 160M2C	746	280
	15.4	5724	1.7	182.32	83.0	60.0	95.0	60.0			
	19.1	4595	2.2	146.35	95.0	60.0	-	-			
	22.6	3882	2.3	123.64	79.0	60.0	-	-			
	7.4	11930	0.8	379.99	71.0	60.0	-	-	PKD 8390/42 160M2B / 160M2C	721	280
	9.8	8980	1.1	286.02	71.0	60.0	95.0	60.0			
	3.9	25732	0.8	230.68	105.0	65.0	120.0	65.0	PKD G 8390 160L6B / 160L6D	920	266-267
	4.6	21645	1.0	194.04	111.0	65.0	120.0	65.0			
	5.9	16941	1.2	151.87	116.0	65.0	120.0	65.0			
	7.0	14250	1.5	127.75	117.0	65.0	120.0	65.0			
	7.7	13009	1.6	116.62	119.0	65.0	120.0	65.0			
	9.9	10110	2.1	90.63	111.0	65.0	120.0	65.0			
	11.5	8739	2.4	78.34	111.0	65.0	-	-			
	13.3	7538	2.8	67.58	111.0	65.0	120.0	65.0			
	6.1	16271	1.2	230.68	105.0	65.0	120.0	65.0	PKD G 8390 160M4C	920	266-267
	7.2	13686	1.5	194.04	111.0	65.0	120.0	65.0			
	9.2	10712	1.9	151.87	116.0	65.0	120.0	65.0			
	11.0	9011	2.2	127.75	117.0	65.0	120.0	65.0			
	12.0	8226	2.4	116.62	119.0	65.0	120.0	65.0			
	12.1	7777	2.0	230.68	105.0	65.0	120.0	65.0	PKD G 8390 160M2B / 160M2C	920	266-267
	14.4	6542	2.3	194.04	111.0	65.0	120.0	65.0			
	18.4	5120	3.0	151.87	116.0	65.0	120.0	65.0			
	6.0	16603	0.8	148.84	88.0	60.0	95.0	60.0	PKD 8390 160L6B / 160L6D	670	262-263
	7.3	13669	1.0	122.54	91.0	60.0	95.0	60.0			
	7.7	13001	1.0	116.55	92.0	60.0	95.0	60.0			
	9.4	10704	1.3	95.96	93.0	60.0	95.0	60.0			
	10.8	9253	1.5	82.95	94.0	60.0	95.0	60.0			
	12.6	7982	1.7	71.56	95.0	60.0	95.0	60.0			
	14.4	6964	2.0	62.43	95.0	60.0	95.0	60.0			
	16.9	5956	2.3	53.39	79.0	60.0	95.0	60.0			
	20.1	4990	2.7	44.73	79.0	60.0	95.0	60.0			
	21.6	4642	2.9	41.61	79.0	60.0	95.0	60.0			
5.7	17228	0.8	244.25	79.0	60.0	95.0	60.0	PKD 8390 160M4C			
9.4	10498	1.2	148.84	88.0	60.0	95.0	60.0				
11.4	8643	1.5	122.54	91.0	60.0	95.0	60.0				
12.0	8221	1.6	116.55	92.0	60.0	95.0	60.0				
14.6	6768	1.9	95.96	93.0	60.0	95.0	60.0				
16.9	5851	2.2	82.95	94.0	60.0	95.0	60.0				
19.6	5047	2.6	71.56	95.0	60.0	95.0	60.0				
22.4	4403	3.0	62.43	95.0	60.0	95.0	60.0				
9.4	10002	1.0	296.68	79.0	60.0	95.0	60.0	PKD 8390 160M2B / 160M2C	670	262-263	
11.5	8235	1.2	244.25	79.0	60.0	95.0	60.0				
18.8	5018	2.0	148.84	88.0	60.0	95.0	60.0				
22.8	4131	2.4	122.54	91.0	60.0	95.0	60.0				
24.0	3929	2.5	116.55	92.0	60.0	95.0	60.0				
10.4	8459	0.8	269.43	47.0	50.0	-	-	PKD 7390/42 160M2B / 160M2C	461	278	
14.3	6163	0.9	196.30	47.0	50.0	66.0	39.0				
17.8	4931	1.0	157.05	47.0	50.0	66.0	39.0				
20.8	4217	1.1	134.31	47.0	50.0	66.0	39.0				



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 / Typ IE2 / IE3	Kg	mm			
11.0	9.8	10201	0.9	91.45	58.0	50.0	66.0	36.0	PKD 7390 160L6B / 160L6D	410	258-259			
	11.3	8880	1.0	79.61	60.0	50.0	66.0	35.0						
	12.8	7817	1.1	70.08	61.0	50.0	66.0	35.0						
	15.4	6519	1.4	58.44	63.0	50.0	66.0	34.0						
	17.9	5610	1.5	50.29	63.0	50.0	66.0	33.0						
	21.9	4578	1.8	41.04	61.0	50.0	66.0	32.0						
	25.6	3922	2.3	35.16	37.0	50.0	66.0	31.0						
	30.7	3271	2.7	29.32	37.0	50.0	66.0	29.0						
	8.9	11105	0.8	157.44	37.0	50.0	66.0	35.0				PKD 7390 160M4C	410	258-259
	12.7	7766	1.1	110.10	54.0	50.0	66.0	36.0						
	15.3	6450	1.3	91.45	58.0	50.0	66.0	36.0						
	17.6	5615	1.5	79.61	60.0	50.0	66.0	35.0						
	20.0	4943	1.7	70.08	61.0	50.0	66.0	35.0						
	24.0	4122	2.1	58.44	63.0	50.0	66.0	34.0						
	27.8	3547	2.3	50.29	63.0	50.0	66.0	33.0						
	34.1	2895	2.7	41.04	61.0	50.0	66.0	32.0						
	15.0	6297	1.0	186.78	37.0	50.0	66.0	42.0	PKD 7390 160M2B / 160M2C	410	258-259			
	17.8	5308	1.2	157.44	37.0	50.0	66.0	35.0						
	25.4	3712	1.7	110.10	54.0	50.0	66.0	36.0						
	30.6	3083	2.1	91.45	58.0	50.0	66.0	36.0						
	35.2	2684	2.4	79.61	60.0	50.0	66.0	35.0						
	40.0	2363	2.7	70.08	61.0	50.0	66.0	35.0						
	10.8	8111	0.8	258.36	49.0	50.0	-	-	PKD 6390/42 160M2B / 160M2C	461	278			
	14.9	5910	0.9	188.23	49.0	50.0	66.0	45.0						
	18.6	4728	1.0	150.60	49.0	50.0	66.0	45.0						
	21.7	4043	1.1	128.79	49.0	50.0	66.0	44.0						
	10.3	9783	0.9	87.70	59.0	50.0	66.0	40.0	PKD 6390 160L6B / 160L6D	410	254-255			
	11.8	8514	1.0	76.33	60.0	50.0	66.0	40.0						
	13.4	7496	1.1	67.20	61.0	50.0	66.0	39.0						
	16.1	6250	1.4	56.03	63.0	50.0	66.0	38.0						
	18.7	5380	1.5	48.23	63.0	50.0	66.0	37.0						
	22.9	4389	1.8	39.35	61.0	50.0	66.0	36.0						
	26.7	3760	2.3	33.71	41.0	50.0	66.0	35.0						
	32.0	3136	2.7	28.11	41.0	50.0	66.0	32.0						
	9.3	10636	0.8	150.79	41.0	50.0	66.0	40.0				PKD 6390 160M4C	410	254-255
	16.0	6186	1.3	87.70	59.0	50.0	66.0	40.0						
	18.3	5384	1.5	76.33	60.0	50.0	66.0	40.0						
	20.8	4740	1.7	67.20	61.0	50.0	66.0	39.0						
	25.0	3952	2.1	56.03	63.0	50.0	66.0	38.0						
	29.0	3402	2.3	48.23	63.0	50.0	66.0	37.0						
	35.6	2775	2.7	39.35	61.0	50.0	66.0	36.0						
	15.6	6039	1.0	179.11	41.0	50.0	66.0	44.0	PKD 6390 160M2B / 160M2C	410	254-255			
	18.6	5084	1.2	150.79	41.0	50.0	66.0	40.0						
	31.9	2957	2.1	87.70	59.0	50.0	66.0	40.0						
	36.7	2573	2.4	76.33	60.0	50.0	66.0	40.0						
	41.7	2266	2.8	67.20	61.0	50.0	66.0	39.0						
	16.5	6085	0.8	54.55	32.0	45.0	38.0	25.0				PKD 5390 160L6B / 160L6D	270	246-247
	20.0	5020	1.0	45.00	34.0	45.0	38.0	25.0						
22.6	4433	1.1	39.74	35.0	45.0	38.0	25.0							
24.9	4039	1.2	36.21	36.0	45.0	38.0	24.0							
28.7	3495	1.4	31.33	37.0	45.0	38.0	24.0							
32.9	3053	1.6	27.37	37.0	45.0	38.0	23.0							
38.5	2608	1.7	23.38	38.0	45.0	38.0	23.0							
39.9	2519	1.8	22.58	38.0	45.0	38.0	22.0							
45.1	2224	2.0	19.94	23.0	45.0	38.0	22.0							
50.1	2002	2.3	17.95	23.0	45.0	38.0	22.0							
55.0	1826	2.5	16.37	23.0	45.0	38.0	21.0							
66.7	1506	3.0	13.50	23.0	45.0	38.0	20.0							
83.8	1198	2.5	10.74	23.0	45.0	38.0	19.0							
89.4	1123	2.6	10.07	23.0	45.0	38.0	18.0							
95.1	1055	2.6	9.46	23.0	45.0	38.0	18.0							
110.7	907	3.0	8.13	23.0	45.0	38.0	17.0							



P₁ [kW]	n₂ [Min ⁻¹]	M₂ [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{R GR} [kN]	F_{A GR} [kN]	Tip / Type / Typ IE2 / IE3	Kg	mm			
11.0	15.9	6215	0.8	88.12	16.0	45.0	38.0	25.0	PKD 5390 160M4C	270	246-247			
	19.4	5091	0.9	72.18	25.0	45.0	38.0	25.0						
	22.4	4405	1.1	62.45	29.0	45.0	38.0	25.0						
	25.7	3848	1.2	54.55	32.0	45.0	38.0	25.0						
	31.1	3174	1.5	45.00	34.0	45.0	38.0	25.0						
	35.2	2803	1.7	39.74	35.0	45.0	38.0	25.0						
	38.7	2554	1.9	36.21	36.0	45.0	38.0	24.0						
	44.7	2210	2.2	31.33	37.0	45.0	38.0	24.0						
	51.2	1931	2.4	27.37	37.0	45.0	38.0	23.0						
	59.9	1649	2.6	23.38	38.0	45.0	38.0	23.0						
	62.0	1593	2.7	22.58	38.0	45.0	38.0	22.0						
	31.8	2971	1.2	88.12	16.0	45.0	38.0	25.0				PKD 5390 160M2B / 160M2C	270	246-247
	38.8	2434	1.5	72.18	25.0	45.0	38.0	25.0						
	44.8	2105	1.7	62.45	29.0	45.0	38.0	25.0						
	51.3	1839	2.0	54.55	32.0	45.0	38.0	25.0						
	62.2	1517	2.4	45.00	34.0	45.0	38.0	25.0						
	70.5	1340	2.7	39.74	35.0	45.0	38.0	25.0						
	77.3	1221	3.0	36.21	36.0	45.0	38.0	24.0						
	26.2	3835	0.8	34.38	23.0	33.0	28.0	11.0	PKD 4390 160L6B / 160L6D	195	238-239			
	32.2	3116	0.9	27.93	25.0	33.0	28.0	12.0						
	37.7	2664	1.1	23.88	25.0	33.0	28.0	12.0						
	44.2	2270	1.2	20.35	25.0	32.0	28.0	12.0						
	49.3	2036	1.3	18.25	24.0	32.0	28.0	12.0						
	57.4	1750	1.2	15.69	23.0	31.0	28.0	11.0						
	67.1	1497	1.4	13.42	23.0	30.0	28.0	11.0						
	78.7	1275	1.2	11.43	22.0	29.0	28.0	11.0						
	87.8	1143	1.4	10.25	21.0	29.0	28.0	11.0						
	95.5	1051	1.5	9.42	21.0	28.0	28.0	11.0						
	101.9	985	1.5	8.83	21.0	28.0	28.0	11.0						
	29.4	3358	0.8	47.61	18.0	32.0	28.0	10.0				PKD 4390 160M4C	195	238-239
	34.5	2861	1.0	40.56	21.0	32.0	28.0	10.0						
	40.7	2425	1.2	34.38	23.0	33.0	28.0	11.0						
	50.1	1970	1.4	27.93	25.0	33.0	28.0	12.0						
	58.6	1684	1.6	23.88	25.0	33.0	28.0	12.0						
	68.8	1435	1.8	20.35	25.0	32.0	28.0	12.0						
	76.7	1287	1.9	18.25	24.0	32.0	28.0	12.0						
	89.2	1107	1.8	15.69	23.0	31.0	28.0	11.0						
	104.3	947	2.1	13.42	23.0	30.0	28.0	11.0						
	122.5	806	1.9	11.43	22.0	29.0	28.0	11.0						
	136.6	723	2.1	10.25	21.0	29.0	28.0	11.0						
	148.6	664	2.3	9.42	21.0	28.0	28.0	11.0						
	158.6	623	2.2	8.83	21.0	28.0	28.0	11.0						
40.9	2310	0.9	68.52	18.0	32.0	28.0	12.0	PKD 4390 160M2B / 160M2C	195	238-239				
50.3	1877	1.1	55.67	18.0	32.0	28.0	13.0							
58.8	1605	1.3	47.61	18.0	32.0	28.0	10.0							
69.0	1367	1.6	40.56	21.0	32.0	28.0	10.0							
81.4	1159	1.8	34.38	23.0	33.0	28.0	10.0							
100.3	942	2.3	27.93	25.0	33.0	28.0	12.0							
117.3	805	2.5	23.88	25.0	33.0	28.0	12.0							
137.6	686	2.9	20.35	25.0	32.0	28.0	12.0							
153.4	615	3.0	18.25	24.0	32.0	28.0	12.0							
178.5	529	2.9	15.69	23.0	31.0	28.0	11.0							
245.0	385	3.0	11.43	22.0	29.0	28.0	11.0							
15.0	1.9	69986	0.8	474.22	-	-	-				-	PKD G 9390/62 180L6A / 180L6B	1907	282
	2.1	63608	0.8	431.00	-	-	-				-			
	2.4	54746	1.0	370.95	-	-	-	-						
	2.8	47332	1.1	320.72	-	-	-	-						
	3.0	43857	1.2	297.17	-	-	-	-						
	3.3	39860	1.3	270.09	-	-	-	-						
	3.9	34462	1.5	233.51	-	-	-	-						
	4.3	30837	1.7	208.95	-	-	-	-						



P_1 [kW]	n_2 [Min ⁻¹]	M_2 [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{RGR} [kN]	F_{AGR} [kN]	Tip / Type / Typ IE2 / IE3					
15.0	2.0	64720	0.8	702.80	-	-	-	-	PKD G 9390/62 160L4B	1866	282			
	2.3	55956	0.9	607.63	-	-	-	-						
	2.6	49574	1.0	538.33	-	-	-	-						
	3.0	43671	1.1	474.22	-	-	-	-						
	3.2	39690	1.3	431.00	-	-	-	-						
	3.8	34161	1.5	370.95	-	-	-	-						
	4.4	29535	1.7	320.72	-	-	-	-						
	4.7	27366	1.8	297.17	-	-	-	-						
	5.2	24872	2.0	270.09	-	-	-	-						
	6.0	21504	2.3	233.51	-	-	-	-						
	2.4	49886	0.8	1165.22	-	-	-	-				PKD G 9390/62 160M2C / 160M2D	1866	282
	2.9	41927	0.9	979.31	-	-	-	-						
	3.4	34960	1.1	816.57	-	-	-	-						
	4.0	30089	1.3	702.80	-	-	-	-						
	4.6	26014	1.5	607.63	-	-	-	-						
	5.2	23047	1.6	538.33	-	-	-	-						
	5.9	20303	1.9	474.22	-	-	-	-						
	6.5	18452	2.1	431.00	-	-	-	-						
	7.5	15881	2.4	370.95	-	-	-	-						
	8.7	13731	2.8	320.72	-	-	-	-						
	9.4	12723	3.0	297.17	-	-	-	-						
	3.2	41530	0.8	281.40	116.0	70.0	160.0	70.0	PKD 9390/52 180L6A / 180L6B	1607	280			
	4.0	32934	1.0	223.16	134.0	70.0	160.0	70.0						
	4.7	28303	1.2	191.78	154.0	70.0	-	-						
	3.2	40911	0.8	444.25	122.0	70.0	160.0	70.0	PKD 9390/52 160L4B	1566	280			
	3.6	35568	0.9	386.23	104.0	70.0	160.0	70.0						
	5.0	25914	1.2	281.40	116.0	70.0	160.0	70.0						
	6.3	20551	1.6	223.16	134.0	70.0	160.0	70.0						
	7.3	17661	1.8	191.78	154.0	70.0	160.0	70.0						
	4.0	30249	0.8	706.54	122.0	70.0	160.0	70.0	PKD 9390/52 160M2C / 160M2D	1566	280			
	4.6	26105	0.9	609.75	122.0	70.0	160.0	70.0						
	6.3	19020	1.3	444.25	122.0	70.0	160.0	70.0						
	7.2	16536	1.5	386.23	104.0	70.0	160.0	70.0						
	10.0	12048	2.0	281.40	116.0	70.0	160.0	70.0						
	12.5	9554	2.5	223.16	134.0	70.0	160.0	70.0						
	14.6	8211	3.0	191.78	154.0	70.0	160.0	70.0						
	4.5	30509	1.7	200.57	220.0	100.0	-	-				PKD G 9390 180L6A / 180L6B	1776	274-275
	5.2	26378	2.0	173.41	220.0	100.0	-	-						
	5.8	23469	2.2	154.29	220.0	100.0	-	-						
	6.7	20311	2.6	133.53	220.0	100.0	-	-						
	7.6	17976	2.9	118.18	220.0	100.0	-	-						
	7.0	19291	2.6	200.57	220.0	100.0	-	-	PKD G 9390 160L4B	1735	274-275			
	8.1	16679	3.0	173.41	220.0	100.0	-	-						
	3.6	38524	0.9	253.26	138.0	70.0	160.0	70.0	PKD 9390 180L6A / 180L6B	1531	270-271			
	4.6	30060	1.1	197.62	146.0	70.0	160.0	70.0						
	5.9	23290	1.4	153.11	151.0	70.0	160.0	70.0						
	7.5	18290	1.8	120.24	154.0	70.0	160.0	70.0						
8.8	15572	2.2	102.37	143.0	70.0	160.0	70.0							
9.8	13953	2.4	91.73	143.0	70.0	160.0	70.0							
11.3	12167	2.8	79.99	143.0	70.0	160.0	70.0							
4.7	28642	1.1	297.79	128.0	70.0	160.0	70.0	PKD 9390 160L4B				1490	270-271	
5.5	24359	1.3	253.26	138.0	70.0	160.0	70.0							
7.1	19008	1.7	197.62	146.0	70.0	160.0	70.0							
9.1	14726	2.2	153.11	151.0	70.0	160.0	70.0							
11.6	11565	2.8	120.24	154.0	70.0	160.0	70.0							
9.4	13691	1.8	297.79	128.0	70.0	160.0	70.0		PKD 9390 160M2C / 160M2D	1490	270-271			
11.1	11644	2.1	253.26	138.0	70.0	160.0	70.0							
14.2	9086	2.7	197.62	146.0	70.0	160.0	70.0							
5.2	25412	0.8	172.19	114.0	65.0	120.0	65.0	PKD G 8390/52 180L6A / 180L6B	1037	280				
6.2	21377	0.9	144.85	103.0	65.0	120.0	65.0							

P₁ [kW]	n₂ [Min ⁻¹]	M₂ [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{R GR} [kN]	F_{A GR} [kN]	Tip / Type / Typ IE2 / IE3		
15.0	5.9	21765	0.8	236.35	105.0	65.0	120.0	65.0	PKD G 8390/52 160L4B	996	280
	8.1	15857	1.1	172.19	114.0	65.0	120.0	65.0			
	9.7	13339	1.3	144.85	103.0	65.0	120.0	65.0			
	6.4	18622	0.8	434.96	105.0	65.0	120.0	65.0	PKD G 8390/52 160M2C / 160M2D	996	280
	7.4	16246	0.9	379.47	105.0	65.0	-	-			
	10.3	11639	1.3	271.85	105.0	65.0	120.0	65.0			
	11.8	10119	1.5	236.35	105.0	65.0	120.0	65.0			
	16.3	7372	2.1	172.19	114.0	65.0	120.0	65.0			
	19.3	6201	2.2	144.85	103.0	65.0	120.0	65.0			
	7.7	16790	0.8	182.32	83.0	60.0	95.0	60.0	PKD 8390/52 160L4B	746	280
	9.6	13477	1.0	146.35	95.0	60.0	-	-			
	11.3	11386	1.1	123.64	79.0	60.0	95.0	60.0			
	11.4	10551	0.9	246.45	83.0	60.0	-	-	PKD 8390/52 160M2C / 160M2D	746	280
	15.4	7806	1.3	182.32	83.0	60.0	95.0	60.0			
	19.1	6266	1.6	146.35	95.0	60.0	-	-			
	22.6	5293	1.7	123.64	79.0	60.0	95.0	60.0			
	9.8	12245	0.8	286.02	71.0	60.0	95.0	60.0	PKD 8390/42 160M2C / 160M2D	721	280
	5.9	23101	0.9	151.87	109.0	65.0	120.0	65.0	PKD G 8390 180L6A / 180L6B	961	266-267
	7.0	19432	1.1	127.75	113.0	65.0	120.0	65.0			
	7.7	17739	1.2	116.62	116.0	65.0	120.0	65.0			
	9.9	13786	1.5	90.63	118.0	65.0	120.0	65.0			
	11.5	11916	1.8	78.34	105.0	65.0	-	-			
	13.3	10280	2.0	67.58	105.0	65.0	120.0	65.0			
	15.3	8968	2.3	58.96	105.0	65.0	120.0	65.0			
	17.9	7669	2.7	50.42	105.0	65.0	120.0	65.0			
	6.1	22187	0.9	230.68	88.0	65.0	120.0	65.0	PKD G 8390 160L4B	920	266-267
	7.2	18663	1.1	194.04	99.0	65.0	120.0	65.0			
	9.2	14607	1.4	151.87	109.0	65.0	120.0	65.0			
	11.0	12287	1.6	127.75	113.0	65.0	120.0	65.0			
	12.0	11217	1.8	116.62	116.0	65.0	120.0	65.0			
	15.4	8717	2.3	90.63	118.0	65.0	120.0	65.0			
	17.9	7535	2.7	78.34	-	-	-	-			
	12.1	10605	1.4	230.68	88.0	65.0	120.0	65.0	PKD G 8390 160M2C / 160M2D	920	266-267
	14.4	8921	1.7	194.04	99.0	65.0	120.0	65.0			
	18.4	6982	2.2	151.87	109.0	65.0	120.0	65.0			
	21.9	5873	2.6	127.75	113.0	65.0	120.0	65.0			
	24.0	5362	2.8	116.62	116.0	65.0	120.0	65.0			
	7.7	17729	0.8	116.55	87.0	60.0	95.0	60.0	PKD 8390 180L6A / 180L6B	711	262-263
	9.4	14597	0.9	95.96	90.0	60.0	95.0	60.0			
	10.8	12618	1.1	82.95	92.0	60.0	95.0	60.0			
	12.6	10885	1.3	71.56	93.0	60.0	95.0	60.0			
	14.4	9496	1.4	62.43	94.0	60.0	95.0	60.0			
	16.9	8121	1.7	53.39	94.0	60.0	95.0	60.0			
	20.1	6804	2.0	44.73	89.0	60.0	95.0	60.0			
	21.6	6329	2.2	41.61	79.0	60.0	95.0	60.0			
	25.1	5461	2.5	35.90	79.0	60.0	95.0	60.0			
	28.7	4764	2.9	31.32	79.0	60.0	95.0	60.0			
	9.4	14316	0.9	148.84	79.0	60.0	95.0	60.0			
11.4	11786	1.1	122.54	86.0	60.0	95.0	60.0				
12.0	11210	1.2	116.55	87.0	60.0	95.0	60.0				
14.6	9230	1.4	95.96	90.0	60.0	95.0	60.0				
16.9	7978	1.6	82.95	92.0	60.0	95.0	60.0				
19.6	6883	1.9	71.56	93.0	60.0	95.0	60.0				
22.4	6005	2.2	62.43	94.0	60.0	95.0	60.0				
26.2	5135	2.5	53.39	94.0	60.0	95.0	60.0				
31.3	4302	3.0	44.73	89.0	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_{RGR} [kN]	F_{AGR} [kN]	Tip / Type / Typ IE2 / IE3					
15.0	11.5	11229	0.9	244.25	79.0	60.0	-	-	PKD 8390 160M2C / 160M2D	670	262-263			
	18.8	6843	1.4	148.84	79.0	60.0	95.0	60.0						
	22.8	5634	1.8	122.54	86.0	60.0	95.0	60.0						
	24.0	5358	1.8	116.55	87.0	60.0	95.0	60.0						
	29.2	4412	2.2	95.96	90.0	60.0	95.0	60.0						
	33.8	3814	2.6	82.95	92.0	60.0	95.0	60.0						
	39.1	3290	3.0	71.56	93.0	60.0	95.0	60.0						
	20.8	5750	0.8	134.31	47.0	50.0	-	-				PKD 7390/42 160M2C / 160M2D	461	278
	12.8	10660	0.8	70.08	57.0	50.0	66.0	31.0				PKD 7390 180L6A / 180L6B	451	258-259
	15.4	8889	1.0	58.44	60.0	50.0	66.0	31.0						
17.9	7650	1.1	50.29	60.0	50.0	66.0	31.0							
20.1	6816	1.2	44.81	56.0	50.0	-	-							
21.9	6243	1.3	41.04	58.0	50.0	66.0	30.0							
25.6	5348	1.7	35.16	56.0	50.0	66.0	30.0							
30.7	4460	2.0	29.32	54.0	50.0	66.0	29.0							
35.7	3838	2.3	25.23	37.0	50.0	66.0	28.0							
40.0	3419	2.6	22.48	37.0	50.0	66.0	26.0							
43.7	3132	2.8	20.59	37.0	50.0	66.0	26.0							
49.0	2794	2.9	18.37	37.0	50.0	66.0	26.0							
64.1	2136	2.6	14.04	37.0	50.0	66.0	23.0							
71.9	1903	2.8	12.51	37.0	50.0	-	-							
74.6	1834	2.9	12.06	37.0	50.0	-	-							
78.5	1743	3.0	11.46	37.0	50.0	-	-							
12.7	10590	0.8	110.10	41.0	50.0	66.0	30.0	PKD 7390 160L4B	410	258-259				
15.3	8796	1.0	91.45	50.0	50.0	66.0	31.0							
17.6	7657	1.1	79.61	54.0	50.0	66.0	31.0							
20.0	6740	1.3	70.08	57.0	50.0	66.0	31.0							
24.0	5621	1.5	58.44	60.0	50.0	66.0	31.0							
27.8	4837	1.7	50.29	60.0	50.0	66.0	31.0							
34.1	3947	2.0	41.04	58.0	50.0	66.0	30.0							
39.8	3382	2.5	35.16	56.0	50.0	66.0	30.0							
47.7	2820	3.0	29.32	54.0	50.0	66.0	29.0							
15.0	8587	0.8	186.78	41.0	50.0	66.0	38.0				PKD 7390 160M2C / 160M2D	410	258-259	
17.8	7238	0.9	157.44	41.0	50.0	66.0	35.0							
25.4	5062	1.3	110.10	41.0	50.0	66.0	30.0							
30.6	4204	1.5	91.45	50.0	50.0	66.0	31.0							
35.2	3660	1.8	79.61	54.0	50.0	66.0	31.0							
40.0	3222	2.0	70.08	57.0	50.0	66.0	31.0							
47.9	2687	2.4	58.44	60.0	50.0	66.0	31.0							
55.7	2312	2.7	50.29	60.0	50.0	66.0	31.0							
21.7	5514	0.8	128.79	49.0	50.0	-	-	PKD 6390/42 160M2C / 160M2D	461	278				
13.4	10222	0.8	67.20	58.0	50.0	66.0	36.0	PKD 6390 180L6A / 180L6B	451	254-255				
16.1	8523	1.0	56.03	60.0	50.0	66.0	35.0							
18.7	7336	1.1	48.23	60.0	50.0	66.0	35.0							
20.9	6536	1.2	42.97	59.0	50.0	66.0	31.0							
22.9	5986	1.3	39.35	59.0	50.0	66.0	34.0							
26.7	5128	1.7	33.71	57.0	50.0	66.0	33.0							
32.0	4276	2.0	28.11	55.0	50.0	66.0	32.0							
37.2	3680	2.3	24.19	41.0	50.0	66.0	31.0							
41.7	3280	2.6	21.56	41.0	50.0	66.0	28.0							
45.6	3003	2.9	19.74	41.0	50.0	66.0	30.0							
51.1	2680	2.9	17.62	41.0	50.0	66.0	29.0							
67.7	2022	2.6	13.29	41.0	50.0	66.0	26.0							
76.0	1801	2.8	11.84	41.0	50.0	66.0	25.0							
78.8	1737	2.9	11.42	41.0	50.0	66.0	25.0							



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 / Typ IE2 / IE3	 Kg	 mm
15.0	16.0	8435	1.0	87.70	52.0	50.0	66.0	36.0	PKD 6390 160L4B	410	254-255
	18.3	7342	1.1	76.33	55.0	50.0	66.0	36.0			
	20.8	6463	1.3	67.20	58.0	50.0	66.0	36.0			
	25.0	5389	1.5	56.03	60.0	50.0	66.0	35.0			
	29.0	4639	1.7	48.23	60.0	50.0	66.0	35.0			
	35.6	3785	2.0	39.35	59.0	50.0	66.0	34.0			
	41.5	3242	2.5	33.71	57.0	50.0	66.0	33.0			
	49.8	2704	3.0	28.11	55.0	50.0	66.0	32.0			
	15.6	8235	0.8	179.11	52.0	50.0	66.0	44.0	PKD 6390 160M2C / 160M2D	410	254-255
	18.6	6933	0.9	150.79	52.0	50.0	66.0	40.0			
	31.9	4032	1.5	87.70	52.0	50.0	66.0	36.0			
	36.7	3509	1.8	76.33	55.0	50.0	66.0	36.0			
	41.7	3089	2.0	67.20	58.0	50.0	66.0	36.0			
	50.0	2576	2.4	56.03	60.0	50.0	66.0	35.0			
	58.1	2217	2.7	48.23	60.0	50.0	66.0	35.0			
	22.6	6045	0.8	39.74	32.0	45.0	38.0	22.0			
	32.9	4163	1.2	27.37	36.0	45.0	38.0	22.0			
	38.5	3556	1.3	23.38	37.0	45.0	38.0	21.0			
	39.9	3435	1.3	22.58	37.0	45.0	38.0	21.0			
	45.1	3033	1.5	19.94	37.0	45.0	38.0	21.0			
	50.1	2730	1.7	17.95	37.0	45.0	38.0	20.0			
	55.0	2490	1.8	16.37	37.0	45.0	38.0	20.0			
	66.7	2053	2.2	13.50	33.0	42.0	38.0	19.0			
	75.5	1813	2.3	11.92	33.0	42.0	38.0	19.0			
	83.8	1634	1.9	10.74	33.0	42.0	38.0	18.0			
	89.4	1532	1.9	10.07	33.0	41.0	38.0	18.0			
	95.1	1439	1.9	9.46	32.0	41.0	38.0	18.0			
	110.7	1237	2.2	8.13	16.0	45.0	38.0	17.0			
	22.4	6007	0.8	62.45	16.0	45.0	38.0	22.0	PKD 5390 160L4B	270	246-247
	25.7	5247	0.9	54.55	24.0	45.0	38.0	22.0			
	31.1	4328	1.1	45.00	29.0	45.0	38.0	22.0			
	35.2	3822	1.3	39.74	32.0	45.0	38.0	22.0			
	38.7	3483	1.4	36.21	33.0	45.0	38.0	22.0			
	44.7	3013	1.6	31.33	35.0	45.0	38.0	22.0			
	51.2	2633	1.7	27.37	36.0	45.0	38.0	22.0			
	59.9	2249	1.9	23.38	37.0	45.0	38.0	21.0			
	62.0	2172	2.0	22.58	37.0	45.0	38.0	21.0			
	70.2	1918	2.2	19.94	37.0	45.0	38.0	21.0			
	78.0	1726	2.5	17.95	37.0	45.0	38.0	20.0			
	85.5	1575	2.7	16.37	37.0	45.0	38.0	20.0			
	130.4	1033	2.8	10.74	33.0	42.0	38.0	18.0			
	139.0	969	2.9	10.07	33.0	41.0	38.0	18.0			
	148.0	910	2.9	9.46	32.0	41.0	38.0	18.0			
	31.8	4051	0.9	88.12	16.0	45.0	38.0	25.0			
	38.8	3318	1.1	72.18	16.0	45.0	38.0	25.0			
	44.8	2871	1.3	62.45	16.0	45.0	38.0	22.0			
	51.3	2508	1.5	54.55	24.0	45.0	38.0	22.0			
	62.2	2069	1.8	45.00	29.0	45.0	38.0	22.0			
70.5	1827	2.0	39.74	32.0	45.0	38.0	22.0				
77.3	1665	2.2	36.21	33.0	45.0	38.0	22.0				
89.4	1440	2.5	31.33	35.0	45.0	38.0	22.0				
102.3	1258	2.8	27.37	36.0	45.0	38.0	22.0				
119.8	1075	3.0	23.38	37.0	45.0	38.0	21.0				
40.7	3307	0.8	34.38	18.0	27.0	23.0	8.0	PKD 4390 160L4B	195	238-239	
50.1	2686	1.0	27.93	22.0	28.0	25.0	9.0				
58.6	2297	1.2	23.88	23.0	29.0	26.0	9.0				
68.8	1957	1.3	20.35	23.0	29.0	27.0	10.0				
76.7	1755	1.4	18.25	23.0	29.0	27.0	10.0				
89.2	1509	1.3	15.69	22.0	28.0	26.0	10.0				
104.3	1291	1.5	13.42	21.0	27.0	26.0	10.0				
122.5	1099	1.4	11.43	21.0	27.0	26.0	10.0				
136.6	986	1.5	10.25	20.0	27.0	26.0	10.0				
148.6	906	1.7	9.42	20.0	26.0	26.0	10.0				
158.6	849	1.6	8.83	20.0	26.0	26.0	10.0				



P₁ [kW]	n₂ [Min ⁻¹]	M₂ [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{R GR} [kN]	F_{A GR} [kN]	Tip / Type / Typ IE2 / IE3		
15.0	50.3	2559	0.8	55.67	18.0	27.0	28.0	11.0	PKD 4390 160M2C / 160M2D	195	238-239
	58.8	2189	1.0	47.61	18.0	27.0	28.0	10.0			
	69.0	1865	1.1	40.56	18.0	27.0	28.0	10.0			
	81.4	1581	1.3	34.38	18.0	27.0	23.0	8.0			
	100.3	1284	1.7	27.93	22.0	28.0	25.0	9.0			
	117.3	1098	1.9	23.88	23.0	29.0	26.0	9.0			
	137.6	936	2.1	20.35	23.0	29.0	27.0	10.0			
	153.4	839	2.2	18.25	23.0	29.0	27.0	10.0			
	178.5	721	2.1	15.69	22.0	28.0	26.0	10.0			
	208.6	617	2.5	13.42	21.0	27.0	26.0	10.0			
	245.0	525	2.2	11.43	21.0	27.0	26.0	10.0			
	273.2	471	2.4	10.25	20.0	27.0	26.0	10.0			
	297.2	433	2.6	9.42	20.0	26.0	26.0	10.0			
	317.1	406	2.6	8.83	20.0	26.0	26.0	10.0			
18.5	2.4	67519	0.8	370.95	-	-	-	-	PKD G 9390/62 200L6B / 200L6C	1965	282
	2.8	58377	0.9	320.72	-	-	-	-			
	3.0	54090	1.0	297.17	-	-	-	-			
	3.3	49161	1.1	270.09	-	-	-	-			
	3.9	42503	1.2	233.51	-	-	-	-			
	4.3	38033	1.4	208.95	-	-	-	-			
	2.6	61142	0.8	538.33	-	-	-	-			
	3.0	53860	0.9	474.22	-	-	-	-			
	3.2	48952	1.0	431.00	-	-	-	-			
	3.8	42131	1.2	370.95	-	-	-	-			
	4.4	36426	1.4	320.72	-	-	-	-			
	4.7	33752	1.5	297.17	-	-	-	-			
	5.2	30676	1.6	270.09	-	-	-	-			
	6.0	26521	1.9	233.51	-	-	-	-			
	6.7	23732	2.1	208.95	-	-	-	-			
	3.4	43117	0.9	816.57	-	-	-	-	PKD G 9390/62 160M2D / 160L2C	1866	282
	4.0	37110	1.0	702.80	-	-	-	-			
	4.6	32084	1.2	607.63	-	-	-	-			
	5.2	28425	1.3	538.33	-	-	-	-			
	5.9	25040	1.5	474.22	-	-	-	-			
	6.5	22758	1.7	431.00	-	-	-	-			
	7.5	19587	1.9	370.95	-	-	-	-			
	8.7	16935	2.2	320.72	-	-	-	-			
	9.4	15691	2.4	297.17	-	-	-	-			
	10.4	14261	2.7	270.09	-	-	-	-			
	5.0	31961	1.0	281.40	116.0	70.0	160.0	70.0	PKD 9390/52 180M4A / 180M4B	1607	280
	6.3	25346	1.3	223.16	134.0	70.0	160.0	70.0			
	7.3	21782	1.5	191.78	154.0	70.0	-	-			
	4.6	32196	0.8	609.75	116.0	70.0	-	-	PKD 9390/52 160M2D / 160L2C	1566	280
	6.3	23457	1.0	444.25	116.0	70.0	160.0	70.0			
	7.2	20394	1.2	386.23	116.0	70.0	160.0	70.0			
	10.0	14859	1.6	281.40	116.0	70.0	160.0	70.0			
12.5	11783	2.1	223.16	134.0	70.0	160.0	70.0				
14.6	10126	2.4	191.78	154.0	70.0	160.0	70.0				
4.5	37628	1.4	200.57	220.0	100.0	-	-	PKD G 9390 200L6B / 200L6C			
5.2	32532	1.6	173.41	220.0	100.0	-	-				
5.8	28945	1.8	154.29	220.0	100.0	-	-				
6.7	25051	2.1	133.53	220.0	100.0	-	-				
7.6	22171	2.4	118.18	220.0	100.0	-	-				
8.8	19169	2.7	102.18	220.0	100.0	-	-				
7.0	23793	2.1	200.57	220.0	100.0	-	-	PKD G 9390 180M4A / 180M4B	1776	274-275	
8.1	20571	2.4	173.41	220.0	100.0	-	-				
9.1	18303	2.7	154.29	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 / Typ IE2 / IE3					
18.5	4.6	37074	0.9	197.62	139.0	70.0	160.0	70.0	PKD 9390 200L6B / 200L6C	1589	270-271			
	7.5	22557	1.5	120.24	152.0	70.0	160.0	70.0						
	8.8	19205	1.7	102.37	153.0	70.0	160.0	70.0						
	9.8	17209	2.0	91.73	155.0	70.0	160.0	70.0						
	11.3	15006	2.2	79.99	128.0	70.0	160.0	70.0						
	13.0	12950	2.6	69.03	128.0	70.0	160.0	70.0						
	4.7	35325	0.9	297.79	128.0	70.0	160.0	70.0				PKD 9390 180M4A / 180M4B	1531	270-271
	5.5	30043	1.1	253.26	138.0	70.0	160.0	70.0						
	7.1	23443	1.4	197.62	139.0	70.0	160.0	70.0						
	9.1	18163	1.8	153.11	147.0	70.0	160.0	70.0						
	11.6	14263	2.2	120.24	152.0	70.0	160.0	70.0						
	13.7	12144	2.6	102.37	153.0	70.0	160.0	70.0						
	15.3	10881	2.9	91.73	155.0	70.0	160.0	70.0						
	9.4	16885	1.4	297.79	128.0	70.0	160.0	70.0	PKD 9390 160M2D / 160L2C	1490	270-271			
	11.1	14360	1.7	253.26	138.0	70.0	160.0	70.0						
	14.2	11205	2.2	197.62	139.0	70.0	160.0	70.0						
	18.3	8682	2.8	153.11	147.0	70.0	160.0	70.0						
	8.1	19557	0.9	172.19	94.0	65.0	120.0	65.0	PKD G 8390/52 180M4A / 180M4B	1037	280			
	9.7	16452	1.1	144.85	103.0	65.0	120.0	65.0						
	7.4	20037	0.8	379.47	94.0	65.0	-	-	PKD G 8390/52 160M2D / 160L2C	996	280			
	10.3	14354	1.1	271.85	94.0	65.0	120.0	65.0						
	11.8	12480	1.2	236.35	94.0	65.0	120.0	65.0						
	16.3	9092	1.7	172.19	94.0	65.0	120.0	65.0						
	19.3	7648	1.8	144.85	103.0	65.0	120.0	65.0						
	9.6	16622	0.8	146.35	95.0	60.0	-	-				PKD 8390/52 180M4A / 180M4B	787	280
	11.3	14043	0.9	123.64	79.0	60.0	95.0	60.0						
	11.4	13013	0.8	246.45	95.0	60.0	-	-	PKD 8390/52 160M2D / 160L2C	746	280			
	15.4	9627	1.0	182.32	95.0	60.0	-	-						
	19.1	7728	1.3	146.35	95.0	60.0	-	-						
	22.6	6528	1.4	123.64	79.0	60.0	95.0	60.0						
	7.0	23966	0.9	127.75	107.0	65.0	120.0	65.0	PKD G 8390 200L6B / 200L6C	1019	266-267			
	9.9	17003	1.2	90.63	116.0	65.0	120.0	65.0						
	11.5	14697	1.4	78.34	119.0	65.0	120.0	65.0						
	13.3	12678	1.7	67.58	119.0	65.0	120.0	65.0						
	15.3	11061	1.9	58.96	120.0	65.0	120.0	65.0						
	17.9	9459	2.2	50.42	88.0	65.0	120.0	65.0						
	21.3	7924	2.7	42.24	88.0	65.0	120.0	65.0						
	25.3	6666	2.8	35.53	88.0	65.0	120.0	65.0						
	7.2	23018	0.9	194.04	99.0	65.0	120.0	65.0				PKD G 8390 180M4A / 180M4B	961	266-267
	9.2	18016	1.1	151.87	101.0	65.0	120.0	65.0						
	11.0	15154	1.3	127.75	107.0	65.0	120.0	65.0						
	12.0	13834	1.4	116.62	112.0	65.0	120.0	65.0						
15.4	10751	1.9	90.63	116.0	65.0	120.0	65.0							
17.9	9293	2.2	78.34	-	-	-	-							
20.7	8017	2.5	67.58	119.0	65.0	120.0	65.0							
23.7	6994	2.9	58.96	120.0	65.0	120.0	65.0							
12.1	13080	1.2	230.68	99.0	65.0	120.0	65.0	PKD G 8390 160M2D / 160L2C	920	266-267				
14.4	11002	1.4	194.04	99.0	65.0	120.0	65.0							
18.4	8611	1.8	151.87	101.0	65.0	120.0	65.0							
21.9	7244	2.1	127.75	107.0	65.0	120.0	65.0							
24.0	6613	2.3	116.62	112.0	65.0	120.0	65.0							
30.9	5139	3.0	90.63	116.0	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 / Typ IE2 / IE3		
18.5	9.4	18002	0.8	95.96	86.0	60.0	95.0	60.0	PKD 8390 200L6B / 200L6C	769	262-263
	10.8	15562	0.9	82.95	89.0	60.0	95.0	60.0			
	12.6	13425	1.0	71.56	91.0	60.0	95.0	60.0			
	14.4	11712	1.2	62.43	92.0	60.0	95.0	60.0			
	16.9	10016	1.4	53.39	91.0	60.0	95.0	60.0			
	20.1	8392	1.6	44.73	87.0	60.0	95.0	60.0			
	21.6	7806	1.7	41.61	86.0	60.0	95.0	60.0			
	25.1	6735	2.0	35.90	79.0	60.0	95.0	60.0			
	28.7	5876	2.3	31.32	79.0	60.0	95.0	60.0			
	33.6	5026	2.7	26.79	79.0	60.0	95.0	60.0			
	11.4	14536	0.9	122.54	86.0	60.0	95.0	60.0	PKD 8390 180M4A / 180M4B	711	262-263
	12.0	13826	0.9	116.55	82.0	60.0	95.0	60.0			
	14.6	11383	1.1	95.96	86.0	60.0	95.0	60.0			
	16.9	9840	1.3	82.95	89.0	60.0	95.0	60.0			
	19.6	8489	1.5	71.56	91.0	60.0	95.0	60.0			
	22.4	7406	1.8	62.43	92.0	60.0	95.0	60.0			
	26.2	6333	2.1	53.39	91.0	60.0	95.0	60.0			
	31.3	5306	2.5	44.73	87.0	60.0	95.0	60.0			
	33.6	4936	2.6	41.61	86.0	60.0	95.0	60.0			
		18.8	8440	1.2	148.84	86.0	60.0	95.0			
22.8		6948	1.4	122.54	86.0	60.0	95.0	60.0			
24.0		6609	1.5	116.55	82.0	60.0	95.0	60.0			
29.2		5441	1.8	95.96	86.0	60.0	95.0	60.0			
33.8		4703	2.1	82.95	89.0	60.0	95.0	60.0			
39.1		4058	2.4	71.56	91.0	60.0	95.0	60.0			
44.9		3540	2.8	62.43	92.0	60.0	95.0	60.0			
		15.4	10964	0.8	58.44	57.0	50.0	66.0	28.0	PKD 7390 200L6B / 200L6C	509
	17.9	9435	0.9	50.29	57.0	50.0	66.0	29.0			
	20.1	8407	1.0	44.81	56.0	50.0	66.0	29.0			
	21.9	7699	1.1	41.04	55.0	50.0	66.0	29.0			
	25.6	6596	1.4	35.16	54.0	50.0	66.0	28.0			
	30.7	5501	1.6	29.32	53.0	50.0	66.0	28.0			
	35.7	4733	1.9	25.23	51.0	50.0	66.0	27.0			
	40.0	4217	2.1	22.48	41.0	50.0	66.0	26.0			
	43.7	3863	2.3	20.59	41.0	50.0	66.0	26.0			
	49.0	3446	2.4	18.37	41.0	50.0	66.0	26.0			
	54.7	3084	2.6	16.44	41.0	50.0	66.0	24.0			
	58.1	2906	2.7	15.49	41.0	50.0	66.0	24.0			
	64.1	2634	2.1	14.04	41.0	50.0	66.0	23.0			
	71.9	2347	2.2	12.51	41.0	50.0	62.0	21.0			
	74.6	2263	2.3	12.06	41.0	50.0	62.0	21.0			
	78.5	2150	2.4	11.46	41.0	50.0	61.0	21.0			
	88.1	1917	2.6	10.22	41.0	50.0	60.0	21.0			
98.4	1717	2.9	9.15	41.0	50.0	59.0	21.0				
	15.3	10848	0.8	91.45	39.0	50.0	66.0	27.0	PKD 7390 180M4A / 180M4B	451	258-259
	17.6	9444	0.9	79.61	47.0	50.0	66.0	28.0			
	20.0	8313	1.0	70.08	52.0	50.0	66.0	28.0			
	24.0	6932	1.2	58.44	57.0	50.0	66.0	28.0			
	27.8	5966	1.4	50.29	57.0	50.0	66.0	29.0			
	31.2	5316	1.4	44.81	56.0	50.0	66.0	29.0			
	34.1	4868	1.6	41.04	55.0	50.0	66.0	29.0			
	39.8	4171	2.0	35.16	54.0	50.0	66.0	28.0			
	47.7	3478	2.4	29.32	53.0	50.0	66.0	28.0			
	55.5	2993	2.8	25.23	51.0	50.0	66.0	27.0			
		25.4	6243	1.0	110.10	39.0	50.0	66.0			
30.6		5185	1.2	91.45	39.0	50.0	66.0	27.0			
35.2		4514	1.4	79.61	47.0	50.0	66.0	28.0			
40.0		3974	1.6	70.08	52.0	50.0	66.0	28.0			
47.9		3314	1.9	58.44	57.0	50.0	66.0	28.0			
55.7		2852	2.2	50.29	57.0	50.0	66.0	29.0			
68.2		2327	2.5	41.04	55.0	50.0	66.0	29.0			

P_1 [kW]	n_2 [Min ⁻¹]	M_2 [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{RGR} [kN]	F_{AGR} [kN]	Tip / Type / Typ IE2 / IE3	 Kg	 mm			
18.5	16.1	10511	0.8	56.03	57.0	50.0	66.0	33.0	PKD 6390 200L6B / 200L6C	509	254-255			
	18.7	9048	0.9	48.23	57.0	50.0	66.0	33.0						
	20.9	8061	1.0	42.97	57.0	50.0	66.0	32.0						
	22.9	7382	1.1	39.35	56.0	50.0	66.0	32.0						
	26.7	6324	1.4	33.71	55.0	50.0	66.0	32.0						
	32.0	5274	1.6	28.11	53.0	50.0	66.0	31.0						
	37.2	4538	1.9	24.19	52.0	50.0	66.0	30.0						
	41.7	4045	2.1	21.56	52.0	50.0	66.0	29.0						
	45.6	3703	2.3	19.74	52.0	50.0	66.0	29.0						
	51.1	3306	2.4	17.62	52.0	50.0	66.0	27.0						
	57.1	2957	2.6	15.76	52.0	50.0	66.0	27.0						
	60.7	2782	2.7	14.83	52.0	50.0	66.0	26.0						
	67.7	2493	2.1	13.29	52.0	50.0	66.0	26.0						
	76.0	2221	2.3	11.84	52.0	50.0	66.0	25.0						
	78.8	2142	2.4	11.42	52.0	50.0	66.0	25.0						
82.9	2035	2.5	10.85	52.0	50.0	66.0	25.0							
93.0	1816	2.6	9.68	52.0	50.0	66.0	24.0							
103.9	1625	2.9	8.66	52.0	50.0	66.0	23.0							
	16.0	10403	0.8	87.70	44.0	50.0	66.0	33.0	PKD 6390 180M4A / 180M4B	451	254-255			
	18.3	9055	0.9	76.33	49.0	50.0	66.0	33.0						
	20.8	7972	1.0	67.20	53.0	50.0	66.0	33.0						
	25.0	6647	1.2	56.03	57.0	50.0	66.0	33.0						
	29.0	5721	1.4	48.23	57.0	50.0	66.0	33.0						
	32.6	5097	1.5	42.97	57.0	50.0	66.0	32.0						
	35.6	4668	1.6	39.35	56.0	50.0	66.0	32.0						
	41.5	3999	2.1	33.71	55.0	50.0	66.0	32.0						
	49.8	3335	2.5	28.11	53.0	50.0	66.0	31.0						
	57.9	2870	2.9	24.19	52.0	50.0	66.0	30.0						
	31.9	4973	1.3	87.70	44.0	50.0	66.0	33.0	PKD 6390 160M2D / 160L2C	410	254-255			
	36.7	4328	1.4	76.33	49.0	50.0	66.0	33.0						
	41.7	3810	1.6	67.20	53.0	50.0	66.0	33.0						
	50.0	3177	2.0	56.03	57.0	50.0	66.0	33.0						
	58.1	2735	2.2	48.23	57.0	50.0	66.0	33.0						
	71.2	2231	2.5	39.35	56.0	50.0	66.0	32.0						
	31.1	5338	0.9	45.00	23.0	45.0	38.0	20.0	PKD 5390 180M4A / 180M4B	311	246-247			
	35.2	4714	1.0	39.74	28.0	45.0	38.0	20.0						
	51.2	3247	1.4	27.37	34.0	45.0	38.0	20.0						
	59.9	2773	1.6	23.38	35.0	45.0	38.0	20.0						
	62.0	2679	1.6	22.58	36.0	45.0	38.0	20.0						
	70.2	2365	1.8	19.94	36.0	45.0	38.0	20.0						
	78.0	2129	2.0	17.95	37.0	45.0	38.0	20.0						
	85.5	1942	2.2	16.37	35.0	45.0	38.0	19.0						
	103.7	1601	2.7	13.50	34.0	45.0	38.0	18.0						
	117.4	1414	2.8	11.92	33.0	45.0	38.0	18.0						
	130.4	1274	2.3	10.74	33.0	45.0	38.0	18.0						
	139.0	1195	2.3	10.07	32.0	45.0	38.0	17.0						
	148.0	1122	2.3	9.46	32.0	45.0	38.0	17.0						
	172.2	964	2.7	8.13	31.0	45.0	38.0	17.0						
	38.8	4093	0.9	72.18	23.0	45.0	38.0	25.0	PKD 5390 160M2D / 160L2C	270	246-247			
	44.8	3541	1.0	62.45	23.0	45.0	38.0	22.0						
	51.3	3093	1.2	54.55	23.0	45.0	38.0	22.0						
	62.2	2552	1.4	45.00	23.0	45.0	38.0	20.0						
	70.5	2253	1.6	39.74	28.0	45.0	38.0	20.0						
	77.3	2053	1.8	36.21	34.0	45.0	38.0	20.0						
	89.4	1776	2.1	31.33	34.0	45.0	38.0	20.0						
	102.3	1552	2.3	27.37	34.0	45.0	38.0	20.0						
	119.8	1326	2.5	23.38	35.0	45.0	38.0	20.0						
	124.0	1280	2.6	22.58	36.0	45.0	38.0	20.0						
	140.4	1131	2.9	19.94	36.0	45.0	38.0	20.0						



P₁ [kW]	n₂ [Min ⁻¹]	M₂ [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{R GR} [kN]	F_{A GR} [kN]	Tip / Type / Typ IE2 / IE3	 Kg	 mm		
18.5	58.8	2700	0.8	47.61	18.0	27.0	28.0	10.0	PKD 4390 160M2D / 160L2C	195	238-239		
	69.0	2300	0.9	40.56	18.0	27.0	28.0	10.0					
	81.4	1949	1.1	34.38	18.0	27.0	23.0	8.0					
	100.3	1584	1.3	27.93	18.0	27.0	25.0	9.0					
	117.3	1354	1.5	23.88	18.0	27.0	26.0	9.0					
	137.6	1154	1.7	20.35	18.0	27.0	27.0	10.0					
	153.4	1035	1.8	18.25	18.0	27.0	27.0	10.0					
	178.5	890	1.7	15.69	18.0	27.0	26.0	10.0					
	208.6	761	2.0	13.42	18.0	27.0	26.0	10.0					
	245.0	648	1.8	11.43	18.0	27.0	26.0	10.0					
	273.2	581	2.0	10.25	18.0	27.0	26.0	10.0					
	297.2	534	2.1	9.42	18.0	27.0	26.0	10.0					
	317.1	501	2.1	8.83	18.0	27.0	26.0	10.0					
22.0	2.8	69421	0.8	320.72	-	-	-	-	PKD G 9390/62 200L6C / 200L6D	1965	282		
	3.0	64323	0.8	297.17	-	-	-	-					
	3.3	58462	0.9	270.09	-	-	-	-					
	3.9	50544	1.0	233.51	-	-	-	-					
	4.3	45228	1.2	208.95	-	-	-	-					
	3.0	64050	0.8	474.22	-	-	-	-	PKD G 9390/62 180M4B / 180L4B	1907	282		
	3.2	58213	0.9	431.00	-	-	-	-					
	3.8	50102	1.0	370.95	-	-	-	-					
	4.4	43318	1.2	320.72	-	-	-	-					
	4.7	40137	1.2	297.17	-	-	-	-					
	5.2	36480	1.4	270.09	-	-	-	-					
	6.0	31539	1.6	233.51	-	-	-	-					
	6.7	28222	1.8	208.95	-	-	-	-					
	4.0	44130	0.9	702.80	-	-	-	-	PKD G 9390/62 180M2A	1907	282		
	4.6	38154	1.0	607.63	-	-	-	-					
	5.2	33803	1.1	538.33	-	-	-	-					
	5.9	29777	1.3	474.22	-	-	-	-					
	6.5	27063	1.4	431.00	-	-	-	-					
	7.5	23293	1.6	370.95	-	-	-	-					
	8.7	20139	1.9	320.72	-	-	-	-					
	9.4	18660	2.0	297.17	-	-	-	-					
	10.4	16960	2.2	270.09	-	-	-	-					
	12.0	14663	2.6	233.51	-	-	-	-					
	13.4	13120	2.9	208.95	-	-	-	-					
	5.0	38007	0.8	281.40	93.0	70.0	160.0	70.0	PKD 9390/52 180M4B / 180L4B	1607	280		
	6.3	30141	1.1	223.16	121.0	70.0	160.0	70.0					
	7.3	25903	1.2	191.78	154.0	70.0	-	-					
	7.2	24252	1.0	386.23	93.0	70.0	160.0	70.0	PKD 9390/52 180M2A	1607	280		
	10.0	17670	1.4	281.40	93.0	70.0	160.0	70.0					
	12.5	14013	1.7	223.16	121.0	70.0	160.0	70.0					
	14.6	12042	2.0	191.78	154.0	70.0	160.0	70.0					
	4.5	44746	1.2	200.57	220.0	100.0	-	-					
	5.2	38687	1.4	173.41	220.0	100.0	-	-	PKD G 9390 200L6C / 200L6D	1834	274-275		
5.8	34422	1.5	154.29	220.0	100.0	-	-						
6.7	29790	1.8	133.53	220.0	100.0	-	-						
7.6	26366	2.0	118.18	220.0	100.0	-	-						
8.8	22796	2.3	102.18	220.0	100.0	-	-						
10.0	19989	2.6	89.60	220.0	100.0	-	-						
11.1	18167	2.9	81.43	220.0	100.0	-	-						
7.0	28294	1.8	200.57	220.0	100.0	-	-	PKD G 9390 180M4B / 180L4B				1776	274-275
8.1	24462	2.0	173.41	220.0	100.0	-	-						
9.1	21765	2.3	154.29	220.0	100.0	-	-						
10.5	18837	2.7	133.53	220.0	100.0	-	-						
11.8	16671	3.0	118.18	220.0	100.0	-	-						
14.0	13524	2.8	200.57	220.0	100.0	-	-	PKD G 9390 180M2A	1776	274-275			



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 / Typ IE2 / IE3	 Kg	 mm			
22.0	4.6	44088	0.8	197.62	129.0	70.0	160.0	70.0	PKD 9390 200L6C / 200L6D	1589	270-271			
	7.5	26825	1.3	120.24	149.0	70.0	160.0	70.0						
	8.8	22838	1.5	102.37	151.0	70.0	160.0	70.0						
	9.8	20465	1.6	91.73	153.0	70.0	160.0	70.0						
	11.3	17845	1.9	79.99	154.0	70.0	160.0	70.0						
	13.0	15400	2.2	69.03	128.0	70.0	160.0	70.0						
	15.3	13098	2.6	58.71	128.0	70.0	160.0	70.0						
	18.1	11099	3.0	49.75	128.0	70.0	160.0	70.0						
	4.7	42008	0.8	297.79	128.0	70.0	160.0	70.0				PKD 9390 180M4B / 180L4B	1531	270-271
	5.5	35727	0.9	253.26	138.0	70.0	160.0	70.0						
	7.1	27878	1.1	197.62	129.0	70.0	160.0	70.0						
	9.1	21599	1.5	153.11	142.0	70.0	160.0	70.0						
	11.6	16962	1.9	120.24	149.0	70.0	160.0	70.0						
	13.7	14441	2.2	102.37	151.0	70.0	160.0	70.0						
	15.3	12940	2.5	91.73	153.0	70.0	160.0	70.0						
	17.5	11284	2.8	79.99	154.0	70.0	160.0	70.0						
	9.4	20080	1.2	297.79	128.0	70.0	160.0	70.0	PKD 9390 180M2A	1531	270-271			
	11.1	17077	1.4	253.26	138.0	70.0	160.0	70.0						
	14.2	13325	1.8	197.62	129.0	70.0	160.0	70.0						
	18.3	10324	2.4	153.11	142.0	70.0	160.0	70.0						
	23.3	8108	3.0	120.24	149.0	70.0	160.0	70.0						
	8.1	23257	0.8	172.19	78.0	65.0	120.0	65.0	PKD G 8390/52 180M4B / 180L4B	1037	280			
	9.7	19564	0.9	144.85	103.0	65.0	120.0	65.0						
	10.3	17070	0.9	271.85	78.0	65.0	120.0	65.0	PKD G 8390/52 180M2A	1037	280			
	11.8	14841	1.0	236.35	78.0	65.0	120.0	65.0						
	16.3	10812	1.4	172.19	78.0	65.0	120.0	65.0						
	19.3	9095	1.5	144.85	103.0	65.0	120.0	65.0						
	15.4	11448	0.9	182.32	95.0	60.0	-	-	PKD 8390/52 180M2A	787	280			
	19.1	9190	1.1	146.35	95.0	60.0	-	-						
	22.6	7764	1.2	123.64	95.0	60.0	95.0	60.0						
	9.9	20219	1.0	90.63	112.0	65.0	120.0	65.0	PKD G 8390 200L6C / 200L6D	1019	266-267			
	11.5	17477	1.2	78.34	117.0	65.0	-	-						
	13.3	15077	1.4	67.58	117.0	65.0	120.0	65.0						
	15.3	13154	1.6	58.96	119.0	65.0	120.0	65.0						
	17.9	11249	1.9	50.42	116.0	65.0	120.0	65.0						
	21.3	9424	2.2	42.24	99.0	65.0	120.0	65.0						
	25.3	7927	2.4	35.53	99.0	65.0	120.0	65.0						
	9.2	21424	0.9	151.87	91.0	65.0	120.0	65.0				PKD G 8390 180M4B / 180L4B	961	266-267
	11.0	18021	1.1	127.75	99.0	65.0	120.0	65.0						
	12.0	16451	1.2	116.62	103.0	65.0	120.0	65.0						
	15.4	12785	1.6	90.63	112.0	65.0	120.0	65.0						
	17.9	11051	1.8	78.34	-	-	-	-						
	20.7	9533	2.1	67.58	117.0	65.0	120.0	65.0						
	23.7	8317	2.4	58.96	119.0	65.0	120.0	65.0						
	27.8	7113	2.8	50.42	116.0	65.0	120.0	65.0						
	12.1	15555	1.0	230.68	91.0	65.0	120.0	65.0	PKD G 8390 180M2A	961	266-267			
	14.4	13084	1.2	194.04	91.0	65.0	120.0	65.0						
	18.4	10241	1.5	151.87	91.0	65.0	120.0	65.0						
21.9	8614	1.8	127.75	99.0	65.0	120.0	65.0							
24.0	7864	1.9	116.62	103.0	65.0	120.0	65.0							
30.9	6111	2.5	90.63	112.0	65.0	120.0	65.0							
35.7	5282	2.9	78.34	117.0	65.0	-	-							
12.6	15965	0.9	71.56	88.0	60.0	95.0	60.0	PKD 8390 200L6C / 200L6D	769	262-263				
14.4	13928	1.0	62.43	90.0	60.0	95.0	60.0							
16.9	11911	1.1	53.39	89.0	60.0	95.0	60.0							
20.1	9979	1.4	44.73	86.0	60.0	95.0	60.0							
21.6	9283	1.5	41.61	84.0	60.0	95.0	60.0							
25.1	8009	1.7	35.90	82.0	60.0	95.0	60.0							
28.7	6987	2.0	31.32	80.0	60.0	95.0	60.0							
33.6	5977	2.3	26.79	86.0	60.0	95.0	60.0							
40.1	5006	2.7	22.44	86.0	60.0	95.0	59.0							

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 / Typ IE2 / IE3						
22.0	11.4	17286	0.8	122.54	86.0	60.0	95.0	60.0	PKD 8390 180M4B / 180L4B	711	262-263				
	12.0	16441	0.8	116.55	82.0	60.0	95.0	60.0							
	14.6	13537	1.0	95.96	81.0	60.0	95.0	60.0							
	16.9	11702	1.1	82.95	85.0	60.0	95.0	60.0							
	19.6	10095	1.3	71.56	88.0	60.0	95.0	60.0							
	22.4	8807	1.5	62.43	90.0	60.0	95.0	60.0							
	26.2	7532	1.7	53.39	89.0	60.0	95.0	60.0							
	31.3	6310	2.1	44.73	86.0	60.0	95.0	60.0							
	33.6	5870	2.2	41.61	84.0	60.0	95.0	60.0							
	39.0	5064	2.6	35.90	82.0	60.0	95.0	60.0							
44.7	4418	2.9	31.32	80.0	60.0	95.0	60.0								
	18.8	10036	1.0	148.84	86.0	60.0	95.0	60.0	PKD 8390 180M2A	711	262-263				
	22.8	8263	1.2	122.54	86.0	60.0	95.0	60.0							
	24.0	7859	1.3	116.55	82.0	60.0	95.0	60.0							
	29.2	6471	1.5	95.96	81.0	60.0	95.0	60.0							
	33.8	5593	1.8	82.95	85.0	60.0	95.0	60.0							
	39.1	4825	2.0	71.56	88.0	60.0	95.0	60.0							
	44.9	4210	2.3	62.43	90.0	60.0	95.0	60.0							
	52.4	3600	2.7	53.39	89.0	60.0	95.0	60.0							
		17.9	11220	0.8	50.29	54.0	50.0	66.0				27.0	PKD 7390 200L6C / 200L6D	509	258-259
		20.1	9997	0.8	44.81	53.0	50.0	66.0				27.0			
21.9		9156	0.9	41.04	53.0	50.0	66.0	27.0							
25.6		7844	1.1	35.16	52.0	50.0	66.0	27.0							
30.7		6541	1.4	29.32	51.0	50.0	66.0	26.0							
35.7		5629	1.6	25.23	49.0	50.0	66.0	26.0							
40.0		5015	1.8	22.48	48.0	50.0	66.0	26.0							
43.7		4594	1.9	20.59	48.0	50.0	66.0	25.0							
49.0		4098	2.0	18.37	47.0	50.0	66.0	25.0							
54.7		3668	2.1	16.44	44.0	50.0	66.0	24.0							
58.1		3456	2.3	15.49	44.0	50.0	66.0	24.0							
64.1		3132	1.7	14.04	44.0	50.0	66.0	23.0							
71.9		2791	1.9	12.51	41.0	50.0	62.0	21.0							
74.6		2691	2.0	12.06	40.0	50.0	62.0	21.0							
78.5		2557	2.1	11.46	39.0	50.0	61.0	21.0							
88.1		2280	2.2	10.22	39.0	50.0	60.0	21.0							
98.4	2041	2.4	9.15	39.0	50.0	59.0	21.0								
	17.6	11230	0.8	79.61	47.0	50.0	66.0	28.0	PKD 7390 180M4B / 180L4B	451	258-259				
	20.0	9886	0.9	70.08	45.0	50.0	66.0	25.0							
	24.0	8244	1.0	58.44	52.0	50.0	66.0	26.0							
	27.8	7094	1.2	50.29	54.0	50.0	66.0	27.0							
	31.2	6321	1.2	44.81	53.0	50.0	66.0	27.0							
	34.1	5789	1.3	41.04	53.0	50.0	66.0	27.0							
	39.8	4960	1.7	35.16	52.0	50.0	66.0	27.0							
	47.7	4136	2.1	29.32	51.0	50.0	66.0	26.0							
	55.5	3559	2.4	25.23	49.0	50.0	66.0	26.0							
	62.3	3171	2.7	22.48	48.0	50.0	66.0	26.0							
	68.0	2905	2.9	20.59	48.0	50.0	66.0	25.0							
	76.2	2591	3.0	18.37	47.0	50.0	66.0	25.0							
	99.7	1981	2.6	14.04	44.0	50.0	66.0	23.0							
	111.9	1765	2.8	12.51	41.0	50.0	62.0	21.0							
116.1	1701	2.9	12.06	40.0	50.0	62.0	21.0								
	30.6	6166	1.0	91.45	47.0	50.0	66.0	27.0	PKD 7390 180M2A	451	258-259				
	35.2	5368	1.2	79.61	47.0	50.0	66.0	28.0							
	40.0	4725	1.4	70.08	45.0	50.0	66.0	25.0							
	47.9	3941	1.6	58.44	52.0	50.0	66.0	26.0							
	55.7	3391	1.8	50.29	54.0	50.0	66.0	27.0							
	62.5	3022	1.9	44.81	53.0	50.0	66.0	27.0							
	68.2	2767	2.1	41.04	53.0	50.0	66.0	27.0							
	79.6	2371	2.7	35.16	52.0	50.0	66.0	27.0							

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 / Typ IE2 / IE3	 Kg	 mm
22.0	18.7	10760	0.8	48.23	54.0	50.0	66.0	31.0	PKD 6390 200L6C / 200L6D	509	254-255
	20.9	9586	0.8	42.97	54.0	50.0	66.0	31.0			
	22.9	8779	0.9	39.35	53.0	50.0	66.0	30.0			
	26.7	7521	1.1	33.71	53.0	50.0	66.0	30.0			
	32.0	6271	1.4	28.11	51.0	50.0	66.0	29.0			
	37.2	5397	1.6	24.19	50.0	50.0	66.0	29.0			
	41.7	4810	1.8	21.56	49.0	50.0	66.0	28.0			
	45.6	4404	2.0	19.74	48.0	50.0	66.0	28.0			
	51.1	3931	2.0	17.62	47.0	50.0	66.0	27.0			
	57.1	3516	2.2	15.76	44.0	50.0	66.0	27.0			
	60.7	3309	2.3	14.83	44.0	50.0	66.0	26.0			
	67.7	2965	1.8	13.29	44.0	50.0	66.0	26.0			
	76.0	2641	1.9	11.84	43.0	50.0	66.0	25.0			
	78.8	2548	2.0	11.42	42.0	50.0	66.0	25.0			
	82.9	2421	2.1	10.85	44.0	50.0	66.0	25.0			
93.0	2160	2.2	9.68	44.0	50.0	66.0	24.0				
103.9	1932	2.4	8.66	44.0	50.0	66.0	23.0				
	18.3	10768	0.8	76.33	49.0	50.0	66.0	33.0	PKD 6390 180M4B / 180L4B	451	254-255
	20.8	9480	0.9	67.20	48.0	50.0	66.0	30.0			
	25.0	7904	1.0	56.03	53.0	50.0	66.0	30.0			
	29.0	6804	1.2	48.23	54.0	50.0	66.0	31.0			
	32.6	6062	1.2	42.97	54.0	50.0	66.0	31.0			
	35.6	5551	1.3	39.35	53.0	50.0	66.0	30.0			
	41.5	4755	1.7	33.71	53.0	50.0	66.0	30.0			
	49.8	3965	2.1	28.11	51.0	50.0	66.0	29.0			
	57.9	3412	2.4	24.19	50.0	50.0	66.0	29.0			
	64.9	3041	2.7	21.56	49.0	50.0	66.0	28.0			
	70.9	2785	2.9	19.74	48.0	50.0	66.0	28.0			
	79.5	2486	3.0	17.62	47.0	50.0	66.0	27.0			
	105.3	1875	2.7	13.29	44.0	50.0	66.0	26.0			
	118.2	1670	2.9	11.84	43.0	50.0	66.0	25.0			
	122.6	1611	3.0	11.42	42.0	50.0	66.0	25.0			
	31.9	5914	1.1	87.70	49.0	50.0	66.0	33.0	PKD 6390 180M2A	451	254-255
	36.7	5147	1.2	76.33	49.0	50.0	66.0	33.0			
	41.7	4531	1.4	67.20	48.0	50.0	66.0	30.0			
	50.0	3778	1.6	56.03	53.0	50.0	66.0	30.0			
	58.1	3252	1.8	48.23	54.0	50.0	66.0	31.0			
	65.2	2897	1.9	42.97	54.0	50.0	66.0	31.0			
	71.2	2653	2.1	39.35	53.0	50.0	66.0	30.0			
	83.1	2273	2.7	33.71	53.0	50.0	66.0	30.0			
		31.1	6348	0.8	45.00	23.0	45.0	38.0			
35.2		5606	0.9	39.74	21.0	44.0	38.0	18.0			
51.2		3861	1.2	27.37	32.0	45.0	38.0	19.0			
59.9		3298	1.3	23.38	34.0	44.0	38.0	19.0			
62.0		3185	1.3	22.58	34.0	44.0	38.0	19.0			
70.2		2813	1.5	19.94	35.0	44.0	38.0	19.0			
78.0		2532	1.7	17.95	35.0	43.0	38.0	19.0			
85.5		2309	1.9	16.37	34.0	42.0	38.0	18.0			
103.7		1904	2.3	13.50	33.0	41.0	38.0	18.0			
117.4		1682	2.3	11.92	32.0	40.0	38.0	17.0			
130.4		1515	1.9	10.74	32.0	39.0	38.0	17.0			
139.0		1421	2.0	10.07	31.0	39.0	38.0	17.0			
148.0		1334	1.9	9.46	31.0	39.0	38.0	17.0			
172.2		1147	2.3	8.13	30.0	38.0	38.0	16.0			
		51.3	3678	1.0	54.55	23.0	45.0	38.0	22.0	PKD 5390 180M2A	311
	62.2	3034	1.2	45.00	23.0	45.0	38.0	22.0			
	70.5	2680	1.4	39.74	21.0	44.0	38.0	18.0			
	102.3	1846	1.9	27.37	32.0	45.0	38.0	19.0			
	119.8	1577	2.1	23.38	34.0	44.0	38.0	19.0			
	124.0	1523	2.1	22.58	34.0	44.0	38.0	19.0			
	140.4	1345	2.4	19.94	35.0	44.0	38.0	19.0			
	156.0	1210	2.7	17.95	35.0	43.0	38.0	19.0			
	171.0	1104	3.0	16.37	34.0	42.0	38.0	18.0			
	260.7	724	3.0	10.74	32.0	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_{RGR} [kN]	F_{AGR} [kN]	Tip / Type / Typ IE2 / IE3			
30.0	3.9 4.3	68924 61675	0.8 0.9	233.51 208.95	- -	- -	- -	- -	PKD G 9390/62 225M6B / 225M6C	2038	282	
	4.4 4.7 5.2 6.0 6.7	59070 54732 49745 43008 38484	0.8 0.9 1.0 1.2 1.3	320.72 297.17 270.09 233.51 208.95	- - - - -	- - - - -	- - - - -	- - - - -	PKD G 9390/62 200L4C / 200L4D	1965	282	
	5.2 5.9 6.5 7.5 8.7 9.4 10.4 12.0 13.4	46095 40605 36905 31763 27462 25445 23127 19994 17891	0.8 0.9 1.0 1.2 1.4 1.5 1.6 1.9 2.1	538.33 474.22 431.00 370.95 320.72 297.17 270.09 233.51 208.95	- - - - - - - - -	- - - - - - - - -	- - - - - - - - -	- - - - - - - - -	PKD G 9390/62 200L2B / 200L2C	1965	282	
	4.5 5.2 5.8 6.7 7.6 8.8 10.0 11.1 12.8 13.8	61018 52755 46938 40623 35953 31085 27258 24773 21420 19796	0.9 1.0 1.1 1.3 1.5 1.7 1.9 2.1 2.5 2.7	200.57 173.41 154.29 133.53 118.18 102.18 89.60 81.43 70.41 65.07	220.0 220.0 220.0 220.0 220.0 220.0 220.0 220.0 220.0 220.0	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	- - - - - - - - - -	- - - - - - - - - -	PKD G 9390 225M6B / 225M6C	1907	274-275	
	7.0 8.1 9.1 10.5 11.8 13.7 15.6	38583 33358 29680 25686 22734 19656 17236	1.3 1.5 1.7 1.9 2.2 2.5 2.9	200.57 173.41 154.29 133.53 118.18 102.18 89.60	220.0 220.0 220.0 220.0 220.0 220.0 220.0	100.0 100.0 100.0 100.0 100.0 100.0 100.0	- - - - - - -	- - - - - - -	PKD G 9390 200L4C / 200L4D	1834	274-275	
	14.0 16.1 18.1	18442 15945 14187	2.1 2.4 2.7	200.57 173.41 154.29	220.0 220.0 220.0	100.0 100.0 100.0	- - -	- - -	PKD G 9390 200L2B / 200L2C	1834	274-275	
	7.5 8.8 9.8 11.3 13.0 15.3 18.1 22.1 23.0	36580 31143 27906 24335 21000 17861 15135 12403 11907	0.9 1.1 1.2 1.4 1.6 1.9 2.2 2.7 2.8	120.24 102.37 91.73 79.99 69.03 58.71 49.75 40.77 39.14	139.0 145.0 148.0 150.0 153.0 154.0 128.0 128.0 128.0	70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0	160.0 160.0 160.0 160.0 160.0 160.0 160.0 160.0 160.0	70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0	PKD 9390 225M6B / 225M6C	1662	270-271	
	7.1 11.6 13.7 15.3 17.5 20.3 23.8	38015 23130 19692 17646 15387 13279 11294	0.8 1.4 1.6 1.8 2.1 2.4 2.8	197.62 120.24 102.37 91.73 79.99 69.03 58.71	129.0 139.0 145.0 148.0 150.0 153.0 154.0	70.0 70.0 70.0 70.0 70.0 70.0 70.0	160.0 160.0 160.0 160.0 160.0 160.0 160.0	70.0 70.0 70.0 70.0 70.0 70.0 70.0	PKD 9390 200L4C / 200L4D	1589	270-271	
	14.2 23.3 27.4 30.5	18171 11056 9413 8435	1.3 2.2 2.6 2.9	197.62 120.24 102.37 91.73	129.0 139.0 145.0 148.0	70.0 70.0 70.0 70.0	160.0 160.0 160.0 160.0	70.0 70.0 70.0 70.0	PKD 9390 200L2B / 200L2C	1589	270-271	

P_1 [kW]	n_2 [Min ⁻¹]	M_2 [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{RGR} [kN]	F_{AGR} [kN]	Tip / Type / Typ IE2 / IE3					
30.0	9.9	27572	0.8	90.63	102.0	65.0	120.0	65.0	PKD G 8390 225M6B / 225M6C	1092	266-267			
	11.5	23833	0.9	78.34	113.0	65.0	-	-						
	13.3	20559	1.0	67.58	113.0	65.0	120.0	65.0						
	15.3	17937	1.2	58.96	114.0	65.0	120.0	65.0						
	17.9	15339	1.4	50.42	111.0	65.0	120.0	65.0						
	21.3	12850	1.6	42.24	108.0	65.0	120.0	65.0						
	25.3	10809	1.7	35.53	104.0	65.0	120.0	65.0						
	30.4	8999	2.3	29.58	91.0	65.0	120.0	65.0						
	35.6	7697	2.7	25.30	91.0	65.0	120.0	65.0						
	11.0	24575	0.8	127.75	107.0	65.0	120.0	65.0				PKD G 8390 200L4C / 200L4D	1019	266-267
	15.4	17434	1.1	90.63	102.0	65.0	120.0	65.0						
	17.9	15070	1.3	78.34	-	-	-	-						
	20.7	13000	1.5	67.58	113.0	65.0	120.0	65.0						
	23.7	11342	1.8	58.96	114.0	65.0	120.0	65.0						
	27.8	9699	2.1	50.42	111.0	65.0	120.0	65.0						
	33.1	8125	2.5	42.24	108.0	65.0	120.0	65.0						
	39.4	6835	2.6	35.53	104.0	65.0	120.0	65.0						
	18.4	13964	1.1	151.87	107.0	65.0	120.0	65.0	PKD G 8390 200L2B / 200L2C	1019	266-267			
	21.9	11747	1.3	127.75	107.0	65.0	120.0	65.0						
	30.9	8333	1.8	90.63	102.0	65.0	120.0	65.0						
	35.7	7203	2.1	78.34	113.0	65.0	-	-						
	41.4	6214	2.4	67.58	113.0	65.0	120.0	65.0						
	47.5	5421	2.8	58.96	114.0	65.0	120.0	65.0						
	16.9	16242	0.8	53.39	83.0	60.0	95.0	60.0	PKD 8390 225M6B / 225M6C	842	262-263			
	20.1	13608	1.0	44.73	81.0	60.0	95.0	60.0						
	21.6	12659	1.1	41.61	80.0	60.0	95.0	60.0						
	25.1	10922	1.2	35.90	78.0	60.0	95.0	60.0						
	28.7	9528	1.4	31.32	76.0	60.0	95.0	60.0						
	33.6	8150	1.7	26.79	74.0	60.0	95.0	60.0						
	40.1	6827	2.0	22.44	71.0	60.0	95.0	59.0						
	44.6	6139	2.2	20.18	86.0	60.0	95.0	54.0						
	51.9	5272	2.6	17.33	86.0	60.0	95.0	56.0						
	72.9	3757	2.3	12.35	86.0	60.0	95.0	51.0						
	16.9	15957	0.8	82.95	76.0	60.0	95.0	60.0				PKD 8390 200L4C / 200L4D	769	262-263
	19.6	13766	0.9	71.56	80.0	60.0	95.0	60.0						
	22.4	12009	1.1	62.43	84.0	60.0	95.0	60.0						
	26.2	10270	1.3	53.39	83.0	60.0	95.0	60.0						
	31.3	8604	1.5	44.73	81.0	60.0	95.0	60.0						
	33.6	8004	1.6	41.61	80.0	60.0	95.0	60.0						
	39.0	6906	1.9	35.90	78.0	60.0	95.0	60.0						
	44.7	6025	2.2	31.32	76.0	60.0	95.0	60.0						
	52.3	5153	2.5	26.79	74.0	60.0	95.0	60.0						
62.4	4317	3.0	22.44	71.0	60.0	95.0	59.0							
24.0	10717	0.9	116.55	76.0	60.0	95.0	60.0	PKD 8390 200L2B / 200L2C	769	262-263				
29.2	8823	1.1	95.96	76.0	60.0	95.0	60.0							
33.8	7627	1.3	82.95	76.0	60.0	95.0	60.0							
39.1	6580	1.5	71.56	80.0	60.0	95.0	60.0							
44.9	5740	1.7	62.43	84.0	60.0	95.0	60.0							
52.4	4909	2.0	53.39	83.0	60.0	95.0	60.0							
62.6	4113	2.4	44.73	81.0	60.0	95.0	60.0							
67.3	3826	2.6	41.61	80.0	60.0	95.0	60.0							
78.0	3301	3.0	35.90	78.0	60.0	95.0	60.0							



P₁ [kW]	n₂ [Min ⁻¹]	M₂ [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{R GR} [kN]	F_{A GR} [kN]	Tip / Type / Typ IE2 / IE3	 Kg	 mm
30.0	25.6	10696	0.8	35.16	47.0	50.0	66.0	23.0	PKD 7390 225M6B / 225M6C	582	258-259
	30.7	8920	1.0	29.32	47.0	50.0	66.0	23.0			
	35.7	7676	1.2	25.23	46.0	50.0	66.0	23.0			
	40.0	6839	1.3	22.48	45.0	50.0	66.0	23.0			
	43.7	6264	1.4	20.59	45.0	50.0	66.0	23.0			
	49.0	5589	1.5	18.37	44.0	50.0	66.0	23.0			
	54.7	5001	1.6	16.44	43.0	50.0	66.0	23.0			
	58.1	4712	1.7	15.49	43.0	50.0	65.0	22.0			
	64.1	4271	1.3	14.04	41.0	50.0	63.0	22.0			
	71.9	3806	1.4	12.51	41.0	50.0	62.0	21.0			
	74.6	3669	1.4	12.06	40.0	50.0	62.0	21.0			
	78.5	3486	1.5	11.46	40.0	50.0	61.0	21.0			
	88.1	3109	1.6	10.22	39.0	50.0	60.0	21.0			
	98.4	2784	1.8	9.15	38.0	50.0	59.0	21.0			
		24.0	11242	0.8	58.44	52.0	50.0	66.0			
27.8		9674	0.8	50.29	46.0	50.0	66.0	22.0			
31.2		8620	0.9	44.81	47.0	50.0	66.0	22.0			
34.1		7895	1.0	41.04	47.0	50.0	66.0	23.0			
39.8		6764	1.3	35.16	47.0	50.0	66.0	23.0			
47.7		5640	1.5	29.32	47.0	50.0	66.0	23.0			
55.5		4853	1.8	25.23	46.0	50.0	66.0	23.0			
62.3		4324	2.0	22.48	45.0	50.0	66.0	23.0			
68.0		3961	2.1	20.59	45.0	50.0	66.0	23.0			
76.2		3534	2.2	18.37	44.0	50.0	66.0	23.0			
85.2		3162	2.4	16.44	43.0	50.0	66.0	23.0			
90.4		2980	2.5	15.49	43.0	50.0	65.0	22.0			
99.7		2701	1.9	14.04	41.0	50.0	63.0	22.0			
111.9		2406	2.1	12.51	41.0	50.0	62.0	21.0			
116.1		2320	2.2	12.06	40.0	50.0	62.0	21.0			
122.2	2204	2.3	11.46	40.0	50.0	61.0	21.0				
137.0	1966	2.4	10.22	39.0	50.0	60.0	21.0				
153.0	1760	2.7	9.15	38.0	50.0	59.0	21.0				
	40.0	6444	1.0	70.08	52.0	50.0	66.0	25.0	PKD 7390 200L2B / 200L2C	509	258-259
	47.9	5374	1.2	58.44	52.0	50.0	66.0	26.0			
	55.7	4624	1.3	50.29	46.0	50.0	66.0	22.0			
	62.5	4120	1.4	44.81	47.0	50.0	66.0	22.0			
	68.2	3774	1.6	41.04	47.0	50.0	66.0	23.0			
	79.6	3233	2.0	35.16	47.0	50.0	66.0	23.0			
	95.5	2696	2.4	29.32	47.0	50.0	66.0	23.0			
	111.0	2320	2.8	25.23	46.0	50.0	66.0	23.0			
	26.7	10255	0.8	33.71	48.0	50.0	66.0	27.0	PKD 6390 225M6B / 225M6C	582	254-255
	32.0	8552	1.0	28.11	47.0	50.0	66.0	27.0			
	37.2	7359	1.2	24.19	46.0	50.0	66.0	26.0			
	41.7	6559	1.3	21.56	46.0	50.0	66.0	26.0			
	45.6	6005	1.4	19.74	45.0	50.0	66.0	26.0			
	51.1	5360	1.5	17.62	45.0	50.0	66.0	26.0			
	57.1	4795	1.6	15.76	44.0	50.0	66.0	25.0			
	60.7	4512	1.7	14.83	43.0	50.0	66.0	25.0			
	67.7	4043	1.3	13.29	42.0	50.0	66.0	24.0			
	76.0	3602	1.4	11.84	41.0	50.0	66.0	24.0			
	78.8	3474	1.5	11.42	41.0	50.0	66.0	24.0			
	82.9	3301	1.5	10.85	40.0	50.0	66.0	23.0			
	93.0	2945	1.6	9.68	39.0	50.0	66.0	23.0			
103.9	2635	1.8	8.66	38.0	50.0	66.0	23.0				



P₁ [kW]	n₂ [Min ⁻¹]	M₂ [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{R GR} [kN]	F_{A GR} [kN]	Tip / Type / Typ IE2 / IE3	Kg	mm				
30.0	25.0	10778	0.8	56.03	53.0	50.0	66.0	30.0	PKD 6390 200L4C / 200L4D	509	254-255				
	29.0	9278	0.9	48.23	47.0	50.0	66.0	26.0							
	32.6	8266	0.9	42.97	47.0	50.0	66.0	26.0							
	35.6	7570	1.0	39.35	48.0	50.0	66.0	26.0							
	41.5	6485	1.3	33.71	48.0	50.0	66.0	27.0							
	49.8	5407	1.5	28.11	47.0	50.0	66.0	27.0							
	57.9	4653	1.8	24.19	46.0	50.0	66.0	26.0							
	64.9	4147	2.0	21.56	46.0	50.0	66.0	26.0							
	70.9	3797	2.2	19.74	45.0	50.0	66.0	26.0							
	79.5	3389	2.2	17.62	45.0	50.0	66.0	26.0							
	88.8	3032	2.4	15.76	44.0	50.0	66.0	25.0							
	94.4	2853	2.5	14.83	43.0	50.0	66.0	25.0							
	105.3	2557	2.0	13.29	42.0	50.0	66.0	24.0							
	118.2	2278	2.1	11.84	41.0	50.0	66.0	24.0							
	122.6	2197	2.2	11.42	41.0	50.0	66.0	24.0							
	129.0	2087	2.3	10.85	40.0	50.0	66.0	23.0							
	144.6	1862	2.4	9.68	39.0	50.0	66.0	23.0							
	161.7	1666	2.7	8.66	38.0	50.0	66.0	23.0							
	37.0	41.7	6179	1.0	67.20	53.0	50.0	66.0				30.0	PKD 6390 200L2B / 200L2C	509	254-255
		50.0	5152	1.2	56.03	53.0	50.0	66.0				30.0			
58.1		4435	1.4	48.23	47.0	50.0	66.0	26.0							
65.2		3951	1.4	42.97	47.0	50.0	66.0	26.0							
71.2		3618	1.6	39.35	48.0	50.0	66.0	26.0							
83.1		3100	2.0	33.71	48.0	50.0	66.0	27.0							
99.6		2585	2.4	28.11	47.0	50.0	66.0	27.0							
115.8		2224	2.8	24.19	46.0	50.0	66.0	26.0							
5.2		61352	0.8	270.09	220.0	100.0	-	-	PKD G 9390/62 225M4A / 225M4B	2038	282				
6.0		53043	0.9	233.51	220.0	100.0	-	-							
6.7		47464	1.1	208.95	220.0	100.0	-	-							
37.0		5.9	50080	0.8	474.22	-	-	-	-	PKD G 9390/62 200L2C / 200L2D	1965	282			
		6.5	45516	0.8	431.00	-	-	-	-						
		7.5	39174	1.0	370.95	-	-	-	-						
		8.7	33870	1.1	320.72	-	-	-	-						
		9.4	31383	1.2	297.17	-	-	-	-						
		10.4	28523	1.3	270.09	-	-	-	-						
		12.0	24660	1.5	233.51	-	-	-	-						
		13.4	22066	1.7	208.95	-	-	-	-						
37.0		7.0	47585	1.1	200.57	220.0	100.0	-	-	PKD G 9390 225M4A / 225M4B	1907	274-275			
	8.1	41141	1.2	173.41	220.0	100.0	-	-							
	9.1	36605	1.4	154.29	220.0	100.0	-	-							
	10.5	31680	1.6	133.53	220.0	100.0	-	-							
	11.8	28038	1.8	118.18	220.0	100.0	-	-							
	13.7	24242	2.1	102.18	220.0	100.0	-	-							
	15.6	21258	2.4	89.60	220.0	100.0	-	-							
	17.2	19319	2.6	81.43	220.0	100.0	-	-							
19.9	16705	3.0	70.41	220.0	100.0	-	-								
37.0	14.0	22745	1.7	200.57	220.0	100.0	-	-	PKD G 9390 200L2C / 200L2D	1834	274-275				
	16.1	19665	1.9	173.41	220.0	100.0	-	-							
	18.1	17497	2.2	154.29	220.0	100.0	-	-							
	21.0	15143	2.5	133.53	220.0	100.0	-	-							
	23.7	13402	2.8	118.18	220.0	100.0	-	-							
37.0	11.6	28527	1.1	120.24	128.0	70.0	160.0	70.0	PKD 9390 225M4A / 225M4B	1662	270-271				
	13.7	24287	1.3	102.37	137.0	70.0	160.0	70.0							
	15.3	21763	1.5	91.73	142.0	70.0	160.0	70.0							
	17.5	18978	1.7	79.99	146.0	70.0	160.0	70.0							
	20.3	16377	2.0	69.03	149.0	70.0	160.0	70.0							
	23.8	13929	2.3	58.71	152.0	70.0	160.0	70.0							
	28.1	11803	2.7	49.75	154.0	70.0	160.0	70.0							
	37.0	14.2	22411	1.1	197.62	128.0	70.0	160.0				70.0	PKD 9390 200L2C / 200L2D	1589	270-271
23.3		13636	1.8	120.24	128.0	70.0	160.0	70.0							
27.4		11609	2.1	102.37	137.0	70.0	160.0	70.0							
30.5		10403	2.3	91.73	142.0	70.0	160.0	70.0							
35.0		9071	2.7	79.99	146.0	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 / Typ IE2 / IE3					
37.0	15.4	21502	0.9	90.63	90.0	65.0	120.0	65.0	PKD G 8390 225M4A / 225M4B	1092	266-267			
	17.9	18586	1.1	78.34	-	-	-	-						
	20.7	16033	1.2	67.58	107.0	65.0	120.0	65.0						
	23.7	13988	1.4	58.96	109.0	65.0	120.0	65.0						
	27.8	11962	1.7	50.42	107.0	65.0	120.0	65.0						
	33.1	10021	2.0	42.24	104.0	65.0	120.0	65.0						
	39.4	8429	2.1	35.53	100.0	65.0	120.0	65.0						
	47.3	7018	2.8	29.58	97.0	65.0	120.0	65.0						
	18.4	17223	0.9	151.87	90.0	65.0	-	-				PKD G 8390 200L2C / 200L2D	1019	266-267
	21.9	14487	1.0	127.75	90.0	65.0	-	-						
	30.9	10278	1.5	90.63	90.0	65.0	120.0	65.0						
	35.7	8884	1.7	78.34	107.0	65.0	-	-						
	41.4	7664	2.0	67.58	107.0	65.0	120.0	65.0						
	47.5	6686	2.3	58.96	109.0	65.0	120.0	65.0						
	55.5	5718	2.7	50.42	107.0	65.0	120.0	65.0						
	19.6	16978	0.8	71.56	73.0	60.0	95.0	60.0	PKD 8390 225M4A / 225M4B	842	262-263			
	22.4	14811	0.9	62.43	78.0	60.0	95.0	60.0						
	26.2	12667	1.0	53.39	78.0	60.0	95.0	60.0						
	31.3	10612	1.2	44.73	77.0	60.0	95.0	60.0						
	33.6	9872	1.3	41.61	76.0	60.0	95.0	60.0						
	39.0	8517	1.5	35.90	75.0	60.0	95.0	60.0						
	44.7	7431	1.7	31.32	73.0	60.0	95.0	60.0						
	52.3	6356	2.0	26.79	71.0	60.0	95.0	59.0						
	62.4	5324	2.4	22.44	69.0	60.0	95.0	57.0						
	69.4	4788	2.7	20.18	-	-	-	-						
	113.4	2930	2.9	12.35	60.0	60.0	95.0	50.0						
	29.2	10882	0.9	95.96	73.0	60.0	95.0	60.0				PKD 8390 200L2C / 200L2D	769	262-263
	33.8	9407	1.1	82.95	73.0	60.0	95.0	60.0						
	39.1	8115	1.2	71.56	73.0	60.0	95.0	60.0						
	44.9	7080	1.4	62.43	78.0	60.0	95.0	60.0						
	52.4	6055	1.6	53.39	78.0	60.0	95.0	60.0						
	62.6	5073	1.9	44.73	77.0	60.0	95.0	60.0						
	67.3	4719	2.1	41.61	76.0	60.0	95.0	60.0						
	78.0	4071	2.4	35.90	75.0	60.0	95.0	60.0						
	89.4	3552	2.8	31.32	73.0	60.0	95.0	60.0						
	34.1	9737	0.8	41.04	42.0	50.0	58.0	19.0	PKD 7390 225M4A / 225M4B	582	258-259			
	39.8	8342	1.0	35.16	43.0	50.0	61.0	20.0						
	47.7	6956	1.2	29.32	43.0	50.0	62.0	21.0						
	55.5	5986	1.4	25.23	43.0	50.0	63.0	21.0						
	62.3	5333	1.6	22.48	43.0	50.0	63.0	21.0						
	68.0	4885	1.7	20.59	42.0	50.0	63.0	21.0						
	76.2	4358	1.8	18.37	42.0	50.0	63.0	21.0						
	85.2	3900	1.9	16.44	41.0	50.0	62.0	21.0						
	90.4	3675	2.0	15.49	41.0	50.0	61.0	21.0						
	99.7	3331	1.6	14.04	40.0	50.0	59.0	20.0						
	111.9	2968	1.7	12.51	39.0	50.0	59.0	20.0						
	116.1	2861	1.7	12.06	39.0	50.0	58.0	20.0						
	122.2	2719	1.8	11.46	38.0	50.0	58.0	20.0						
137.0	2425	1.9	10.22	38.0	50.0	57.0	20.0							
153.0	2171	2.2	9.15	37.0	50.0	57.0	19.0							
40.0	7947	0.8	70.08	42.0	50.0	66.0	25.0	PKD 7390 200L2C / 200L2D				509	258-259	
47.9	6627	1.0	58.44	42.0	50.0	66.0	26.0							
55.7	5703	1.1	50.29	42.0	50.0	66.0	22.0							
62.5	5082	1.2	44.81	42.0	50.0	66.0	22.0							
68.2	4654	1.3	41.04	42.0	50.0	58.0	19.0							
79.6	3987	1.6	35.16	43.0	50.0	61.0	20.0							
95.5	3325	1.9	29.32	43.0	50.0	62.0	21.0							
111.0	2861	2.3	25.23	43.0	50.0	63.0	21.0							
124.6	2549	2.5	22.48	43.0	50.0	63.0	21.0							
136.0	2335	2.8	20.59	42.0	50.0	63.0	21.0							
152.4	2083	2.8	18.37	42.0	50.0	63.0	21.0							
199.4	1592	2.5	14.04	40.0	50.0	59.0	20.0							
223.8	1419	2.7	12.51	39.0	50.0	59.0	20.0							
232.2	1368	2.8	12.06	39.0	50.0	58.0	20.0							
244.3	1300	2.9	11.46	38.0	50.0	58.0	20.0							

P₁ [kW]	n₂ [Min ⁻¹]	M₂ [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{R GR} [kN]	F_{A GR} [kN]	Tip / Type / Typ IE2 / IE3	Kg	mm
37.0	35.6	9336	0.8	39.35	42.0	50.0	66.0	23.0	PKD 6390 225M4A / 225M4B	582	254-255
	41.5	7998	1.0	33.71	43.0	50.0	66.0	24.0			
	49.8	6669	1.2	28.11	43.0	50.0	66.0	24.0			
	57.9	5739	1.4	24.19	43.0	50.0	66.0	24.0			
	64.9	5115	1.6	21.56	43.0	50.0	66.0	24.0			
	70.9	4683	1.8	19.74	43.0	50.0	66.0	24.0			
	79.5	4180	1.8	17.62	42.0	50.0	66.0	24.0			
	88.8	3739	1.9	15.76	42.0	50.0	66.0	24.0			
	94.4	3518	2.0	14.83	41.0	50.0	66.0	24.0			
	105.3	3153	1.6	13.29	40.0	49.0	66.0	23.0			
	118.2	2809	1.7	11.84	39.0	48.0	66.0	23.0			
	122.6	2709	1.8	11.42	39.0	48.0	66.0	22.0			
	129.0	2574	1.9	10.85	39.0	47.0	66.0	22.0			
	144.6	2297	2.0	9.68	38.0	47.0	66.0	22.0			
	161.7	2055	2.2	8.66	37.0	46.0	65.0	22.0			
	41.7	7621	0.8	67.20	42.0	50.0	66.0	30.0	PKD 6390 200L2C / 200L2D	509	254-255
	50.0	6354	1.0	56.03	42.0	50.0	66.0	30.0			
	58.1	5469	1.1	48.23	42.0	50.0	66.0	26.0			
	65.2	4873	1.2	42.97	42.0	50.0	66.0	26.0			
	71.2	4462	1.3	39.35	42.0	50.0	66.0	23.0			
	83.1	3823	1.6	33.71	43.0	50.0	66.0	24.0			
	99.6	3188	2.0	28.11	43.0	50.0	66.0	24.0			
	115.8	2743	2.3	24.19	43.0	50.0	66.0	24.0			
	129.9	2445	2.5	21.56	43.0	50.0	66.0	24.0			
	141.8	2239	2.8	19.74	43.0	50.0	66.0	24.0			
	158.9	1998	2.9	17.62	42.0	50.0	66.0	24.0			
	210.7	1507	2.5	13.29	40.0	49.0	66.0	23.0			
	236.5	1343	2.7	11.84	39.0	48.0	66.0	23.0			
	245.2	1295	2.8	11.42	39.0	48.0	66.0	22.0			
	258.1	1230	3.0	10.85	39.0	47.0	66.0	22.0			
45.0	6.0	64511	0.8	233.51	220.0	100.0	-	-	PKD G 9390/62 225M4B / 225M4C	2038	282
	6.7	57726	0.9	208.95	220.0	100.0	-	-			
	7.5	47644	0.8	370.95	-	-	-	-	PKD G 9390/62 225M2B	2038	282
	8.7	41193	0.9	320.72	-	-	-	-			
	9.4	38168	1.0	297.17	-	-	-	-			
	10.4	34690	1.1	270.09	-	-	-	-			
	12.0	29992	1.3	233.51	-	-	-	-			
	13.4	26837	1.4	208.95	-	-	-	-			
	7.0	57874	0.9	200.57	220.0	100.0	-	-			
	8.1	50037	1.0	173.41	220.0	100.0	-	-			
	9.1	44520	1.1	154.29	220.0	100.0	-	-			
	10.5	38530	1.3	133.53	220.0	100.0	-	-			
	11.8	34100	1.5	118.18	220.0	100.0	-	-			
	13.7	29484	1.7	102.18	220.0	100.0	-	-			
	15.6	25854	1.9	89.60	220.0	100.0	-	-			
	17.2	23496	2.1	81.43	220.0	100.0	-	-			
	19.9	20317	2.5	70.41	220.0	100.0	-	-			
	21.5	18776	2.7	65.07	-	-	-	-			
	14.0	27663	1.4	200.57	220.0	100.0	-	-	PKD G 9390 225M2B	1907	274-275
	16.1	23917	1.6	173.41	220.0	100.0	-	-			
	18.1	21280	1.8	154.29	220.0	100.0	-	-			
	21.0	18417	2.1	133.53	220.0	100.0	-	-			
	23.7	16300	2.3	118.18	220.0	100.0	-	-			
	27.4	14093	2.7	102.18	220.0	100.0	-	-			
	11.6	34695	0.9	120.34	128.0	70.0	160.0	70.0	PKD 9390 225M4B / 225M4C	1662	270-271
	13.7	29538	1.1	102.37	125.0	70.0	160.0	70.0			
	15.3	26468	1.2	91.73	134.0	70.0	160.0	70.0			
	17.5	23081	1.4	79.99	139.0	70.0	160.0	70.0			
	20.3	19918	1.6	69.03	145.0	70.0	160.0	70.0			
	23.8	16941	1.9	58.71	149.0	70.0	160.0	70.0			
28.1	14355	2.2	49.75	152.0	70.0	160.0	70.0				
34.3	11764	2.7	40.77	154.0	70.0	160.0	70.0				
35.8	11294	2.8	39.14	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 / Typ IE2 / IE3					
45.0	23.3	16584	1.5	120.24	128.0	70.0	160.0	70.0	PKD 9390 225M2B	1662	270-271			
	27.4	14119	1.7	102.37	125.0	70.0	160.0	70.0						
	30.5	12652	1.9	91.73	134.0	70.0	160.0	70.0						
	35.0	11033	2.2	79.99	139.0	70.0	160.0	70.0						
	40.6	9521	2.6	69.03	145.0	70.0	160.0	70.0						
	47.7	8098	3.0	58.71	149.0	70.0	160.0	70.0						
	15.4	26151	0.8	90.63	90.0	65.0	120.0	65.0	PKD G 8390 225M4B / 225M4C	1092	266-267			
	17.9	22605	0.9	78.34	-	-	-	-						
	20.7	19500	1.0	67.58	98.0	65.0	120.0	65.0						
	23.7	17013	1.2	58.96	103.0	65.0	120.0	65.0						
	27.8	14549	1.4	50.42	102.0	65.0	120.0	65.0						
	33.1	12188	1.6	42.24	100.0	65.0	120.0	65.0						
	39.4	10252	1.8	35.53	97.0	65.0	120.0	65.0						
	47.3	8535	2.3	29.58	94.0	65.0	120.0	65.0						
	55.3	7300	2.7	25.30	92.0	65.0	120.0	65.0						
	30.9	12500	1.2	90.63	90.0	65.0	120.0	65.0				PKD G 8390 225M2B	1092	266-267
	35.7	10805	1.4	78.34	98.0	65.0	120.0	65.0						
	41.4	9321	1.6	67.58	98.0	65.0	120.0	65.0						
	47.5	8132	1.9	58.96	103.0	65.0	120.0	65.0						
	55.5	6954	2.2	50.42	102.0	65.0	120.0	65.0						
	66.3	5826	2.6	42.24	100.0	65.0	120.0	65.0						
	78.8	4900	2.8	35.53	97.0	65.0	120.0	65.0						
	26.2	15405	0.8	53.39	72.0	60.0	95.0	60.0	PKD 8390 225M4B / 225M4C	842	262-263			
	31.3	12907	1.0	44.73	72.0	60.0	95.0	60.0						
	33.6	12006	1.1	41.61	72.0	60.0	95.0	60.0						
	39.0	10359	1.3	35.90	71.0	60.0	95.0	59.0						
	44.7	9037	1.4	31.32	70.0	60.0	95.0	58.0						
	52.3	7730	1.7	26.79	69.0	60.0	95.0	57.0						
	62.4	6475	2.0	22.44	67.0	60.0	95.0	55.0						
	69.4	5823	2.2	20.18	66.0	60.0	95.0	54.0						
	80.8	5001	2.6	17.33	64.0	60.0	95.0	53.0						
	113.4	3564	2.4	12.35	59.0	60.0	95.0	49.0						
	33.8	11441	0.9	82.95	72.0	60.0	95.0	60.0				PKD 8390 225M2B	842	262-263
	39.1	9870	1.0	71.56	72.0	60.0	95.0	60.0						
	44.9	8611	1.1	62.43	72.0	60.0	95.0	60.0						
	52.4	7364	1.3	53.39	72.0	60.0	95.0	60.0						
	62.6	6169	1.6	44.73	72.0	60.0	95.0	60.0						
	67.3	5739	1.7	41.61	72.0	60.0	95.0	60.0						
	78.0	4951	2.0	35.90	71.0	60.0	95.0	59.0						
	89.4	4320	2.3	31.32	70.0	60.0	95.0	58.0						
	104.5	3695	2.7	26.79	69.0	60.0	95.0	57.0						
	39.8	10145	0.8	35.16	43.0	50.0	61.0	20.0	PKD 7390 225M4B / 225M4C	582	258-259			
	47.7	8460	1.0	29.32	39.0	50.0	55.0	18.0						
	55.5	7280	1.2	25.23	39.0	50.0	56.0	19.0						
	62.3	6487	1.3	22.48	40.0	50.0	57.0	19.0						
68.0	5941	1.4	20.59	40.0	50.0	57.0	19.0							
76.2	5301	1.5	18.37	39.0	50.0	58.0	20.0							
85.2	4744	1.6	16.44	39.0	50.0	58.0	20.0							
90.4	4470	1.7	15.49	39.0	50.0	57.0	19.0							
99.7	4051	1.3	14.04	37.0	50.0	55.0	19.0							
111.9	3610	1.4	12.51	37.0	50.0	55.0	19.0							
116.1	3480	1.4	12.06	37.0	50.0	55.0	19.0							
122.2	3307	1.5	11.46	37.0	49.0	55.0	19.0							
137.0	2949	1.6	10.22	36.0	49.0	54.0	19.0							
153.0	2640	1.8	9.15	36.0	48.0	54.0	18.0							



P₁ [kW]	n₂ [Min ⁻¹]	M₂ [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{R GR} [kN]	F_{A GR} [kN]	Tip / Type / Typ IE2 / IE3	 Kg	 mm			
45.0	47.9	8060	0.8	58.44	43.0	50.0	-	-	PKD 7390 225M2B	582	258-259			
	55.7	6936	0.9	50.29	43.0	50.0	66.0	22.0						
	62.5	6180	0.9	44.81	43.0	50.0	66.0	22.0						
	68.2	5660	1.0	41.04	43.0	50.0	58.0	19.0						
	79.6	4849	1.3	35.16	43.0	50.0	61.0	20.0						
	95.5	4044	1.6	29.32	39.0	50.0	55.0	18.0						
	111.0	3480	1.9	25.23	39.0	50.0	56.0	19.0						
	124.6	3101	2.1	22.48	40.0	50.0	57.0	19.0						
	136.0	2840	2.3	20.59	40.0	50.0	57.0	19.0						
	152.4	2534	2.3	18.37	39.0	50.0	58.0	20.0						
	170.3	2267	2.5	16.44	39.0	50.0	58.0	20.0						
	180.8	2136	2.7	15.49	39.0	50.0	57.0	19.0						
	199.4	1936	2.0	14.04	37.0	50.0	55.0	19.0						
	223.8	1725	2.2	12.51	37.0	50.0	55.0	19.0						
	232.2	1663	2.3	12.06	37.0	50.0	55.0	19.0						
	244.3	1581	2.4	11.46	37.0	49.0	55.0	19.0						
	274.0	1410	2.5	10.22	36.0	49.0	54.0	19.0						
	306.0	1262	2.8	9.15	36.0	48.0	54.0	18.0						
	41.5	9727	0.8	33.71	43.0	50.0	66.0	24.0				PKD 6390 225M4B / 225M4C	582	254-255
	49.8	8111	1.0	28.11	39.0	47.0	66.0	21.0						
	57.9	6980	1.2	24.19	40.0	48.0	66.0	22.0						
	64.9	6221	1.3	21.56	40.0	48.0	66.0	22.0						
	70.9	5696	1.4	19.74	40.0	48.0	66.0	22.0						
	79.5	5084	1.5	17.62	40.0	48.0	66.0	22.0						
	88.8	4547	1.6	15.76	40.0	48.0	66.0	22.0						
	94.4	4279	1.7	14.83	39.0	47.0	66.0	22.0						
	105.3	3835	1.3	13.29	38.0	46.0	66.0	21.0						
	118.2	3416	1.4	11.84	37.0	45.0	65.0	21.0						
	122.6	3295	1.5	11.42	37.0	45.0	65.0	21.0						
	129.0	3131	1.5	10.85	37.0	45.0	65.0	21.0						
	144.6	2793	1.6	9.68	36.0	44.0	64.0	21.0						
	161.7	2499	1.8	8.66	36.0	44.0	63.0	21.0						
	50.0	7728	0.8	56.03	43.0	50.0	-	-				PKD 6390 225M2B	582	254-255
58.1	6652	0.9	48.23	43.0	50.0	66.0	26.0							
65.2	5927	0.9	42.97	43.0	50.0	66.0	26.0							
71.2	5427	1.0	39.35	43.0	50.0	66.0	23.0							
83.1	4649	1.3	33.71	43.0	50.0	66.0	24.0							
99.6	3877	1.6	28.11	39.0	47.0	66.0	21.0							
115.8	3336	1.9	24.19	40.0	48.0	66.0	22.0							
129.9	2974	2.1	21.56	40.0	48.0	66.0	22.0							
141.8	2723	2.3	19.74	40.0	48.0	66.0	22.0							
158.9	2430	2.3	17.62	40.0	48.0	66.0	22.0							
177.7	2174	2.5	15.76	40.0	48.0	66.0	22.0							
188.8	2045	2.7	14.83	39.0	47.0	66.0	22.0							
210.7	1833	2.1	13.29	38.0	46.0	66.0	21.0							
236.5	1633	2.2	11.84	37.0	45.0	65.0	21.0							
245.2	1575	2.3	11.42	37.0	45.0	65.0	21.0							
258.1	1496	2.4	10.85	37.0	45.0	65.0	21.0							
289.3	1335	2.6	9.68	36.0	44.0	64.0	21.0							
323.3	1194	2.9	8.66	36.0	44.0	63.0	21.0							
55.0	9.1	54413	0.9	154.29	220.0	100.0	-	-	PKD G 9390 250M4A / 250M4B	2080	274-275			
	10.5	47092	1.1	133.53	220.0	100.0	-	-						
	11.8	41678	1.2	118.18	220.0	100.0	-	-						
	13.7	36036	1.4	102.18	220.0	100.0	-	-						
	15.6	31599	1.6	89.60	220.0	100.0	-	-						
	17.2	28718	1.7	81.43	220.0	100.0	-	-						
	19.9	24831	2.0	70.41	220.0	100.0	-	-						
	21.5	22948	2.2	65.07	-	-	-	-						
	24.9	19841	2.5	56.26	-	-	-	-						
	29.3	16854	3.0	47.79	210.9	100.0	-	-						
	18.1	26009	1.5	154.29	220.0	100.0	-	-				PKD G 9390 250M2A	2080	274-275
	21.0	22510	1.7	133.53	220.0	100.0	-	-						
	23.7	19922	1.9	118.18	220.0	100.0	-	-						
	27.4	17225	2.2	102.18	220.0	100.0	-	-						
	31.3	15104	2.5	89.60	220.0	100.0	-	-						
	34.4	13727	2.8	81.43	220.0	100.0	-	-						



P₁ [kW]	n₂ [Min ⁻¹]	M₂ [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{R GR} [kN]	F_{A GR} [kN]	Tip / Type / Typ IE2 / IE3	 Kg	 mm			
55.0	13.7	36103	0.9	102.37	104.0	70.0	160.0	70.0	PKD 9390 250M4A / 250M4B	1835	270-271			
	15.3	32350	1.0	91.73	119.0	70.0	160.0	70.0						
	17.5	28210	1.1	79.99	132.0	70.0	160.0	70.0						
	20.3	24345	1.3	69.03	137.0	70.0	160.0	70.0						
	23.8	20705	1.5	58.71	144.0	70.0	160.0	70.0						
	28.1	17545	1.8	49.75	149.0	70.0	160.0	70.0						
	34.3	14378	2.2	40.77	152.0	70.0	160.0	70.0						
	35.8	13803	2.3	39.14	152.0	70.0	160.0	70.0						
	41.0	12037	2.7	34.13	154.0	70.0	160.0	70.0						
	27.4	17257	1.4	102.37	104.0	70.0	160.0	70.0				PKD 9390 250M2A	1835	270-271
	30.5	15463	1.6	91.73	119.0	70.0	160.0	70.0						
	35.0	13484	1.8	79.99	132.0	70.0	160.0	70.0						
	40.6	11637	2.1	69.03	137.0	70.0	160.0	70.0						
	47.7	9897	2.5	58.71	144.0	70.0	160.0	70.0						
	56.3	8387	2.9	49.75	149.0	70.0	160.0	70.0						
	20.7	23833	0.8	67.58	83.0	65.0	120.0	65.0	PKD G 8390 250M4A / 250M4B	1265	266-267			
	23.7	20793	1.0	58.96	94.0	65.0	120.0	65.0						
	27.8	17782	1.1	50.42	95.0	65.0	120.0	65.0						
	33.1	14897	1.3	42.24	94.0	65.0	120.0	65.0						
	39.4	12530	1.4	35.53	92.0	65.0	120.0	65.0						
	47.3	10432	1.9	29.58	90.0	65.0	120.0	65.0						
	55.3	8922	2.2	25.30	88.0	65.0	120.0	65.0						
	66.1	7473	2.7	21.19	86.0	65.0	120.0	63.0						
	78.5	6288	3.0	17.83	82.0	65.0	120.0	61.0						
	94.9	5202	2.9	14.75	78.0	65.0	120.0	58.0						
	35.7	13206	1.2	78.34	83.0	65.0	-	-				PKD G 8390 250M2A	1265	266-267
	41.4	11392	1.3	67.58	83.0	65.0	120.0	65.0						
	47.5	9939	1.5	58.96	94.0	65.0	120.0	65.0						
	55.5	8499	1.8	50.42	95.0	65.0	120.0	65.0						
	66.3	7121	2.1	42.24	94.0	65.0	120.0	65.0						
	78.8	5989	2.3	35.53	92.0	65.0	120.0	65.0						
	94.7	4986	3.0	29.58	90.0	65.0	120.0	65.0						
	31.3	15775	0.8	44.73	66.0	60.0	95.0	55.0	PKD 8390 250M4A / 250M4B	1015	262-263			
	33.6	14675	0.9	41.61	66.0	60.0	95.0	55.0						
	39.0	12661	1.0	35.90	66.0	60.0	95.0	55.0						
	44.7	11046	1.2	31.32	66.0	60.0	95.0	55.0						
52.3	9448	1.4	26.79	65.0	60.0	95.0	54.0							
62.4	7914	1.6	22.44	64.0	60.0	95.0	53.0							
69.4	7117	1.8	20.18	63.0	60.0	95.0	52.0							
80.8	6112	2.1	17.33	61.0	60.0	95.0	51.0							
95.6	5163	2.5	14.64	60.0	60.0	95.0	49.0							
113.4	4355	1.9	12.35	57.0	60.0	95.0	47.0							
173.9	2839	2.5	8.05	52.0	60.0	95.0	43.0							
39.1	12063	0.8	71.56	73.0	60.0	95.0	60.0	PKD 8390 250M2A				1015	262-263	
44.9	10524	0.9	62.43	78.0	60.0	95.0	60.0							
52.4	9000	1.1	53.39	72.0	60.0	95.0	60.0							
62.6	7540	1.3	44.73	66.0	60.0	95.0	55.0							
67.3	7014	1.4	41.61	66.0	60.0	95.0	55.0							
78.0	6052	1.6	35.90	66.0	60.0	95.0	55.0							
89.4	5280	1.9	31.32	66.0	60.0	95.0	55.0							
104.5	4516	2.2	26.79	65.0	60.0	95.0	54.0							
124.8	3783	2.6	22.44	64.0	60.0	95.0	53.0							
138.8	3402	2.9	20.18	63.0	60.0	95.0	52.0							
75.0	10.5	64216	0.8	133.53	220.0	100.0	-		-	PKD G 9390 280M4B / 280M4C	2280			274-275
	11.8	56834	0.9	118.18	220.0	100.0	-		-					
	13.7	49139	1.0	102.18	220.0	100.0	-	-						
	15.6	43090	1.2	89.60	220.0	100.0	-	-						
	17.2	39161	1.3	81.43	220.0	100.0	-	-						
	19.9	33861	1.5	70.41	216.8	100.0	-	-						
	21.5	31293	1.6	65.07	214.5	100.0	-	-						
	24.9	27056	1.8	56.26	208.7	100.0	-	-						
	29.3	22983	2.2	47.79	202.7	100.0	-	-						
	33.9	19871	2.5	41.32	196.5	100.0	-	-						
	38.6	17428	2.9	36.24	191.5	100.0	-	-						

P_1 [kW]	n_2 [Min ⁻¹]	M_2 [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{RGR} [kN]	F_{AGR} [kN]	Tip / Type / Typ IE2 / IE3		
75.0	18.1	35467	1.1	154.29	220.0	100.0	-	-	PKD G 9390 280M2B / 280M2C	2280	274-275
	21.0	30695	1.2	133.53	220.0	100.0	-	-			
	23.7	27166	1.4	118.18	220.0	100.0	-	-			
	27.4	23488	1.6	102.18	220.0	100.0	-	-			
	31.3	20597	1.8	89.60	220.0	100.0	-	-			
	34.4	18719	2.0	81.43	220.0	100.0	-	-			
	39.8	16185	2.3	70.41	216.8	100.0	-	-			
	43.0	14958	2.5	65.07	214.5	100.0	-	-			
	49.8	12933	2.9	56.26	208.7	100.0	-	-			
	17.5	38468	0.8	79.99	104.0	70.0	160.0	70.0	PKD 9390 280M4B / 280M4C	2035	270-271
	20.3	33197	1.0	69.03	120.0	70.0	160.0	70.0			
	23.8	28234	1.1	58.71	130.0	70.0	160.0	70.0			
	28.1	23925	1.3	49.75	139.0	70.0	160.0	70.0			
	34.3	19607	1.6	40.77	146.0	70.0	160.0	70.0			
	35.8	18823	1.7	39.14	147.0	70.0	160.0	70.0			
	41.0	16413	1.9	34.13	150.0	70.0	160.0	70.0			
	47.7	14115	2.3	29.35	152.0	70.0	160.0	70.0			
	56.1	12004	2.7	24.96	154.0	70.0	160.0	70.0			
	81.0	8315	2.5	17.29	156.0	70.0	160.0	70.0			
	98.8	6815	2.8	14.17	157.0	70.0	160.0	70.0			
	30.5	21086	1.2	91.73	119.0	70.0	160.0	70.0	PKD 9390 280M2B / 280M2C	2035	270-271
	35.0	18388	1.3	79.99	104.0	70.0	160.0	70.0			
	40.6	15868	1.5	69.03	120.0	70.0	160.0	70.0			
	47.7	13496	1.8	58.71	130.0	70.0	160.0	70.0			
	56.3	11436	2.1	49.75	139.0	70.0	160.0	70.0			
	68.7	9372	2.6	40.77	146.0	70.0	160.0	70.0			
	71.5	8997	2.7	39.14	147.0	70.0	160.0	70.0			
	27.8	24248	0.8	50.42	82.0	65.0	120.0	61.0	PKD G 8390 280M4B / 280M4C	1465	266-267
	33.1	20314	1.0	42.24	84.0	65.0	120.0	62.0			
	39.4	17087	1.1	35.53	82.0	65.0	120.0	61.0			
	47.3	14225	1.4	29.58	83.0	65.0	120.0	62.0			
	55.3	12167	1.6	25.30	82.0	65.0	120.0	61.0			
	66.1	10190	2.0	21.19	80.0	65.0	120.0	59.0			
	78.5	8575	2.2	17.83	78.0	65.0	120.0	58.0			
	85.5	7873	2.4	16.37	77.0	65.0	120.0	57.0			
	94.9	7093	2.1	14.75	75.0	65.0	120.0	55.0			
	113.3	5944	2.4	12.36	72.0	65.0	120.0	54.0			
	120.4	5593	3.0	11.63	72.0	65.0	120.0	54.0			
	146.8	4588	2.8	9.54	69.0	65.0	120.0	51.0			
	35.7	18008	0.8	78.34	82.0	65.0	-	-			
	41.4	15535	1.0	67.58	82.0	65.0	120.0	65.0			
	47.5	13553	1.1	58.96	82.0	65.0	120.0	65.0			
	55.5	11590	1.3	50.42	82.0	65.0	120.0	61.0			
	66.3	9710	1.6	42.24	84.0	65.0	120.0	62.0			
	78.8	8167	1.7	35.53	82.0	65.0	120.0	61.0			
	94.7	6800	2.2	29.58	83.0	65.0	120.0	62.0			
	110.7	5816	2.6	25.30	82.0	65.0	120.0	61.0			
	39.0	17265	0.8	35.90	66.0	60.0	95.0	55.0	PKD 8390 280M4B / 280M4C	1215	262-263
44.7	15062	0.9	31.32	57.0	60.0	95.0	48.0				
52.3	12884	1.0	26.79	58.0	60.0	95.0	48.0				
62.4	10792	1.2	22.44	58.0	60.0	95.0	48.0				
69.4	9705	1.3	20.18	57.0	60.0	95.0	48.0				
80.8	8334	1.6	17.33	57.0	60.0	95.0	47.0				
95.6	7041	1.8	14.64	56.0	60.0	95.0	46.0				
113.4	5939	1.4	12.35	53.0	60.0	95.0	44.0				
173.9	3871	1.9	8.05	50.0	60.0	95.0	41.0				
52.4	12273	0.8	53.39	66.0	60.0	95.0	60.0	PKD 8390 280M2B / 280M2C	1215	262-263	
62.6	10282	1.0	44.73	66.0	60.0	95.0	55.0				
78.0	8252	1.2	35.90	66.0	60.0	95.0	55.0				
89.4	7200	1.4	31.32	57.0	60.0	95.0	48.0				
104.5	6158	1.6	26.79	58.0	60.0	95.0	48.0				
124.8	5158	1.9	22.44	58.0	60.0	95.0	48.0				
138.8	4639	2.1	20.18	57.0	60.0	95.0	48.0				
161.6	3984	2.5	17.33	57.0	60.0	95.0	47.0				
191.3	3365	2.9	14.64	56.0	60.0	95.0	46.0				
226.7	2839	2.2	12.35	53.0	60.0	95.0	44.0				
347.8	1850	3.0	8.05	50.0	60.0	95.0	41.0				



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 / Typ IE2 / IE3						
90.0	13.7	58967	0.8	102.18	213.2	100.0	-	-	PKD G 9390 280M4C / 280M4D	2280	274-275				
	15.6	51708	1.0	89.60	212.6	100.0	-	-							
	17.2	46993	1.1	81.43	211.3	100.0	-	-							
	19.9	40633	1.2	70.41	207.5	100.0	-	-							
	21.5	37551	1.3	65.07	206.2	100.0	-	-							
	24.9	32467	1.5	56.26	201.3	100.0	-	-							
	29.3	27579	1.8	47.79	196.8	100.0	-	-							
	33.9	23845	2.1	41.32	191.4	100.0	-	-							
	38.6	20914	2.4	36.24	187.0	100.0	-	-							
	42.5	19004	2.6	32.93	183.3	100.0	-	-							
49.2	16430	3.0	28.47	178.0	100.0	-	-								
	18.1	42561	0.9	154.29	213.2	100.0	-	-	PKD G 9390 280M2C / 280M2D	2280	274-275				
	21.0	36834	1.0	133.53	213.2	100.0	-	-							
	23.7	32600	1.2	118.18	213.2	100.0	-	-							
	27.4	28186	1.3	102.18	213.2	100.0	-	-							
	31.3	24716	1.5	89.60	212.6	100.0	-	-							
	34.4	22462	1.7	81.43	211.3	100.0	-	-							
	39.8	19422	2.0	70.41	207.5	100.0	-	-							
	43.0	17949	2.1	65.07	206.2	100.0	-	-							
	49.8	15519	2.4	56.26	201.3	100.0	-	-							
	58.6	13183	2.9	47.79	196.8	100.0	-	-							
	20.3	39837	0.8	69.03	98.0	70.0	160.0	70.0	PKD 9390 280M4C / 280M4D	2035	270-271				
	23.8	33881	0.9	58.71	115.0	70.0	160.0	70.0							
	28.1	28710	1.1	49.75	130.0	70.0	160.0	70.0							
	34.3	23528	1.4	40.77	140.0	70.0	160.0	70.0							
	35.8	22587	1.4	39.14	141.0	70.0	160.0	70.0							
	41.0	19696	1.6	34.13	145.0	70.0	160.0	70.0							
	47.7	16938	1.9	29.35	149.0	70.0	160.0	70.0							
	56.1	14404	2.2	24.96	152.0	70.0	160.0	70.0							
	68.6	11778	2.7	20.41	154.0	70.0	160.0	70.0							
	81.0	9978	2.1	17.29	155.0	70.0	160.0	70.0							
	98.8	8177	2.4	14.17	157.0	70.0	160.0	70.0							
	121.1	6671	2.8	11.56	-	-	160.0	70.0							
	130.7	6181	2.9	10.71	-	-	160.0	70.0							
		30.5	25304	1.0	91.73	98.0	70.0	160.0				70.0	PKD 9390 280M2C / 280M2D	2035	270-271
35.0		22065	1.1	79.99	98.0	70.0	160.0	70.0							
40.6		19042	1.3	69.03	98.0	70.0	160.0	70.0							
47.7		16195	1.5	58.71	115.0	70.0	160.0	70.0							
56.3		13723	1.8	49.75	130.0	70.0	160.0	70.0							
68.7		11246	2.2	40.77	140.0	70.0	160.0	70.0							
71.5		10797	2.3	39.14	141.0	70.0	160.0	70.0							
82.0		9415	2.6	34.13	145.0	70.0	160.0	70.0							
95.4		8096	3.0	29.35	149.0	70.0	160.0	70.0							
		33.1	24376	0.8	42.24	75.0	65.0	120.0	56.0	PKD G 8390 280M4C / 280M4D	1465	266-267			
	39.4	20504	0.9	35.53	76.0	65.0	120.0	56.0							
	47.3	17070	1.2	29.58	77.0	65.0	120.0	57.0							
	55.3	14600	1.4	25.30	77.0	65.0	120.0	57.0							
	66.1	12229	1.6	21.19	76.0	65.0	120.0	56.0							
	78.5	10290	1.8	17.83	74.0	65.0	120.0	55.0							
	85.5	9447	2.0	16.37	74.0	65.0	120.0	55.0							
	94.9	8512	1.8	14.75	71.0	65.0	120.0	53.0							
	113.3	7133	2.0	12.36	70.0	65.0	120.0	52.0							
	120.4	6712	2.5	11.63	70.0	65.0	120.0	52.0							
	146.8	5505	2.4	9.54	67.0	65.0	120.0	50.0							
	173.7	4651	2.6	8.06	65.0	65.0	120.0	48.0							
		41.4	18642	0.8	67.58	75.0	65.0	120.0	65.0				PKD 8390 280M2C / 280M2D	1465	262-263
		47.5	16264	0.9	58.96	75.0	65.0	120.0	65.0						
55.5		13908	1.1	50.42	75.0	65.0	120.0	61.0							
66.3		11652	1.3	42.24	75.0	65.0	120.0	56.0							
78.8		9801	1.4	35.53	76.0	65.0	120.0	56.0							
94.7		8160	1.9	29.58	77.0	65.0	120.0	57.0							
110.7		6979	2.2	25.30	77.0	65.0	120.0	57.0							
132.1		5845	2.6	21.19	76.0	65.0	120.0	56.0							
157.0		4918	2.9	17.83	74.0	65.0	120.0	55.0							
189.8		4069	2.8	14.75	71.0	65.0	120.0	53.0							

P₁ [kW]	n₂ [Min ⁻¹]	M₂ [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{R GR} [kN]	F_{A GR} [kN]	Tip / Type / Typ IE2 / IE3	Kg	mm			
90.0	52.3	15460	0.8	26.79	52.0	60.0	95.0	44.0	PKD 8390 280M4C / 280M4D	1215	262-263			
	62.4	12950	1.0	22.44	53.0	60.0	95.0	44.0						
	69.4	11646	1.1	20.18	53.0	60.0	95.0	45.0						
	80.8	10001	1.3	17.33	53.0	60.0	95.0	44.0						
	95.6	8449	1.5	14.64	53.0	60.0	95.0	44.0						
	113.4	7127	1.2	12.35	50.0	60.0	95.0	42.0						
	173.9	4646	1.5	8.05	48.0	60.0	94.0	40.0						
	62.6	12339	0.8	44.73	52.0	60.0	95.0	55.0				PKD 8390 280M2C / 280M2D	1215	262-263
	78.0	9903	1.0	35.90	52.0	60.0	95.0	55.0						
	89.4	8640	1.1	31.32	52.0	60.0	95.0	48.0						
	104.5	7390	1.3	26.79	52.0	60.0	95.0	44.0						
	124.8	6190	1.6	22.44	53.0	60.0	95.0	44.0						
	138.8	5567	1.8	20.18	53.0	60.0	95.0	45.0						
	161.6	4780	2.1	17.33	53.0	60.0	95.0	44.0						
	191.3	4038	2.4	14.64	53.0	60.0	95.0	44.0						
	226.7	3407	1.9	12.35	50.0	60.0	95.0	42.0						
	347.8	2221	2.5	8.05	48.0	60.0	94.0	40.0						
	110	15.6	63198	0.8	89.60	196.8	100.0	-	-	PKD G 9390 315S4C	2645	274-275		
		17.2	57435	0.9	81.43	197.2	100.0	-	-					
		19.9	49663	1.0	70.41	195.2	100.0	-	-					
21.5		45896	1.1	65.07	194.8	100.0	-	-						
24.9		39682	1.3	56.26	191.5	100.0	-	-						
29.3		33708	1.5	47.79	188.4	100.0	-	-						
33.9		29144	1.7	41.32	184.1	100.0	-	-						
38.6		25561	2.0	36.24	180.8	100.0	-	-						
42.5		23227	2.2	32.93	177.7	100.0	-	-						
49.2		20081	2.5	28.47	172.5	100.0	-	-						
53.2		18557	2.7	26.31	170.7	100.0	-	-						
27.4		34450	1.1	102.18	196.8	100.0	-	-	PKD G 9390 315S2C	2645	274-275			
31.3		30208	1.3	89.60	196.8	100.0	-	-						
34.4		27454	1.4	81.43	197.2	100.0	-	-						
39.8		23739	1.6	70.41	195.2	100.0	-	-						
43.0		21938	1.7	65.07	194.8	100.0	-	-						
49.8		18968	2.0	56.26	191.5	100.0	-	-						
58.6		16112	2.4	47.79	188.4	100.0	-	-						
67.8		13931	2.7	41.32	184.1	100.0	-	-						
23.8		41410	0.8	58.71	85.0	70.0	160.0	70.0	PKD 9390 315S4C	2400	270-271			
28.1		35090	0.9	49.75	113.0	70.0	160.0	70.0						
34.3		28757	1.1	40.77	130.0	70.0	160.0	70.0						
41.0		24073	1.3	34.13	139.0	70.0	160.0	70.0						
47.7		20702	1.5	29.35	144.0	70.0	160.0	70.0						
56.1		17605	1.8	24.96	149.0	70.0	160.0	70.0						
68.6		14396	2.2	20.41	152.0	70.0	160.0	70.0						
81.0		12195	1.7	17.29	154.0	70.0	160.0	70.0						
98.8		9995	1.9	14.17	155.0	70.0	160.0	70.0						
121.1		8154	2.3	11.56	157.0	70.0	160.0	70.0						
130.7		7554	2.4	10.71	157.0	70.0	160.0	70.0						
35.0	26968	0.9	79.99	85.0	70.0	160.0	70.0	PKD 9390 315S2C	2400	270-271				
40.6	23273	1.0	69.03	85.0	70.0	160.0	70.0							
47.7	19794	1.2	58.71	85.0	70.0	160.0	70.0							
56.3	16773	1.4	49.75	113.0	70.0	160.0	70.0							
68.7	13746	1.8	40.77	130.0	70.0	160.0	70.0							
82.0	11507	2.1	34.13	139.0	70.0	160.0	70.0							
95.4	9895	2.5	29.35	144.0	70.0	160.0	70.0							
112.2	8415	2.9	24.96	149.0	70.0	160.0	70.0							
161.9	5829	2.7	17.29	154.0	70.0	160.0	70.0							

P₁ [kW]	n₂ [Min ⁻¹]	M₂ [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{R GR} [kN]	F_{A GR} [kN]	Tip / Type / Typ IE2 / IE3	 Kg	 mm			
110	47.3	20864	1.0	29.58	70.0	65.0	120.0	52.0	PKD G 8390 315S4C	1830	266-267			
	55.3	17845	1.1	25.30	71.0	65.0	120.0	53.0						
	66.1	14946	1.3	21.19	71.0	65.0	120.0	53.0						
	78.5	12576	1.5	17.83	70.0	65.0	120.0	52.0						
	85.5	11546	1.6	16.37	70.0	65.0	120.0	52.0						
	94.9	10404	1.4	14.75	67.0	65.0	120.0	50.0						
	113.3	8718	1.6	12.36	66.0	65.0	120.0	49.0						
	120.4	8203	2.1	11.63	67.0	65.0	120.0	50.0						
	146.8	6729	1.9	9.54	64.0	65.0	120.0	48.0						
	173.7	5685	2.1	8.06	63.0	65.0	118.0	46.0						
	47.5	19878	0.8	58.96	70.0	65.0	120.0	65.0				PKD G 8390 315S2C	1830	266-267
	55.5	16999	0.9	50.42	70.0	65.0	120.0	61.0						
	66.3	14241	1.1	42.24	70.0	65.0	120.0	56.0						
	78.8	11979	1.1	35.53	70.0	65.0	120.0	56.0						
	94.7	9973	1.5	29.58	70.0	65.0	120.0	52.0						
	110.7	8530	1.8	25.30	71.0	65.0	120.0	53.0						
	132.1	7144	2.1	21.19	71.0	65.0	120.0	53.0						
	157.0	6011	2.4	17.83	70.0	65.0	120.0	52.0						
	171.0	5519	2.6	16.37	70.0	65.0	120.0	52.0						
	189.8	4973	2.3	14.75	67.0	65.0	120.0	50.0						
	226.5	4167	2.6	12.36	66.0	65.0	120.0	49.0						
	62.4	15828	0.8	22.44	-	-	95.0	44.0	PKD 8390 315S4C	1580	262-263			
	80.8	12223	1.1	17.33	-	-	95.0	44.0						
	95.6	10326	1.3	14.64	-	-	95.0	44.0						
	113.4	8711	1.0	12.35	-	-	95.0	42.0						
	173.9	5678	1.3	8.05	-	-	94.0	40.0						
	89.4	10559	0.9	31.32	52.0	60.0	95.0	48.0	PKD 8390 315S2C	1580	262-263			
	104.5	9032	1.1	26.79	52.0	60.0	95.0	44.0						
	124.8	7566	1.3	22.44	52.0	60.0	95.0	44.0						
	161.6	5843	1.7	17.33	52.0	60.0	95.0	44.0						
	191.3	4936	2.0	14.64	52.0	60.0	95.0	44.0						
	226.7	4164	1.5	12.35	52.0	60.0	95.0	42.0						
	347.8	2714	2.0	8.05	52.0	60.0	94.0	40.0						
	132	19.9	59595	0.8	70.41	180.9	100.0	-	-	PKD G 9390 315M4C / 315M4B	2645	274-275		
		21.5	55075	0.9	65.07	182.1	100.0	-	-					
24.9		47619	1.1	56.26	181.2	100.0	-	-						
29.3		40450	1.2	47.79	179.5	100.0	-	-						
33.9		34973	1.4	41.32	176.5	100.0	-	-						
38.6		30674	1.6	36.24	174.4	100.0	-	-						
42.5		27872	1.8	32.93	171.9	100.0	-	-						
49.2		24097	2.1	28.47	167.3	100.0	-	-						
53.2		22269	2.2	26.31	165.3	100.0	-	-						
61.5		19256	2.6	22.75	160.7	100.0	-	-						
72.1		16429	3.0	19.41	156.1	100.0	-	-						
27.4		41340	0.9	102.18	180.9	100.0	-	-	PKD 9390 315M2C / 315M2B				2645	270-271
31.3		36250	1.0	89.60	180.9	100.0	-	-						
34.4		32945	1.2	81.43	180.9	100.0	-	-						
39.8		28486	1.3	70.41	180.9	100.0	-	-						
43.0		26326	1.4	65.07	182.1	100.0	-	-						
49.8		22762	1.7	56.26	181.2	100.0	-	-						
58.6		19335	2.0	47.79	179.5	100.0	-	-						
67.8		16717	2.3	41.32	176.5	100.0	-	-						
77.3		14662	2.6	36.24	174.4	100.0	-	-						
85.0		13323	2.9	32.93	171.9	100.0	-	-						
28.1		42109	0.8	49.75	85.0	70.0	160.0	70.0		PKD 9390 315M4C / 315M4B	2400	270-271		
34.3		34508	0.9	40.77	116.0	70.0	160.0	70.0						
41.0		28888	1.1	34.13	-	-	-	-						
47.7		24842	1.3	29.35	138.0	70.0	160.0	70.0						
56.1		21126	1.5	24.96	144.0	70.0	160.0	70.0						
68.6		17275	1.9	20.41	149.0	70.0	160.0	70.0						
81.0		14634	1.4	17.29	152.0	70.0	160.0	70.0						
98.8		11994	1.6	14.17	154.0	70.0	160.0	70.0						
121.1		9784	1.9	11.56	156.0	70.0	160.0	69.0						
130.7		9065	2.0	10.71	156.0	70.0	160.0	68.0						

P₁ [kW]	n₂ [Min ⁻¹]	M₂ [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{R GR} [kN]	F_{A GR} [kN]	Tip / Type / Typ IE2 / IE3	 Kg	 mm			
132	35.0	32362	0.8	79.99	85.0	70.0	-	-	PKD 9390 315M2C / 315M2B	2400	270-271			
	40.6	27928	0.9	69.03	85.0	70.0	160.0	70.0						
	47.7	23753	1.0	58.71	85.0	70.0	160.0	70.0						
	56.3	20128	1.2	49.75	85.0	70.0	160.0	70.0						
	68.7	16495	1.5	40.77	116.0	70.0	160.0	70.0						
	82.0	13808	1.8	34.13	138.0	70.0	160.0	70.0						
	95.4	11874	2.0	29.35	138.0	70.0	160.0	70.0						
	112.2	10098	2.4	24.96	144.0	70.0	160.0	70.0						
	137.2	8257	2.9	20.41	149.0	70.0	160.0	70.0						
	161.9	6995	2.2	17.29	152.0	70.0	160.0	70.0						
	197.6	5733	2.6	14.17	154.0	70.0	160.0	69.0						
	242.2	4677	3.0	11.56	156.0	70.0	160.0	68.0						
	47.3	25037	0.8	29.58	-	-	120.0	52.0				PKD G 8390 315M4C / 315M4B	1830	266-267
	55.3	21414	0.9	25.30	64.0	65.0	120.0	47.0						
	66.1	17935	1.1	21.19	65.0	65.0	120.0	48.0						
	78.5	15091	1.3	17.83	65.0	65.0	120.0	48.0						
	85.5	13856	1.4	16.37	66.0	65.0	120.0	49.0						
	94.9	12484	1.2	14.75	63.0	65.0	120.0	47.0						
	113.3	10462	1.3	12.36	62.0	65.0	119.0	46.0						
	120.4	9844	1.7	11.63	64.0	65.0	120.0	47.0						
	146.8	8075	1.6	9.54	61.0	65.0	117.0	45.0						
	173.7	6822	1.8	8.06	60.0	65.0	114.0	45.0						
	66.3	17089	0.9	42.24	64.0	65.0	120.0	56.0	PKD G 8390 315M2C / 315M2B	1830	266-267			
	78.8	14375	1.0	35.53	64.0	65.0	120.0	56.0						
	94.7	11967	1.3	29.58	64.0	65.0	120.0	52.0						
	110.7	10236	1.5	25.30	64.0	65.0	120.0	47.0						
	132.1	8573	1.8	21.19	65.0	65.0	120.0	48.0						
	157.0	7214	2.0	17.83	65.0	65.0	120.0	48.0						
	171.0	6623	2.2	16.37	66.0	65.0	120.0	49.0						
	189.8	5968	1.9	14.75	63.0	65.0	120.0	47.0						
	226.5	5001	2.1	12.36	62.0	65.0	119.0	46.0						
	240.8	4705	2.7	11.63	64.0	65.0	120.0	47.0						
	293.5	3860	2.6	9.54	61.0	65.0	117.0	45.0						
	347.4	3261	2.8	8.06	60.0	65.0	114.0	45.0						
	80.8	14668	0.9	17.33	-	-	-	-	PKD 8390 315M4C / 315M4B	1580	262-263			
	95.6	12391	1.0	14.64	-	-	-	-						
	113.4	10453	0.8	12.35	-	-	-	-						
	173.9	6814	1.1	8.05	-	-	-	-						
	89.4	12671	0.8	31.32	52.0	60.0	-	-	PKD 8390 315M2C / 315M2B	1580	262-263			
	104.5	10839	0.9	26.79	52.0	60.0	95.0	44.0						
	124.8	9079	1.1	22.44	52.0	60.0	95.0	44.0						
	161.6	7011	1.4	17.33	52.0	60.0	95.0	44.0						
	191.3	5923	1.7	14.64	52.0	60.0	95.0	44.0						
	226.7	4997	1.3	12.35	52.0	60.0	95.0	42.0						
	347.8	3257	1.7	8.05	52.0	60.0	94.0	40.0						
	24.9	57720	0.9	56.26	166.4	100.0	-	-				PKD G 9390 315L4C / 315L4A	2645	274-275
	29.3	49030	1.0	47.79	168.0	100.0	-	-						
	33.9	42392	1.2	41.32	166.4	100.0	-	-						
38.6	37180	1.3	36.24	165.2	100.0	-	-							
42.5	33784	1.5	32.93	163.5	100.0	-	-							
49.2	29209	1.7	28.47	160.3	100.0	-	-							
53.2	26993	1.9	26.31	159.2	100.0	-	-							
61.5	23340	2.1	22.75	155.3	100.0	-	-							
72.1	19914	2.5	19.41	151.6	100.0	-	-							
83.4	17215	2.9	16.78	147.2	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 / Typ IE2 / IE3		
160	27.4	50109	0.8	102.18	166.4	100.0	-	-	PKD G 9390 315L2C / 315L2A	2645	274-275
	31.3	43940	0.9	89.60	166.4	100.0	-	-			
	34.4	39933	1.0	81.43	166.4	100.0	-	-			
	39.8	34529	1.1	70.41	166.4	100.0	-	-			
	43.0	31910	1.2	65.07	166.4	100.0	-	-			
	49.8	27590	1.4	56.26	166.4	100.0	-	-			
	58.6	23436	1.6	47.79	168.0	100.0	-	-			
	67.8	20263	1.9	41.32	166.4	100.0	-	-			
	77.3	17772	2.1	36.24	165.2	100.0	-	-			
	85.0	16149	2.4	32.93	163.5	100.0	-	-			
98.3	13962	2.7	28.47	160.3	100.0	-	-				
106.4	12902	2.9	26.31	159.2	100.0	-	-				
	34.3	41828	0.8	40.77	89.0	70.0	160.0	70.0	PKD 9390 315L4C / 315L4A	2400	270-271
	41.0	35015	0.9	34.13	-	-	-	-			
	47.7	30111	1.1	29.35	127.0	70.0	160.0	70.0			
	56.1	25608	1.2	24.96	136.0	70.0	160.0	70.0			
	68.6	20939	1.5	20.41	144.0	70.0	160.0	70.0			
	81.0	17739	1.2	17.29	148.0	70.0	160.0	70.0			
	98.8	14538	1.3	14.17	152.0	69.0	160.0	68.0			
	121.1	11860	1.6	11.56	154.0	67.0	160.0	67.0			
	130.7	10988	1.6	10.71	155.0	67.0	160.0	66.0			
		47.7	28791	0.8	58.71	89.0	70.0	160.0			
56.3		24397	1.0	49.75	89.0	70.0	160.0	70.0			
68.7		19993	1.2	40.77	89.0	70.0	160.0	70.0			
82.0		16737	1.5	34.13	127.0	70.0	160.0	70.0			
95.4		14393	1.7	29.35	127.0	70.0	160.0	70.0			
112.2		12240	2.0	24.96	136.0	70.0	160.0	70.0			
137.2		10009	2.4	20.41	144.0	70.0	160.0	70.0			
161.9		8479	1.8	17.29	148.0	70.0	160.0	70.0			
197.6		6949	2.1	14.17	152.0	69.0	160.0	68.0			
242.2		5669	2.5	11.56	154.0	67.0	160.0	67.0			
261.4	5252	2.6	10.71	155.0	67.0	160.0	66.0				
	55.3	25956	0.8	25.30	54.0	57.0	107.0	41.0	PKD G 8390 315L4C / 315L4A	1830	266-267
	66.1	21740	0.9	21.19	57.0	62.0	112.0	43.0			
	78.5	18293	1.0	17.83	58.0	63.0	113.0	43.0			
	85.5	16795	1.1	16.37	60.0	65.0	116.0	44.0			
	94.9	15133	1.0	14.75	57.0	62.0	110.0	42.0			
	113.3	12681	1.1	12.36	58.0	64.0	110.0	43.0			
	120.4	11932	1.4	11.63	60.0	65.0	114.0	44.0			
	146.8	9787	1.3	9.54	58.0	65.0	110.0	43.0			
	173.7	8269	1.5	8.06	57.0	65.0	108.0	42.0			
		78.8	17424	0.8	35.53	54.0	57.0	-			
94.7		14506	1.0	29.58	54.0	57.0	120.0	52.0			
110.7		12407	1.2	25.30	54.0	57.0	107.0	41.0			
132.1		10391	1.5	21.19	57.0	62.0	112.0	43.0			
157.0		8744	1.7	17.83	58.0	63.0	113.0	43.0			
171.0		8028	1.8	16.37	60.0	65.0	116.0	44.0			
189.8		7233	1.6	14.75	57.0	62.0	110.0	42.0			
226.5		6061	1.8	12.36	58.0	64.0	110.0	43.0			
240.8		5703	2.3	11.63	60.0	65.0	114.0	44.0			
293.5		4678	2.1	9.54	58.0	65.0	110.0	43.0			
347.4	3953	2.3	8.06	57.0	65.0	108.0	42.0				
	95.6	15020	0.9	14.64	-	-	-	-	PKD 8390 315L4C / 315L4A	1580	262-263
	173.9	8259	0.9	8.05	-	-	-	-			
	104.5	13138	0.8	26.79	52.0	60.0	-	-	PKD 8390 315L2C / 315L2A	1580	262-263
	124.8	11004	0.9	22.44	52.0	60.0	-	-			
	161.6	8499	1.2	17.33	52.0	60.0	-	-			
	191.3	7179	1.4	14.64	52.0	60.0	-	-			
	226.7	6056	1.1	12.35	52.0	60.0	-	-			
	347.8	3948	1.4	8.05	52.0	60.0	-	-			

P₁ [kW]	n₂ [Min ⁻¹]	M₂ [Nm]	f_B	i_{ges}	F_R [kN]	F_A [kN]	F_{R GR} [kN]	F_{A GR} [kN]	Tip / Type / Typ IE2 / IE3	 Kg	 mm
200	29.3	61287	0.8	47.79	-	-	-	-	PKD G 9390 315L4D / 315L4C	2645	274-275
	33.9	52990	0.9	41.32	-	-	-	-			
	38.6	46475	1.1	36.24	152.4	100.0	-	-			
	42.5	42230	1.2	32.93	152.1	100.0	-	-			
	49.2	36511	1.4	28.47	150.3	100.0	-	-			
	53.2	33741	1.5	26.31	150.5	100.0	-	-			
	61.5	29175	1.7	22.75	147.3	100.0	-	-			
	72.1	24892	2.0	19.41	145.3	100.0	-	-			
	83.4	21519	2.3	16.78	141.6	100.0	-	-			
									PKD G 9390 315L2D / 315L2C	2645	274-275
34.4	49916	0.8	81.43	152.4	100.0	-	-				
39.8	43161	0.9	70.41	152.4	100.0	-	-				
43.0	39888	1.0	65.07	152.4	100.0	-	-				
49.8	34487	1.1	56.26	152.4	100.0	-	-				
58.6	29295	1.3	47.79	152.4	100.0	-	-				
67.8	25329	1.5	41.32	152.4	100.0	-	-				
77.3	22215	1.7	36.24	152.4	100.0	-	-				
85.0	20186	1.9	32.93	152.1	100.0	-	-				
98.3	17452	2.2	28.47	150.3	100.0	-	-				
106.4	16128	2.4	26.31	150.5	100.0	-	-				
123.1	13949	2.7	22.75	147.3	100.0	-	-				
									PKD 9390 315L4D / 315L4C	2400	270-271
47.7	37639	0.9	29.35	-	-	160.0	70.0				
56.1	32009	1.0	24.96	-	-	160.0	70.0				
68.6	26174	1.2	20.41	-	-	160.0	70.0				
81.0	22173	0.9	17.29	-	-	160.0	70.0				
98.8	18172	1.1	14.17	-	-	160.0	68.0				
121.1	14825	1.2	11.56	-	-	160.0	67.0				
130.7	13735	1.3	10.71	-	-	160.0	66.0				
									PKD 9390 315L2D / 315L2C	2400	270-271
56.3	30497	0.8	49.75	89.0	70.0	160.0	70.0				
68.7	24992	1.0	40.77	89.0	70.0	160.0	70.0				
82.0	20922	1.2	34.13	89.0	70.0	160.0	70.0				
95.4	17991	1.4	29.35	89.0	70.0	160.0	70.0				
112.2	15300	1.6	24.96	89.0	70.0	160.0	70.0				
137.2	12511	1.9	20.41	89.0	70.0	160.0	70.0				
161.9	10599	1.5	17.29	89.0	70.0	160.0	70.0				
197.6	8686	1.7	14.17	89.0	70.0	160.0	68.0				
242.2	7086	2.0	11.56	89.0	70.0	160.0	67.0				
261.4	6565	2.1	10.71	89.0	70.0	160.0	66.0				
									PKD G 8390 315L4D / 315L4C	1830	266-267
78.5	22866	0.8	17.83	-	-	113.0	43.0				
85.5	20993	0.9	16.37	-	-	116.0	44.0				
94.9	18916	0.8	14.75	-	-	110.0	42.0				
113.3	15851	0.9	12.36	-	-	110.0	43.0				
120.4	14915	1.1	11.63	-	-	114.0	44.0				
146.8	12234	1.1	9.54	-	-	110.0	43.0				
173.7	10336	1.2	8.06	-	-	108.0	42.0				
									PKD G 8390 315L2D / 315L2C	1830	266-267
94.7	18132	0.8	29.58	54.0	57.0	-	-				
110.7	15509	1.0	25.30	54.0	57.0	107.0	41.0				
132.1	12989	1.2	21.19	54.0	57.0	112.0	43.0				
157.0	10930	1.3	17.83	54.0	57.0	113.0	43.0				
171.0	10035	1.4	16.37	54.0	57.0	116.0	44.0				
189.8	9042	1.3	14.75	54.0	57.0	110.0	42.0				
226.5	7577	1.4	12.36	54.0	57.0	110.0	43.0				
240.8	7129	1.8	11.63	54.0	57.0	114.0	44.0				
293.5	5848	1.7	9.54	54.0	57.0	110.0	43.0				
347.4	4941	1.8	8.06	54.0	57.0	108.0	42.0				
									PKD 8390 315L2D / 315L2C	1580	262-263
161.6	10623	0.9	17.33	52.0	60.0	-	-				
191.3	8974	1.1	14.64	52.0	60.0	-	-				
226.7	7570	0.8	12.35	52.0	60.0	-	-				
347.8	4935	1.1	8.05	52.0	60.0	-	-				

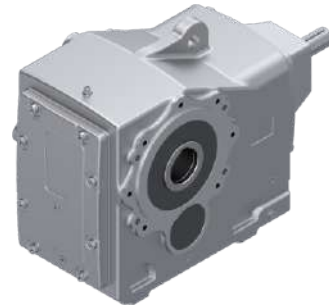
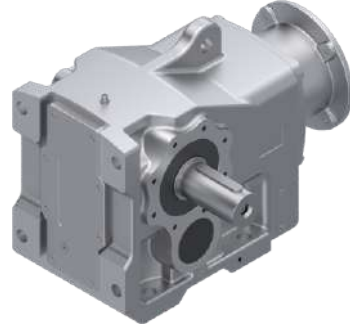


A series of horizontal dotted lines spanning the width of the page, intended for writing or drawing.

Ölçü Tabloları

Dimension Tables

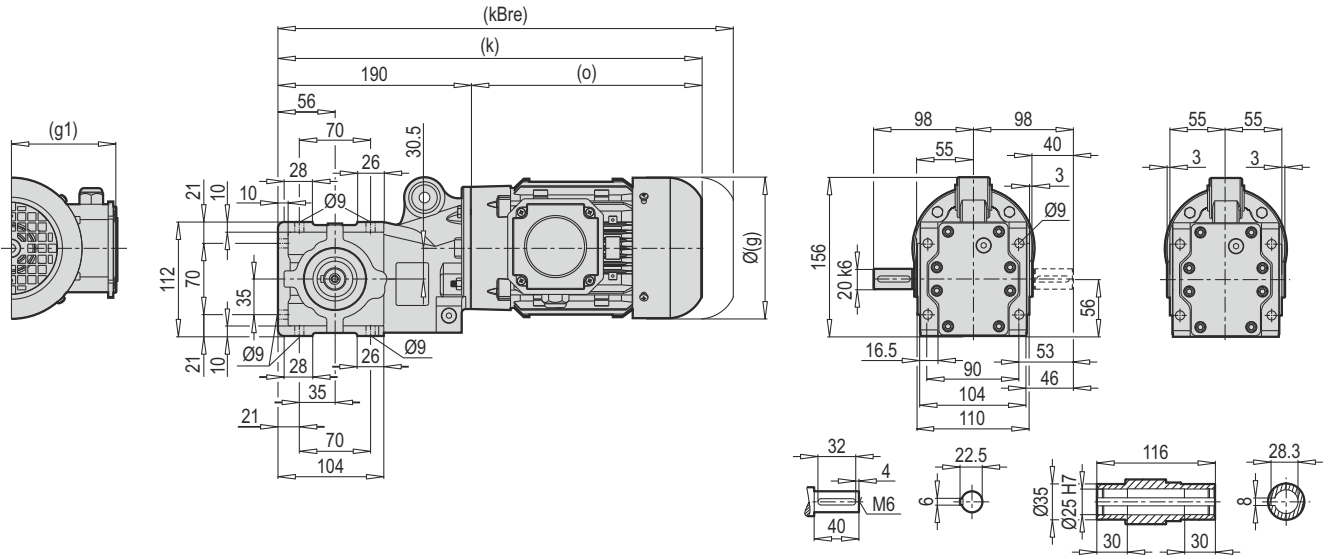
Maßtabellen



PKD

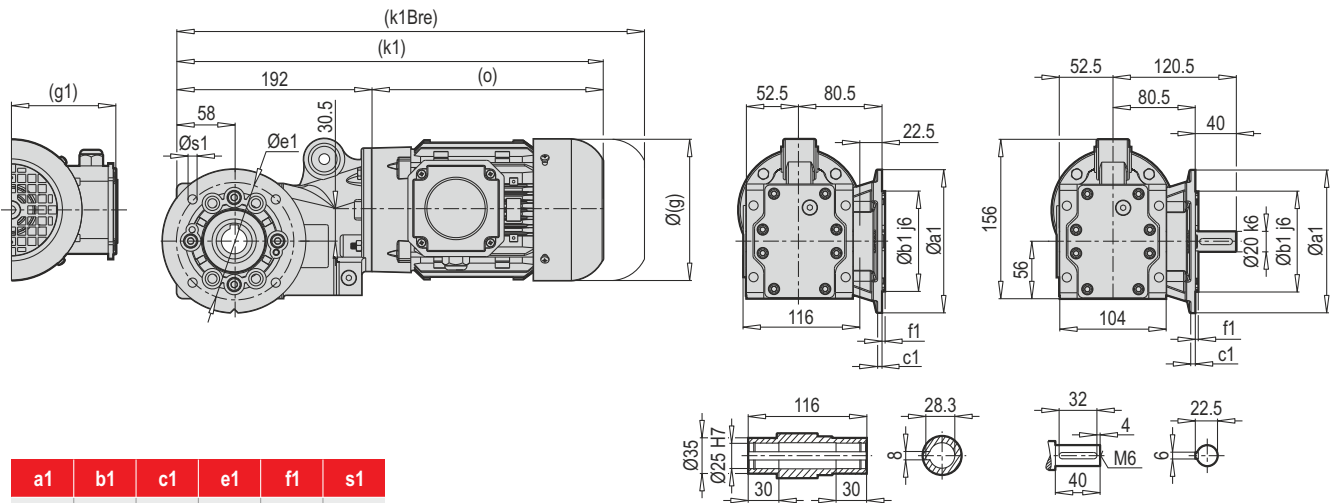
PKD A 0290 **TMA**

PKD A 0290 **DA**



PKD A 0290 **DG/B5**

PKD A 0290 **TMG/B5**

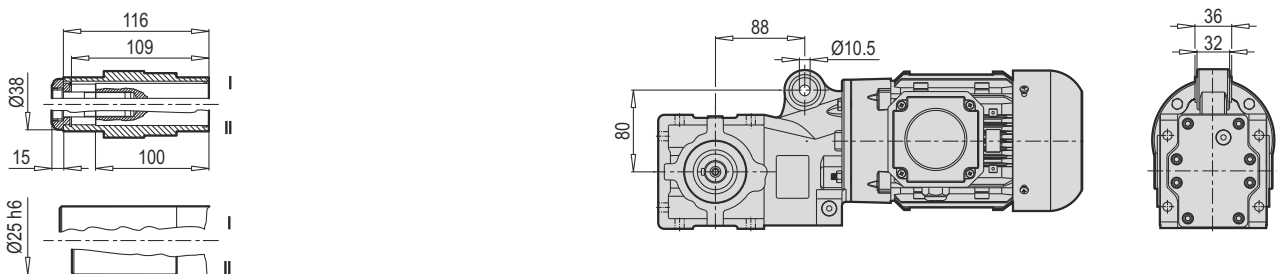


a1	b1	c1	e1	f1	s1
140	95	10	115	3	4x9

PKD A 0290 **DAÇ**

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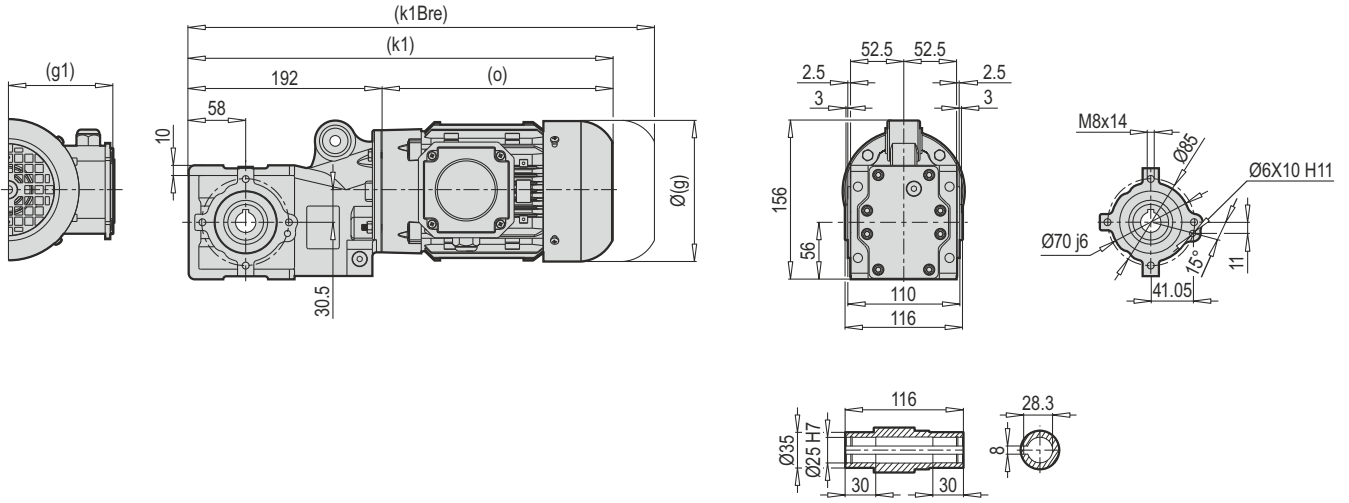
PKD A 0290 **LT**



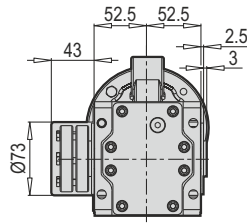
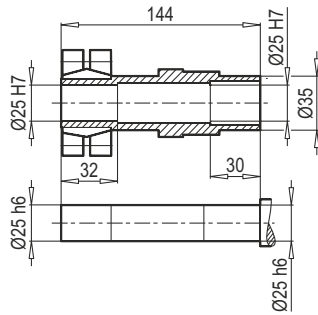
	63 M	71 M	80 M	90 S/L	100 L	112 M		
g	124	140	172	182	202	220		
g1	111	119	131	130	153	159		
k/k1	388/390	417/419	443/445	508/510	548/550	542/544		
kBre/k1Bre	440/442	477/479	513/515	576/578	631/633	642/644		
o	198	227	253	318	357.5	352		

Not: (...) İşaretili olan ölçüler motor markasına göre farklılık gösterir. / Note: The dimensions which have (...) sign vary depending on the motor. / Hinweis: (...) Die gekennzeichneten Maße unterscheiden sich je nach Motormarke.

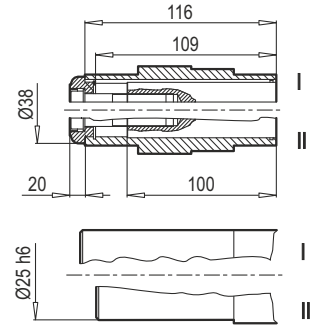
PKD A 0290 DG/B14



PKD A 0290 DG/KS



PKD A 0290 DG/Ç



66-67

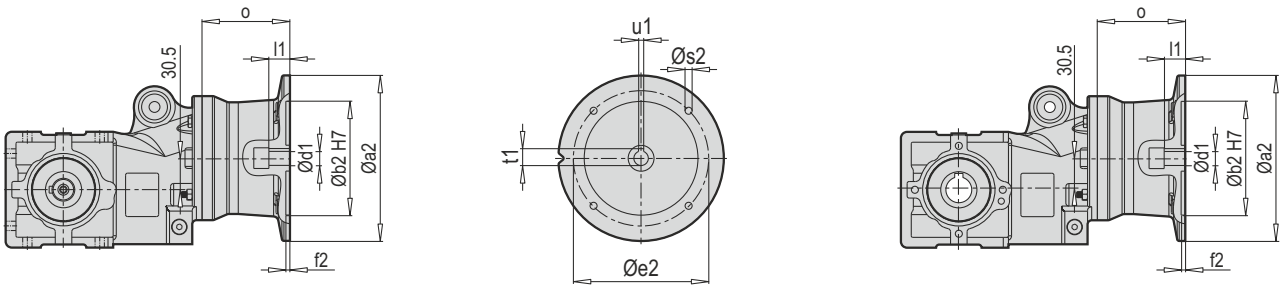
Konik sıkırtma / Shrink disc / Schrumpfscheibe				Altıköşe başlı civata / Hexagonal screw / Sechskantschraube DIN 931 / DIN 933* 10.9Vz		
Tip / Type / Typ	M _{amax} (Nm)	s _{h6}	s _{f6}	dxl	Zs	MA (Nm)
KS 25/34	90	4.19	3.28	M5x25	6	7

	63 M	71 M	80 M	90 S/L	100 L	112 M		
g	124	140	172	182	202	220		
g1	111	119	131	130	153	159		
k1	390	419	445	510	550	544		
k1Bre	442	479	515	578	633	644		
o	198	227	253	318	358	352		

Not: (...) İşaretili olan ölçüler motor markasına göre farklılık gösterir. / Note: The dimensions which have (...) sign vary depending on the motor. / Hinweis: (...) Die gekennzeichneten Maße unterscheiden sich je nach Motormarke.

PKD A 0290

IEC

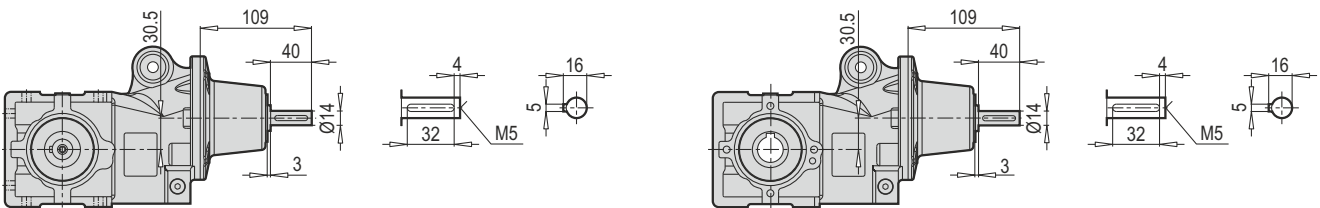


Tip / Type / Typ	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD A 0290	63	140	95	115	3.5	M8	11	23	12.8	4	85
	71	160	110	130	4.0	M8	14	30	16.3	5	89
	80	200	130	165	4.0	M10	19	40	21.8	6	103

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

PKD A 0290

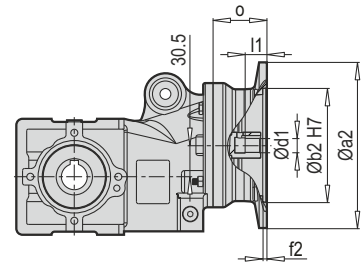
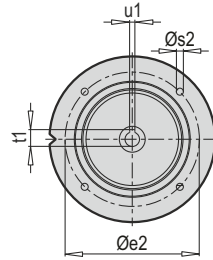
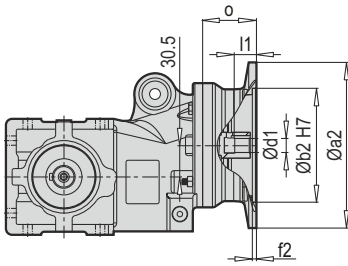
W



W ~ Kg	
PKD A 0290	6

PKD A 0290

PAM B5/B14



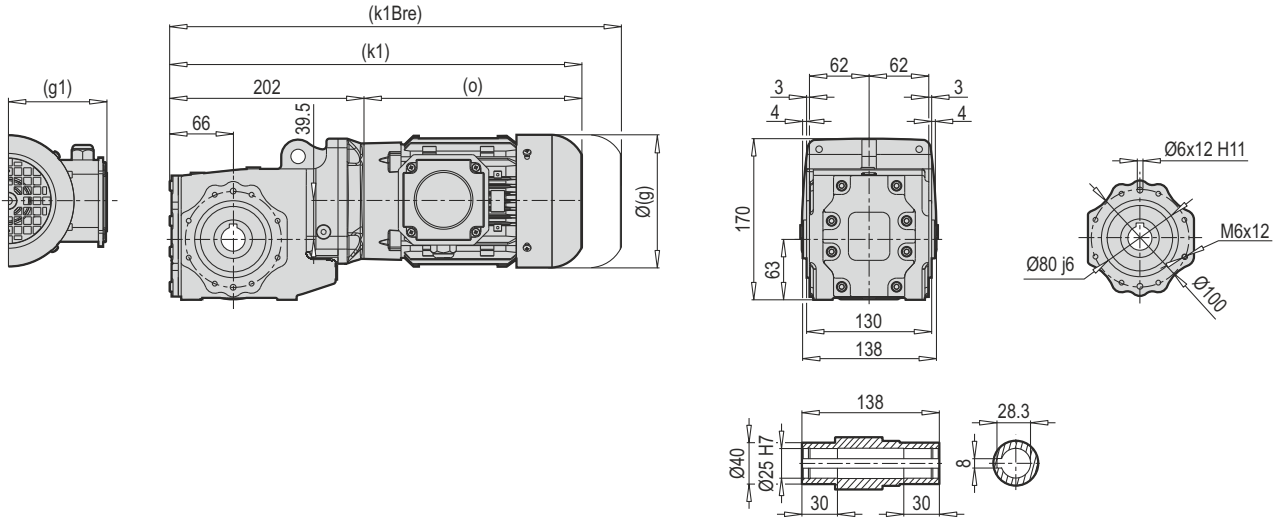
Tip / Type / Typ	PAM B5	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD A 0290	63	160	110	130	4.0	M8	14	30	16.3	5	85
	71	200	130	165	4.0	M10	19	40	21.8	6	89
	80	200	130	165	4.0	M10	24	50	27.3	8	103

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

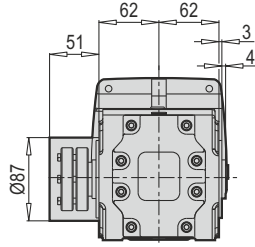
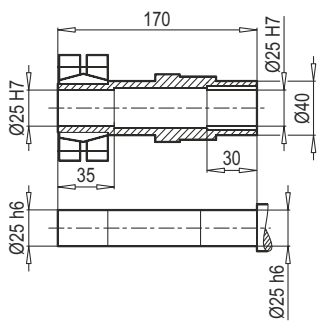
Tip / Type / Typ	PAM B14	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD A 0290	63	90	60	75	4.0	6	11	23	12.8	4	85
	71	105	70	85	4.0	7	14	30	16.3	5	89
	80	120	80	100	4.0	7	19	40	21.8	6	103

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

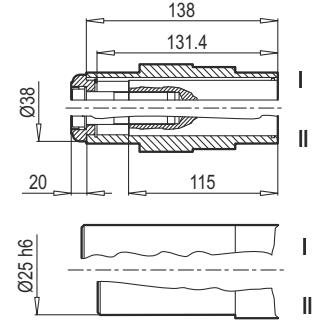
PKD B 0290 DG/B14



PKD B 0290 DG/KS



PKD B 0290 DG/Ç



66-67

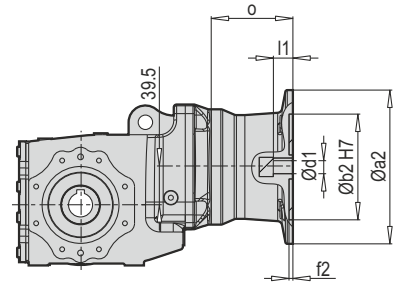
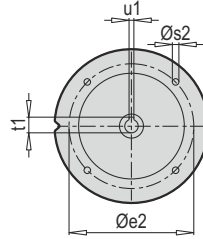
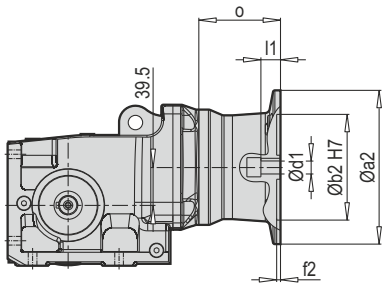
Konik sıkırtma / Shrink disc / Schrumpfscheibe				Altıköşe başlı civata / Hexagonal screw / Sechskantschraube DIN 931 / DIN 933* 10.9Vz		
Tip / Type / Typ	M _{amax} (Nm)	s ^{h6}	s ^{f6}	dxl	Zs	MA (Nm)
KS 25/35	120	4.23	3.43	M5x25	8	7

	63 M	71 M	80 M	90 S/L				
g	124	140	172	182				
g1	111	119	131	130				
k1	400	429	453	518				
k1Bre	452	489	523	586				
o	198	227	253	318				

Not: (...) İşaretili olan ölçüler motor markasına göre farklılık gösterir. / Note: The dimensions which have (...) sign vary depending on the motor. / Hinweis: (...) Die gekennzeichneten Maße unterscheiden sich je nach Motormarke.

PKD B 0290

IEC

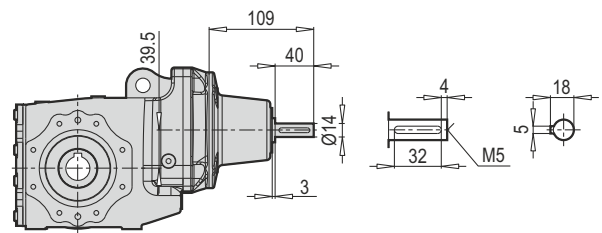
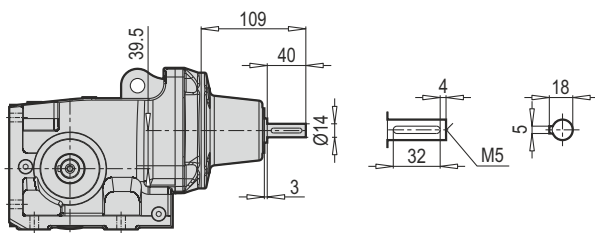


Tip / Type / Typ	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD B 0290	63	140	95	115	3.5	M8	11	23	12.8	4	85
	71	160	110	130	4.0	M8	14	30	16.3	5	85
	80	200	130	165	4.0	M10	19	40	21.8	6	103
	90	200	130	165	4.0	M10	24	50	27.3	8	103

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

PKD B 0290

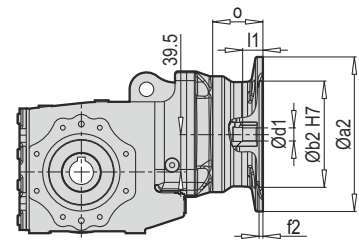
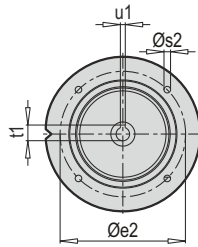
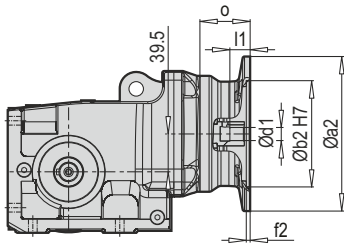
W



W ~ Kg	
PKD B 0290	11

PKD B 0290

PAM B5/B14



Tip / Type / Typ	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

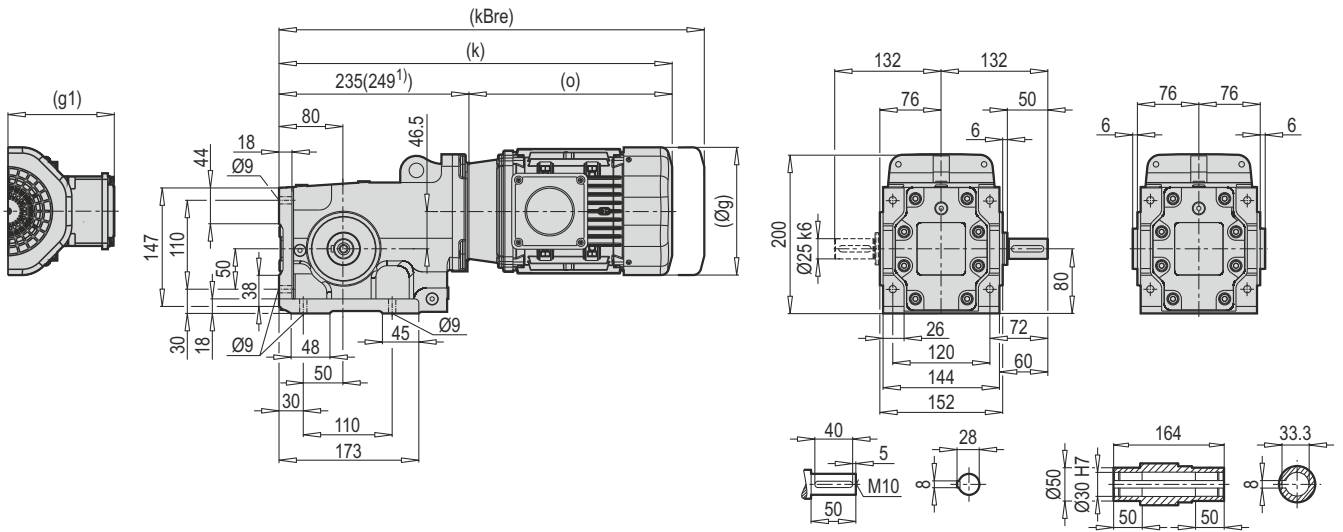
~ Kg	
PAM B5	PKD B 0290
63	12
71	13
80	15
90	15

Tip / Type / Typ	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

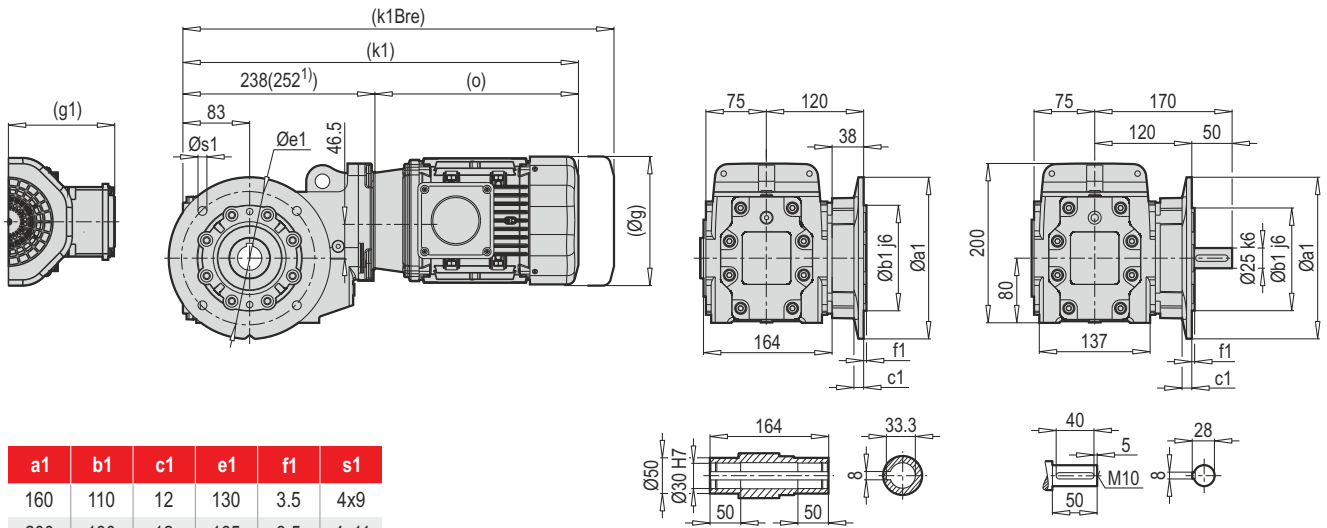
PKD C 1290 TMA

PKD C 1290 DA



PKD C 1290 DG/B5

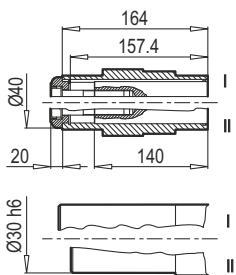
PKD C 1290 TMG/B5



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

PKD C 1290 DA/Ç

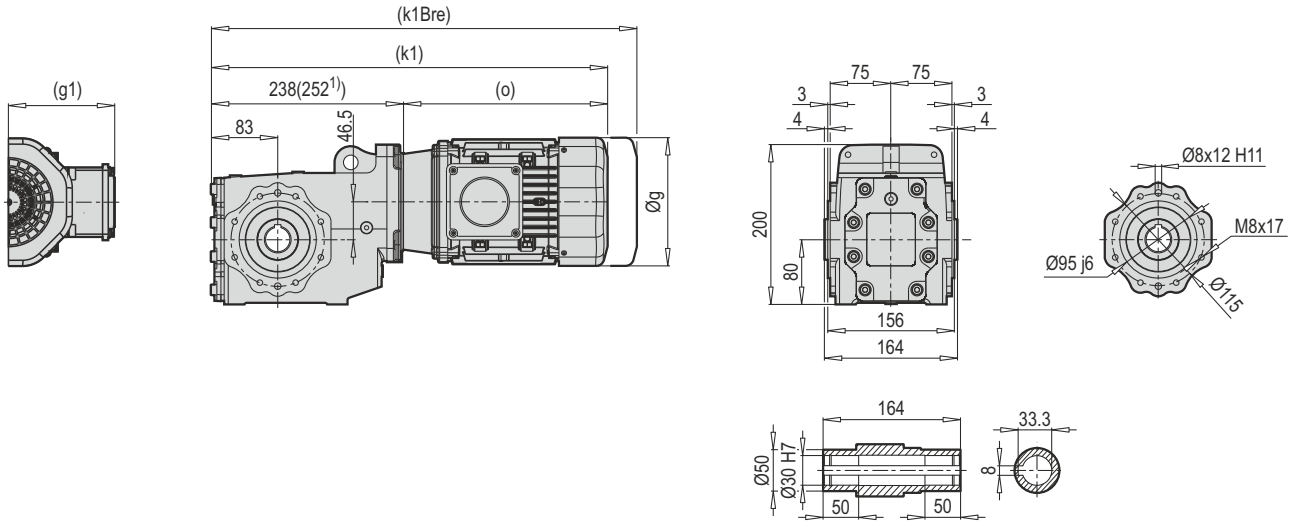
66-67



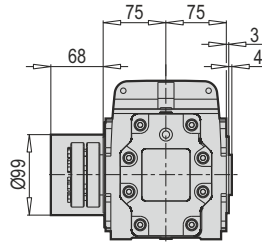
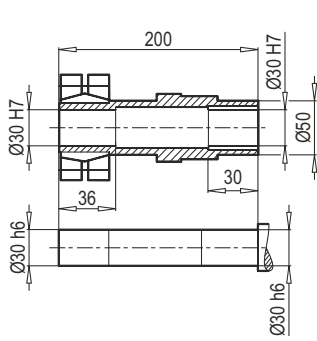
	63 M	71 M	80 M	90 S/L	100 L ⁽¹⁾			
g	124	140	172	182	202			
g1	111	119	131	130	153			
k/k1	433/436	462/465	488/491	553/556	593/596			
kBre/k1Bre	485/488	522/525	558/561	621/624	676/679			
o	198	227	253	318	358			

Not: (...) İşaretili olan ölçüler motor markasına göre farklılık gösterir. / Note: The dimensions which have (...) sign vary depending on the motor. / Hinweis: (...) Die gekennzeichneten Maße unterscheiden sich je nach Motormarke.

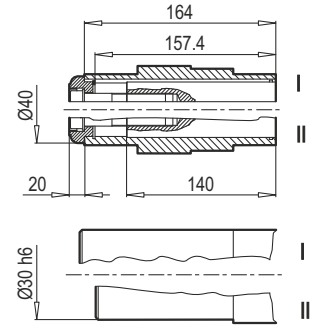
PKD C 1290 DG/B14



PKD C 1290 DG/KS



PKD C 1290 DG/Ç



66-67

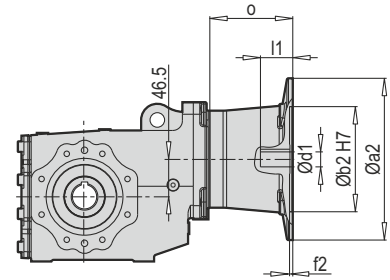
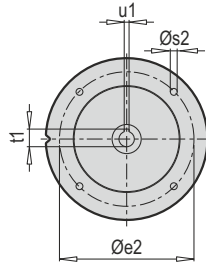
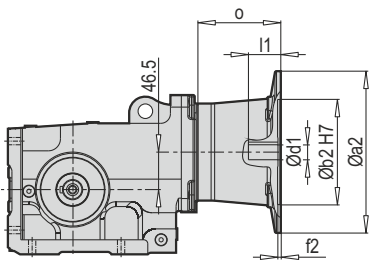
Konik sıkırtma / Shrink disc / Schrumpfscheibe				Altıköşe başlı cıvata / Hexagonal screw / Sechskantschraube DIN 931 / DIN 933* 10.9Vz		
Tip / Type / Typ	M _{amax} (Nm)	s ^{h6}	s ^{f6}	dxl	Zs	MA (Nm)
KS 30/40	230	4.26	3.73	M6x35*	8	12

	63 M	71 M	80 M	90 S/L	100 L ⁽¹⁾			
g	124	140	172	182	202			
g1	111	119	131	130	153			
k1	436	465	491	556	596			
k1Bre	488	525	561	624	679			
o	198	227	253	318	358			

Not: (...) İşaretili olan ölçüler motor markasına göre farklılık gösterir. / Note: The dimensions which have (...) sign vary depending on the motor. / Hinweis: (...) Die gekennzeichneten Maße unterscheiden sich je nach Motormarke.

PKD C 1290

IEC

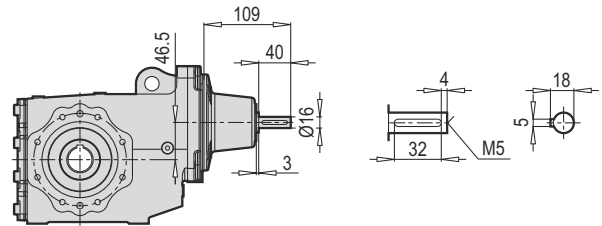
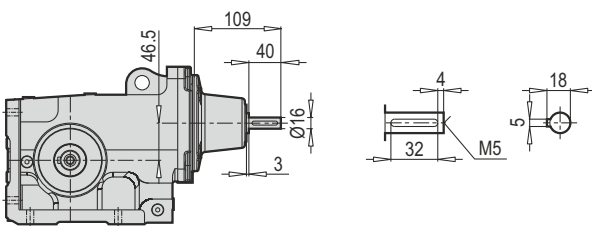


Tip / Type / Typ	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD C 1290	63	140	95	115	3.5	M8	11	23	12.8	4	85
	71	160	110	130	4.0	M8	14	30	16.3	5	85
	80	200	130	165	4.0	M10	19	40	21.8	6	103
	90	200	130	165	4.0	M10	24	50	27.3	8	103
	100	250	180	215	5.0	M12	28	60	31.3	8	126

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

PKD C 1290

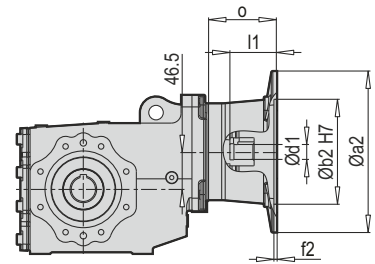
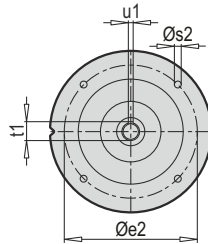
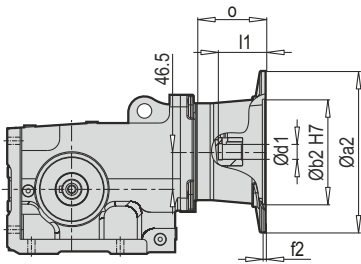
W



W ~ Kg	
PKD C 1290	18

PKD C 1290

PAM B5/B14



Tip / Type / Typ	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

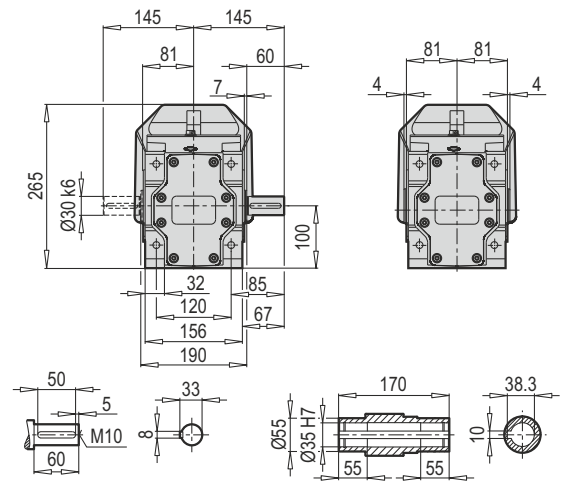
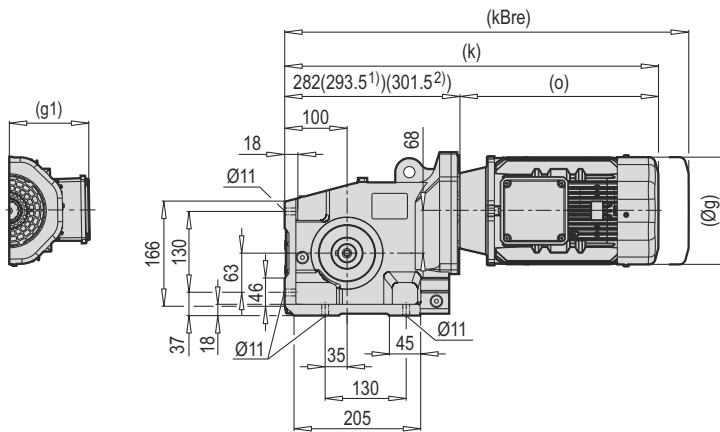
~ Kg	
PAM B5	PKD C 1290
63	18
71	19
80	21
90	21
100	26

Tip / Type / Typ	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

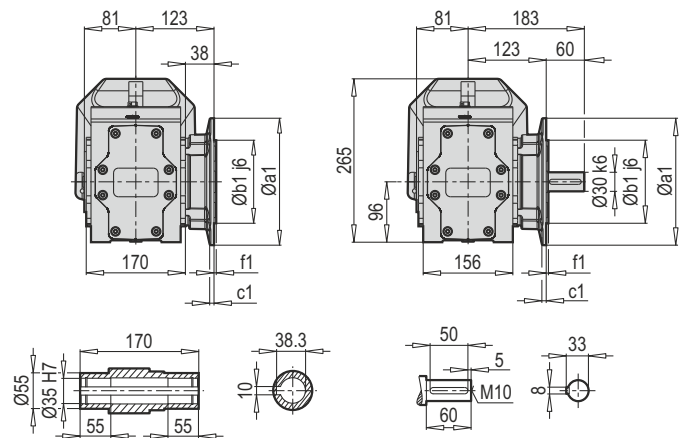
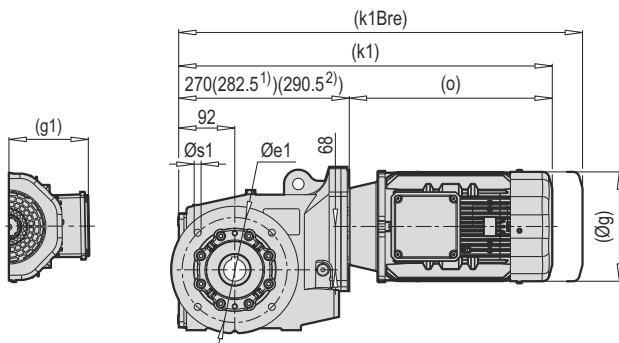
PKD F 4290 TMA

PKD F 4290 DA



PKD F 4290 DG/B5

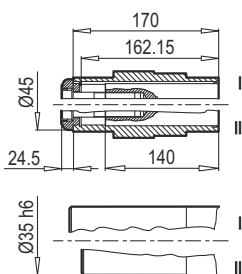
PKD F 4290 TMG/B5



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

PKD F 4290 DAÇ

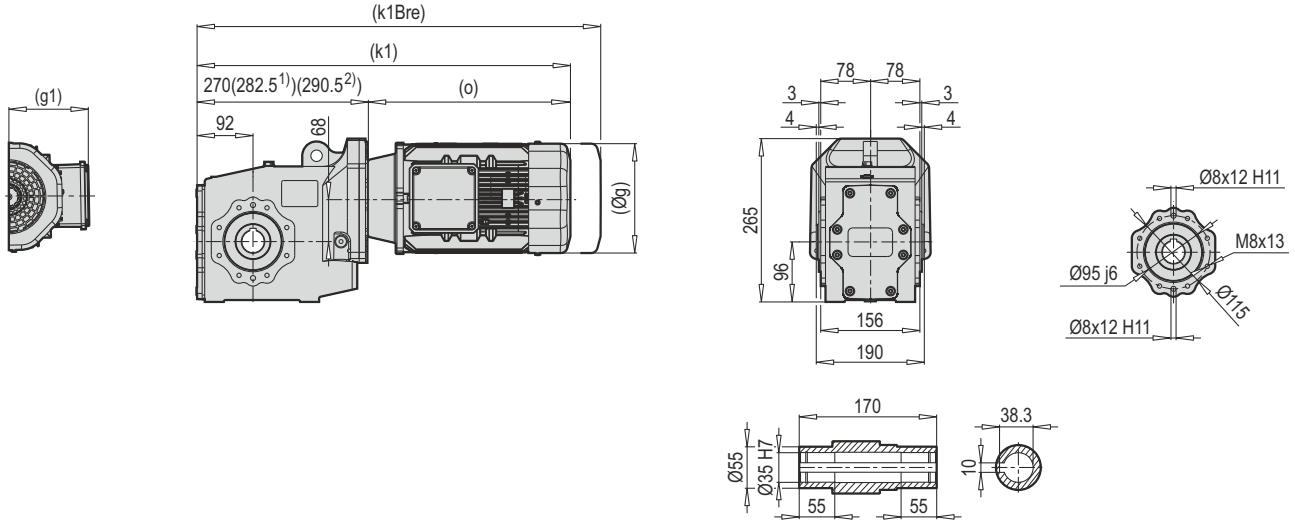
66-67



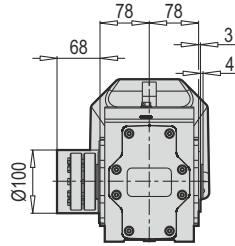
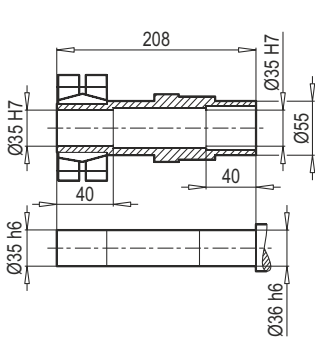
	71 M	80 M	90 S/L	100 L ⁽¹⁾	112 M ⁽²⁾	132 S ⁽²⁾	132 M ⁽²⁾
g	140	172	182	202	220	271	271
g1	119	131	130	153	159	188	188
k/k1	509/497	535/523	600/588	651/640	646/635	712/701	712/701
kBre/k1Bre	569/557	605/593	668/656	735/724	746/735	812/801	832/811
o	227	253	318	358	352	419	419

Not: (...) İşaretili olan ölçüler motor markasına göre farklılık gösterir. / Note: The dimensions which have (...) sign vary depending on the motor. / Hinweis: (...) Die gekennzeichneten Maße unterscheiden sich je nach Motormarke.

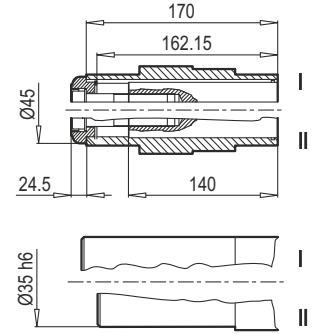
PKD F 4290 DG/B14



PKD F 4290 DG/KS



PKD F 4290 DG/Ç



66-67

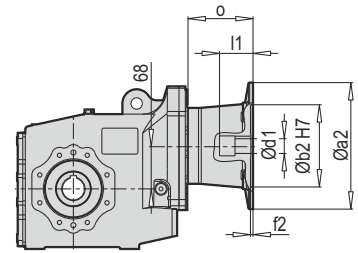
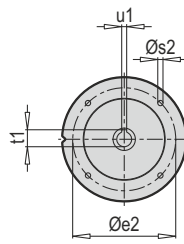
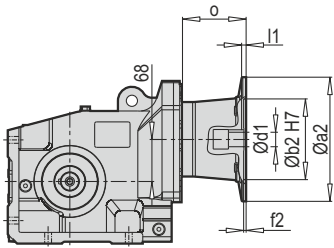
Konik sıkırtma / Shrink disc / Schrumpfscheibe				Altıköşe başlı civata / Hexagonal screw / Sechskantschraube DIN 931 / DIN 933* 10.9Vz		
Tip / Type / Typ	M _{amax} (Nm)	s ^{h6}	s ^{f6}	d _{xl}	Zs	MA (Nm)
KS 35/46	380	3.77	3.27	M6x35*	10	12

	71 M	80 M	90 S/L	100 L ⁽¹⁾	112 M ⁽²⁾	132 S ⁽²⁾	132 M ⁽²⁾		
g	140	172	182	202	220	271	271		
g1	119	131	130	153	159	188	188		
k1	497	523	588	640	635	701	701		
k1Bre	557	593	656	724	735	801	811		
o	227	253	318	358	352	419	419		

Not: (...) İşaretili olan ölçüler motor markasına göre farklılık gösterir. / Note: The dimensions which have (...) sign vary depending on the motor. / Hinweis: (...) Die gekennzeichneten Maße unterscheiden sich je nach Motormarke.

PKD F 4290

IEC

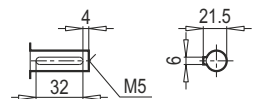
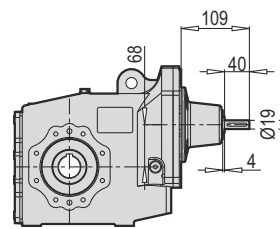
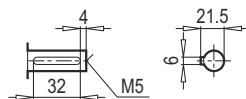
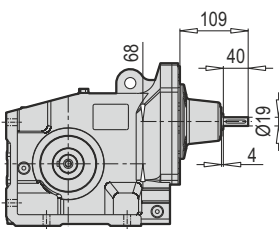


Tip / Type / Typ	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD F 4290	63	140	95	115	3.5	M8	11	23	12.8	4	85
	71	160	110	130	4.0	M8	14	30	16.3	5	85
	80	200	130	165	4.0	M10	19	40	21.8	6	103
	90	200	130	165	4.0	M10	24	50	27.3	8	103
	100	250	180	215	5.0	M12	28	60	31.3	8	126
	112	250	180	215	5.0	M12	28	60	31.3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

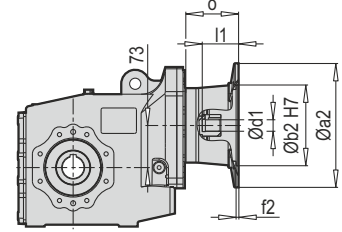
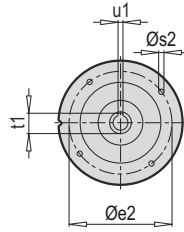
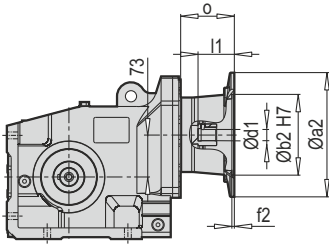
W



W ~ Kg	
PKD F 4290	35.5

PKD F 4290

PAM B5/B14



Tip / Type / Typ	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

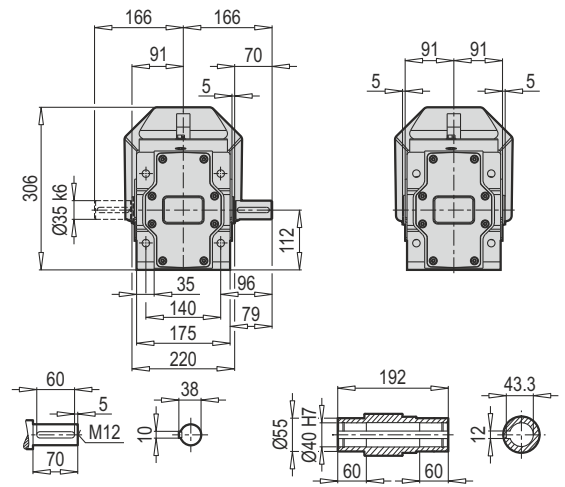
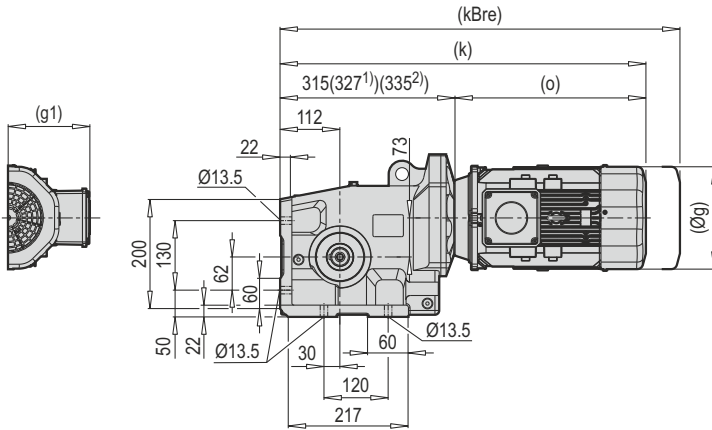
~ Kg	
PAM B5	PKD F 4290
63	35
71	36
80	38
90	38
100	43
112	43
132	50

Tip / Type / Typ	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

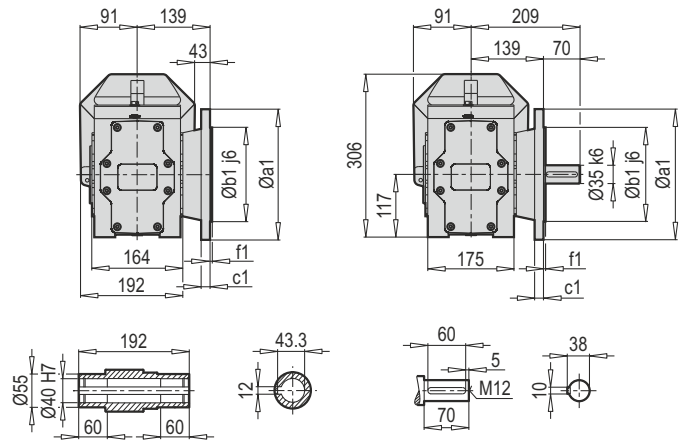
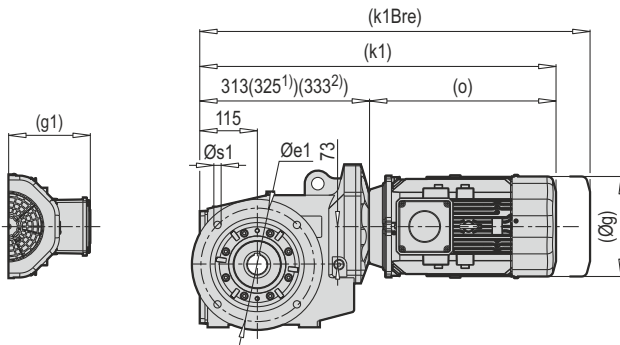
PKD H 5290 TMA

PKD H 5290 DA



PKD H 5290 DG/B5

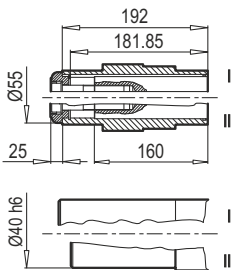
PKD H 5290 TMG/B5



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

PKD H 5290 DA/Ç

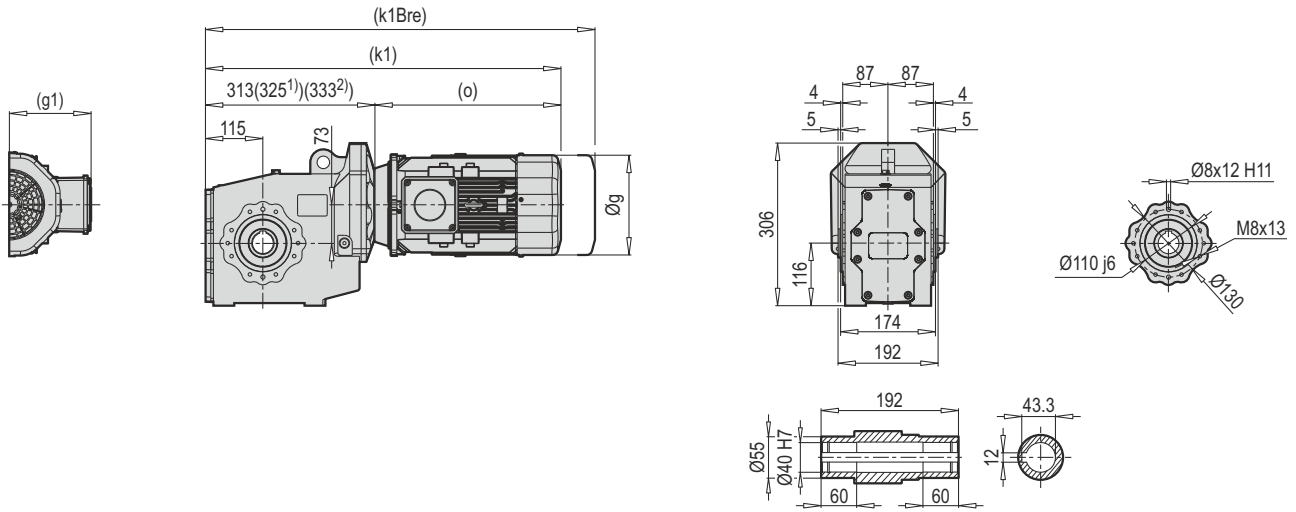
66-67



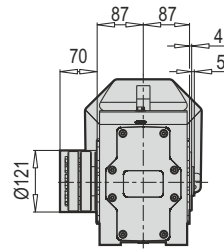
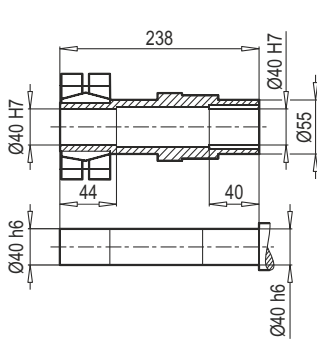
	71 M	80 M	90 S/L	100 L ⁽¹⁾	112 M ⁽¹⁾	132 S ⁽²⁾	132 M ⁽²⁾
g	140	172	182	202	220	271	271
g1	119	131	130	153	159	188	188
k/k1	542/540	568/567	633/631	685/683	679/677	754/752	754/752
kBre/k1Bre	602/600	638/636	701/699	768/766	779/777	853/851	853/851
o	227	253	318	358	352	419	419

Not: (...) işaretli olan ölçüler motor markasına göre farklılık gösterir. / Note: The dimensions which have (...) sign vary depending on the motor. / Hinweis: (...) Die gekennzeichneten Maße unterscheiden sich je nach Motormarke.

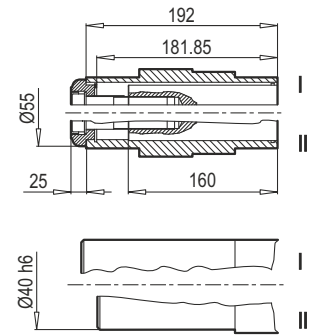
PKD H 5290 DG/B14



PKD H 5290 DG/KS



PKD H 5290 DG/Ç



66-67

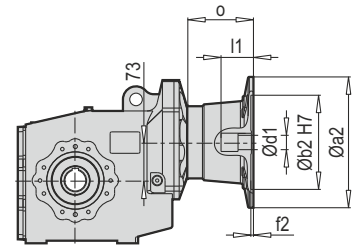
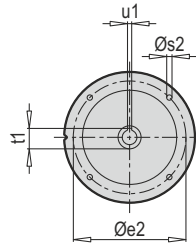
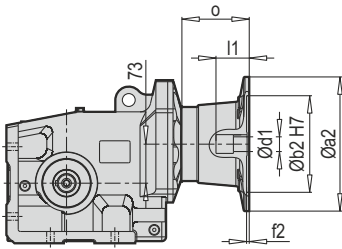
Konik sıkırtma / Shrink disc / Schrumpfscheibe				Altıköşe başlı civata / Hexagonal screw / Sechskantschraube DIN 931 / DIN 933* 10.9Vz		
Tip / Type / Typ	M _{amax} (Nm)	s ^{h6}	s ^{f6}	dxl	Zs	MA (Nm)
KS 40/55	660	3.53	3.09	M8x40	8	30

	71 M	80 M	90 S/L	100 L ⁽¹⁾	112 M ⁽¹⁾	132 S ⁽²⁾	132 M ⁽²⁾		
g	140	172	182	202	220	271	271		
g1	119	131	130	153	159	188	188		
k1	540	567	631	683	677	752	752		
k1Bre	600	636	699	766	777	851	851		
o	227	253	318	358	352	419	419		

Not: (...) İşaretili olan ölçüler motor markasına göre farklılık gösterir. / Note: The dimensions which have (...) sign vary depending on the motor. / Hinweis: (...) Die gekennzeichneten Maße unterscheiden sich je nach Motormarke.

PKD H 5290

IEC

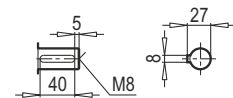
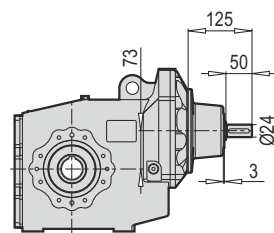
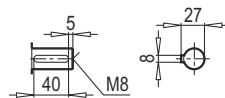
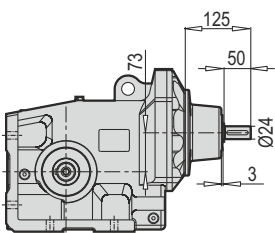


Tip / Type / Typ	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD H 5290	63	140	95	115	3.5	M8	11	23	12.8	4	85
	71	160	110	130	4.0	M8	14	30	16.3	5	89
	80	200	130	165	4.0	M10	19	40	21.8	6	103
	90	200	130	165	4.0	M10	24	50	27.3	8	103
	100	250	180	215	5.0	M12	28	60	31.3	8	126
	112	250	180	215	5.0	M12	28	60	31.3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

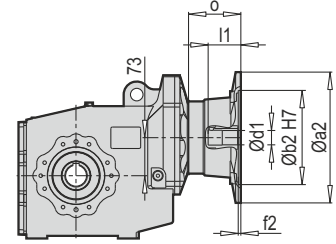
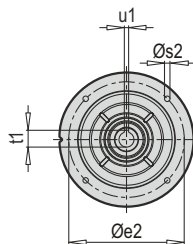
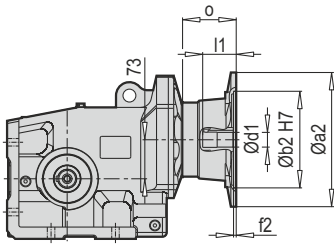
W



W ~ Kg	
PKD H 5290	46

PKD H 5290

PAM B5/B14



Tip / Type / Typ	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

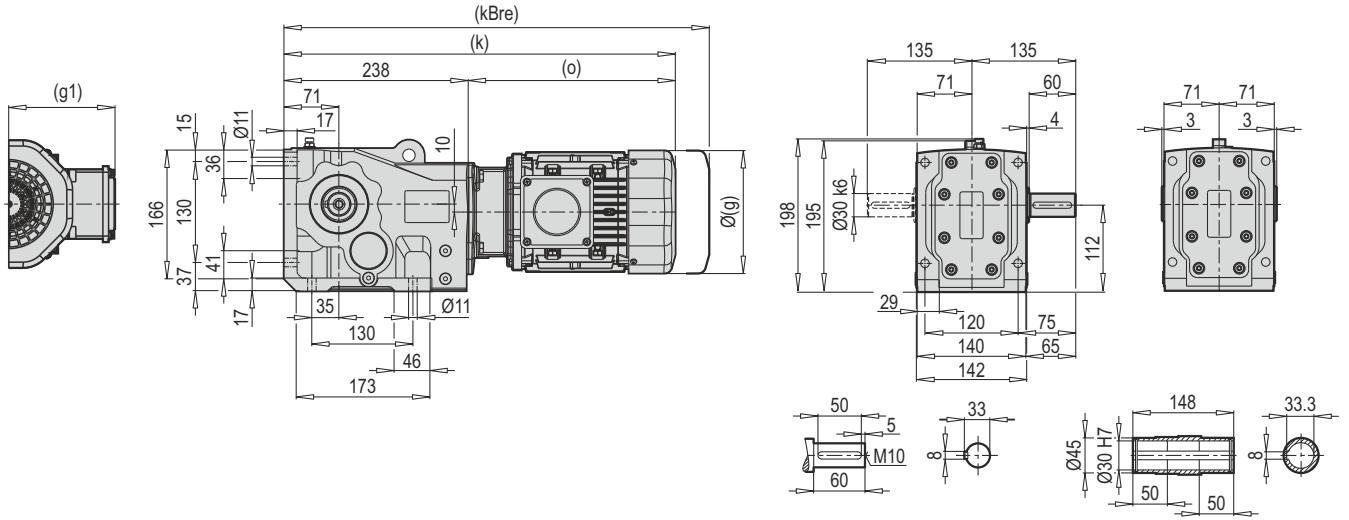
~ Kg	
PAM B5	PKD H 5290
63	44
71	45
80	47
90	47
100	52
112	52
132	59

Tip / Type / Typ	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

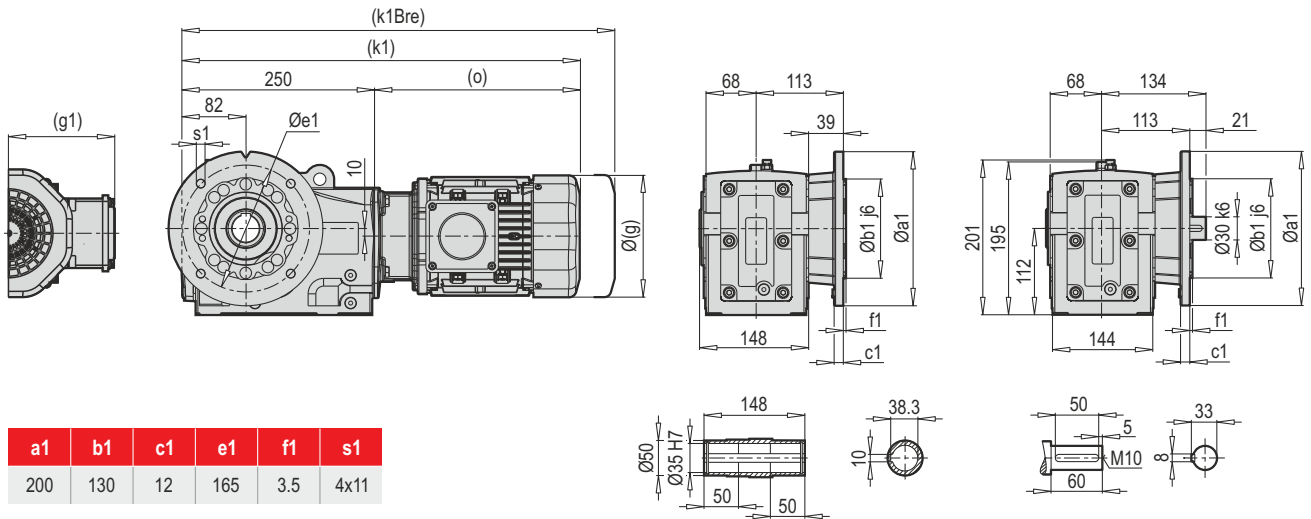
PKD 1390 TMA

PKD 1390 DA



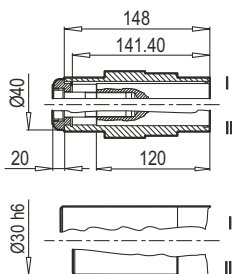
PKD 1390 DG/B5

PKD 1390 TMG/B5



PKD 1390 DA/Ç

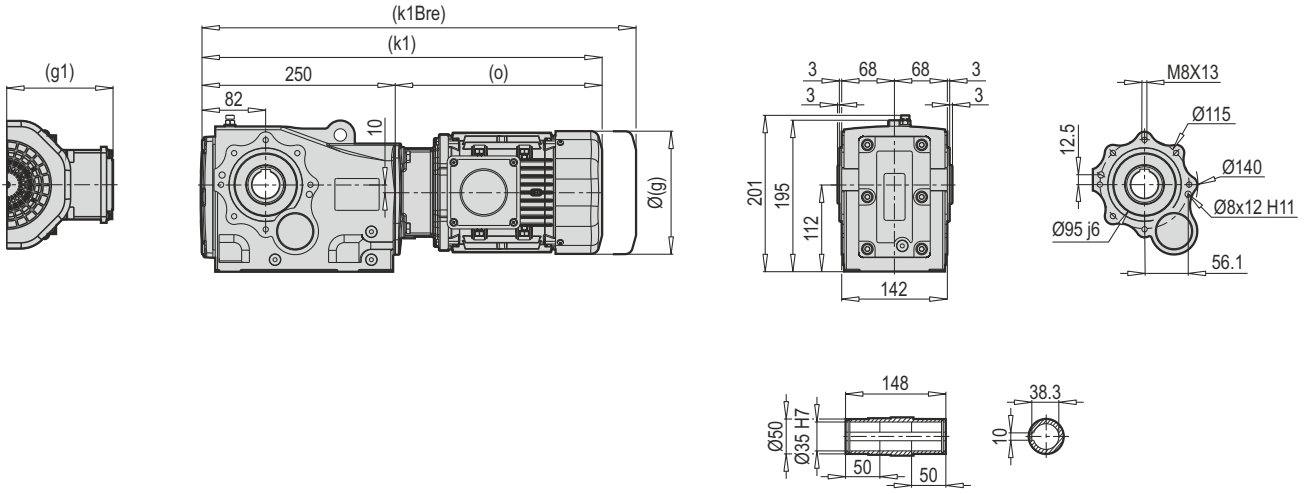
66-67



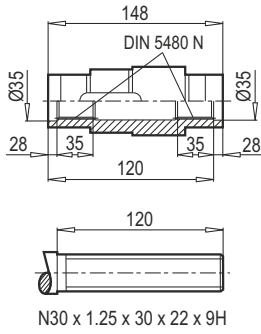
	63 M	71 M	80 M	90 S/L	100 L	112 M		
g	124	140	172	182	202	220		
g1	111	119	131	130	153	159		
k/k1	437/448	479/490	504/516	570/585	621/633	616/628		
kBre/k1Bre	489/500	539/550	574/586	578/590	705/717	716/728		
o	198	240	266	332	383	378		

Not: (...) İşaretili olan ölçüler motor markasına göre farklılık gösterir. / Note: The dimensions which have (...) sign vary depending on the motor. / Hinweis: (...) Die gekennzeichneten Maße unterscheiden sich je nach Motormarke.

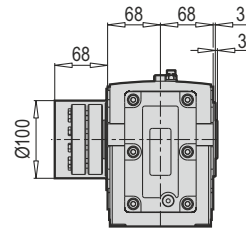
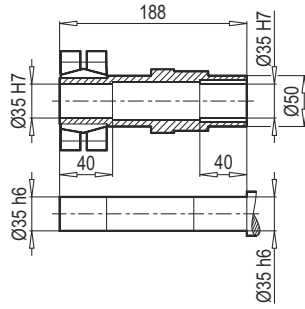
PKD 1390 DG/B14



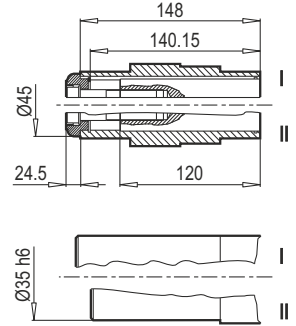
PKD 1390 DG/DIN 5480



PKD 1390 DG/KS



PKD 1390 DG/Ç



66-67

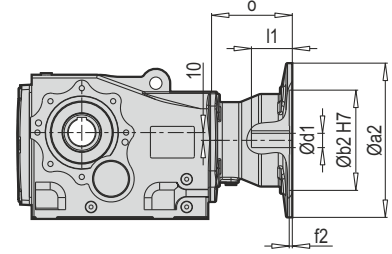
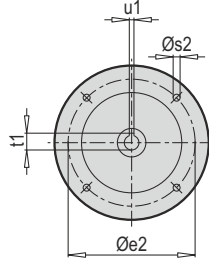
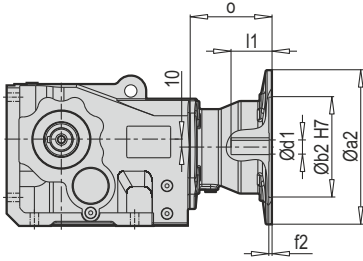
Konik sıkırtma / Shrink disc / Schrumpfscheibe				Altıköşe başlı civata / Hexagonal screw / Sechskantschraube DIN 931 / DIN 933* 10.9Vz		
Tip / Type / Typ	M _{amax} (Nm)	s ^{h6}	s ^{f6}	dxl	Zs	MA (Nm)
KS 35/46	400	3.58	3.11	M6x35*	10	12

	63 M	71 M	80 M	90 S/L	100 L	112 M		
g	124	140	172	182	202	220		
g1	111	119	131	130	153	159		
k1	448	490	516	585	633	628		
k1Bre	500	550	586	590	717	728		
o	198	240	266	332	383	378		

Not: (...) İşaretili olan ölçüler motor markasına göre farklılık gösterir. / Note: The dimensions which have (...) sign vary depending on the motor. / Hinweis: (...) Die gekennzeichneten Maße unterscheiden sich je nach Motormarke.

PKD 1390

IEC

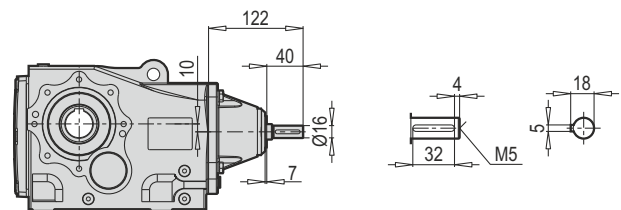
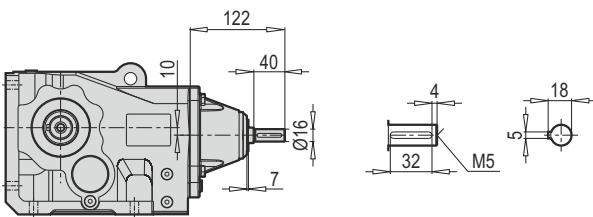


Tip / Type / Typ	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD 1390	63	140	95	115	3.5	M8	11	23	12.8	4	85
	71	160	110	130	4.0	M8	14	30	16.3	5	89
	80	200	130	165	4.0	M10	19	40	21.8	6	105
	90	200	130	165	4.0	M10	24	50	27.3	8	105
	100	250	180	215	5.0	M12	28	60	31.3	8	130
	112	250	180	215	5.0	M12	28	60	31.3	8	130

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

PKD 1390

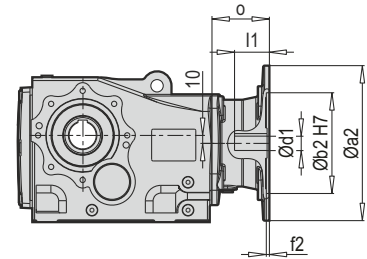
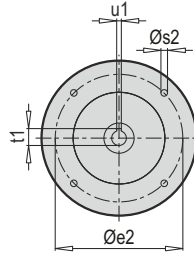
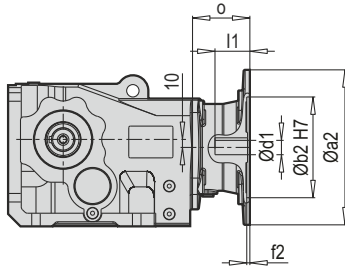
W



W ~ Kg	
PKD 1390	35

PKD 1390

PAM B5/B14



Tip / Type / Typ	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

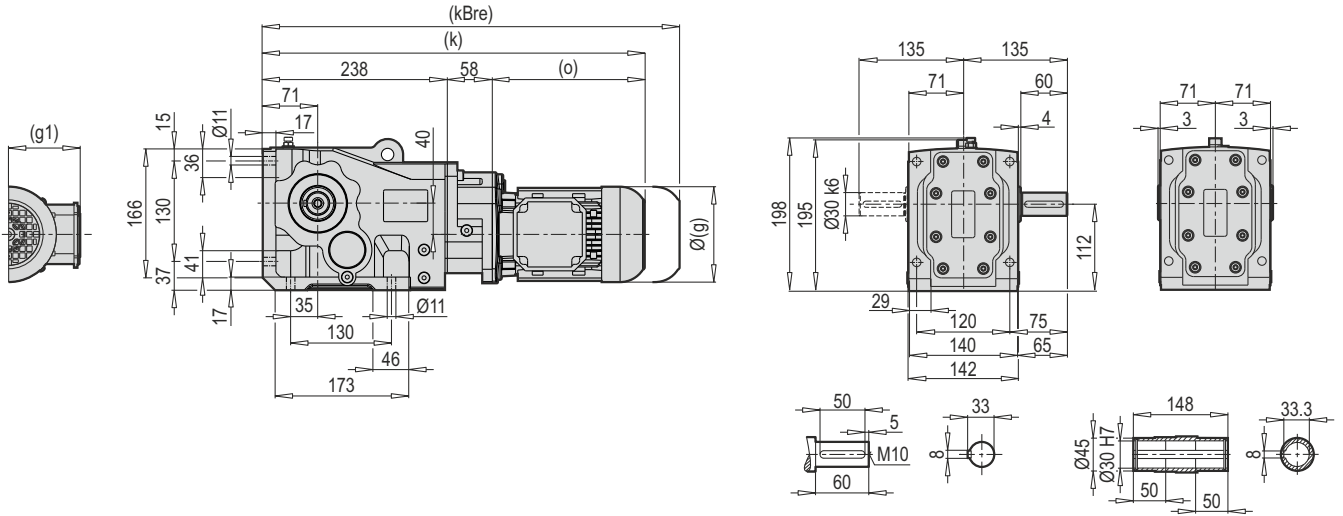
~ Kg	
PAM B5	PKD 1390
63	34
71	34
80	35
90	35
100	42
112	42

Tip / Type / Typ	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

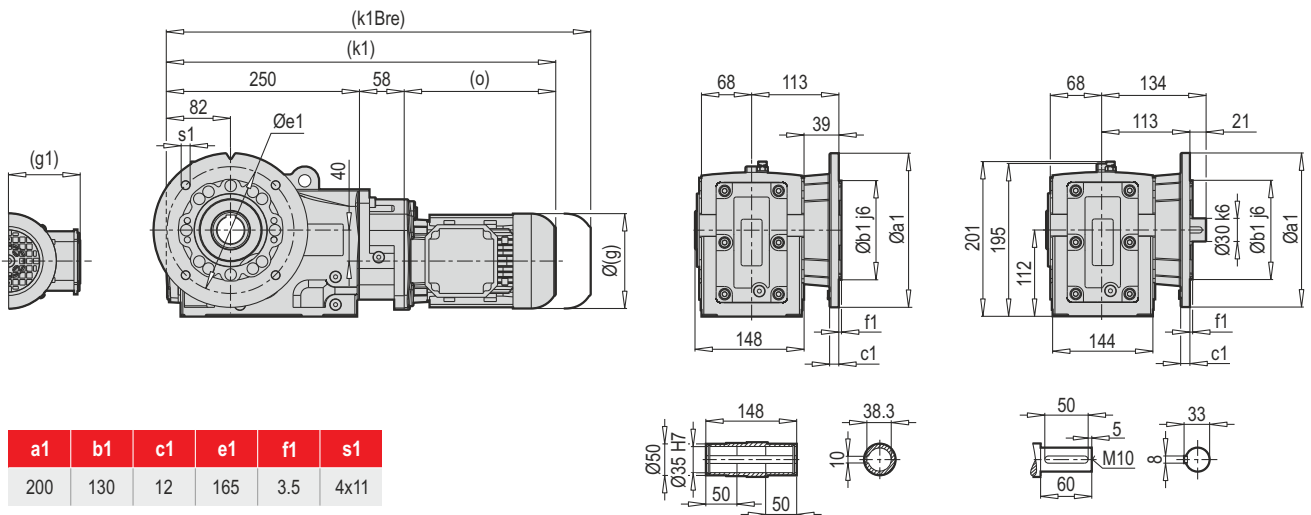
PKD 1490 TMA

PKD 1490 DA



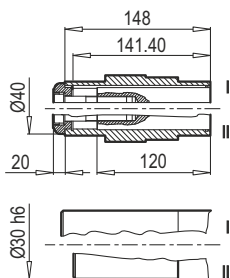
PKD 1490 DG/B5

PKD 1490 TMG/B5



PKD 1490 DA/Ç

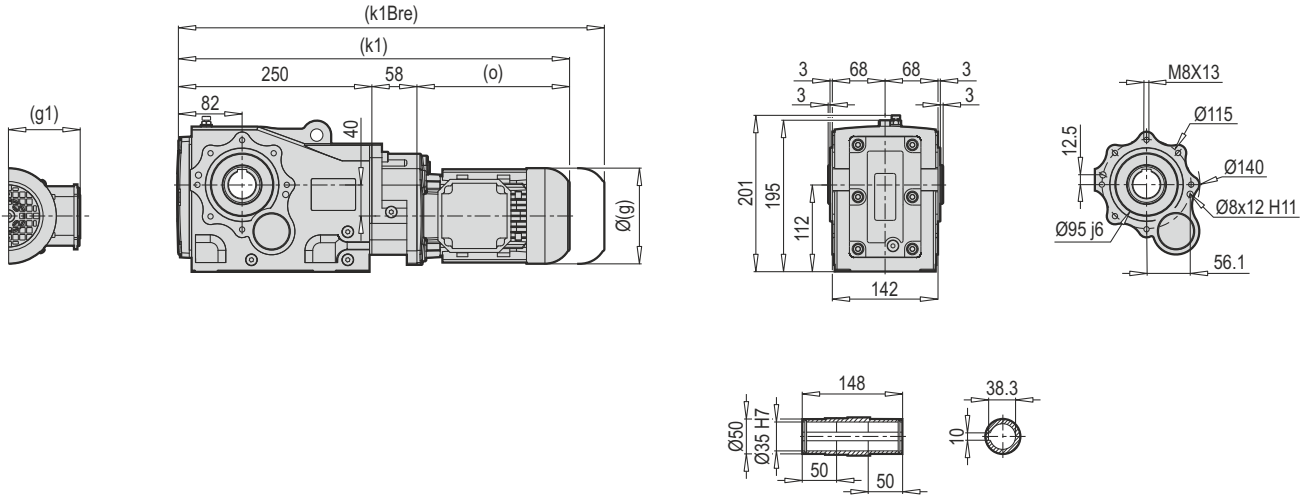
66-67



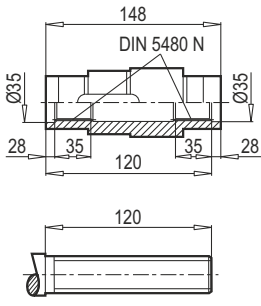
	63 M	71 M					
g	124	140					
g1	111	119					
k/k1	495/506	537/548					
kBre/k1Bre	547/558	597/608					
o	198	240					

Not: (...) İşaretili olan ölçüler motor markasına göre farklılık gösterir. / Note: The dimensions which have (...) sign vary depending on the motor. / Hinweis: (...) Die gekennzeichneten Maße unterscheiden sich je nach Motormarke.

PKD 1490 DG/B14

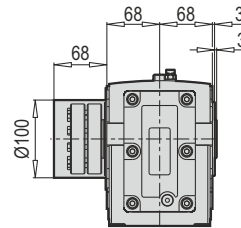
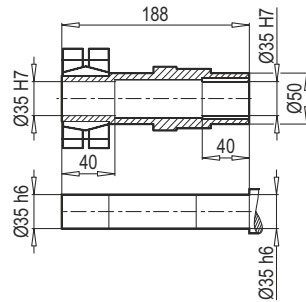


PKD 1490 DG/DIN 5480

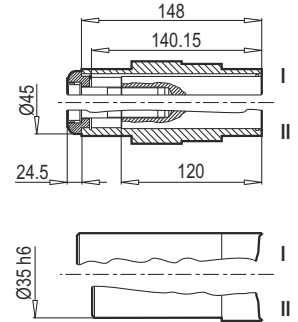


N30 x 1.25 x 30 x 22 x 9H

PKD 1490 DG/KS



PKD 1490 DG/Ç



66-67

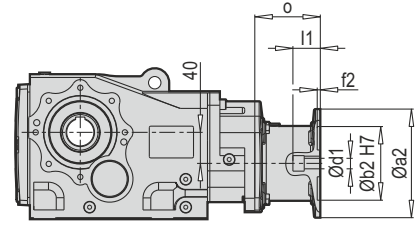
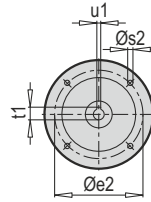
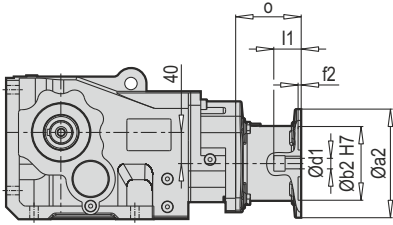
Konik sıkırtma / Shrink disc / Schrumpfscheibe				Altıköşe başlı civata / Hexagonal screw / Sechskantschraube DIN 931 / DIN 933* 10.9Vz		
Tip / Type / Typ	M _{amax} (Nm)	s ^{h6}	s ^{f6}	dxl	Zs	MA (Nm)
KS 35/46	400	3.58	3.11	M6x35*	10	12

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

Not: (...) İşaretili olan ölçüler motor markasına göre farklılık gösterir. / Note: The dimensions which have (...) sign vary depending on the motor. / Hinweis: (...) Die gekennzeichneten Maße unterscheiden sich je nach Motormarke.

PKD 1490

IEC

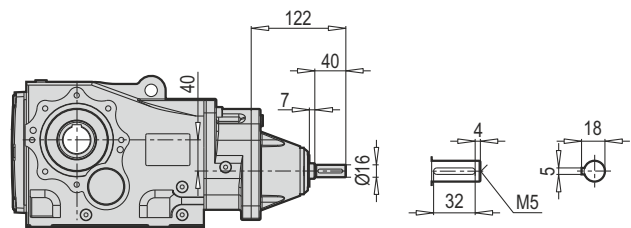
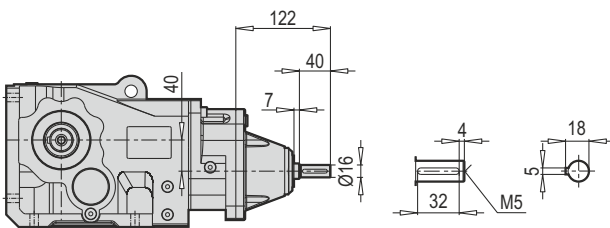


Tip / Type / Typ	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD 1490	63	140	95	115	3.5	M8	11	23	12.8	4	85
	71	160	110	130	4.0	M8	14	30	16.3	5	89

~ Kg	
IEC	PKD 1490
63	36
71	37

PKD 1490

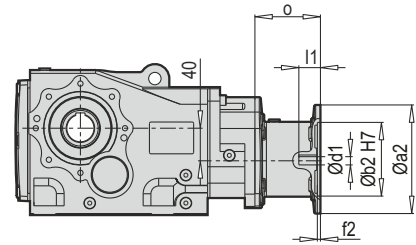
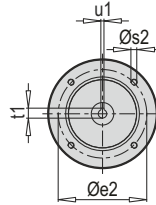
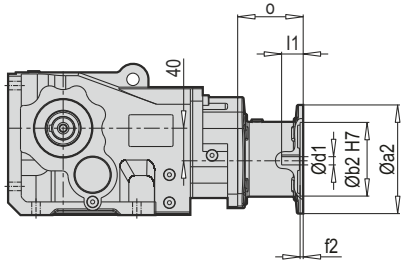
W



W ~ Kg	
PKD 1490	41

PKD 1490

PAM B5/B14



Tip / Type / Typ	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

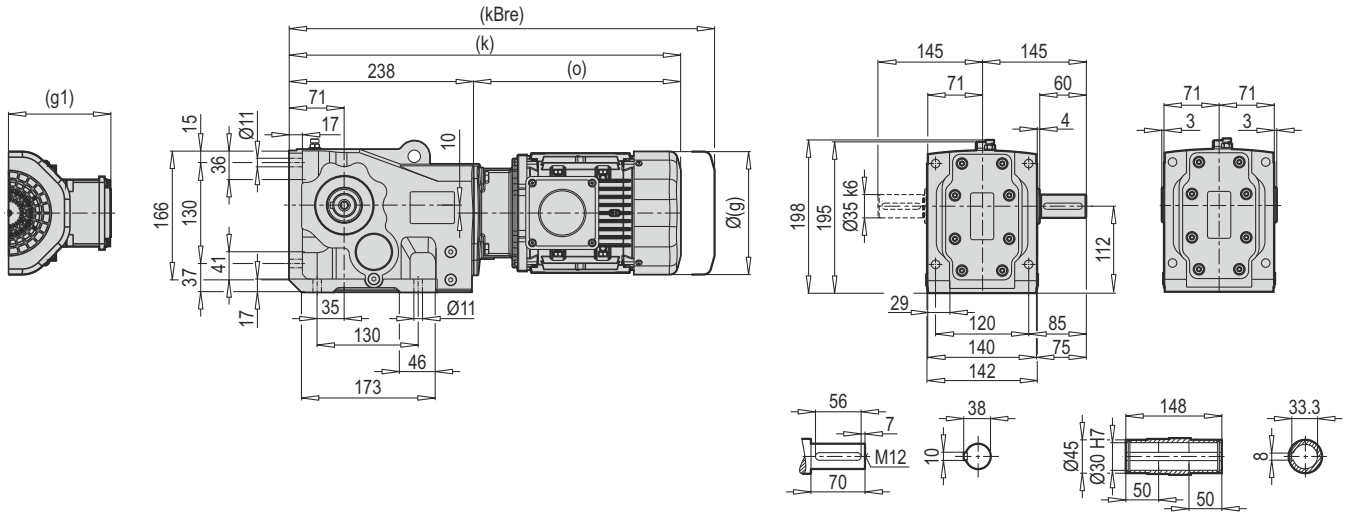
~ Kg	
PAM B5	PKD 1490
63	39
71	39

Tip / Type / Typ	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

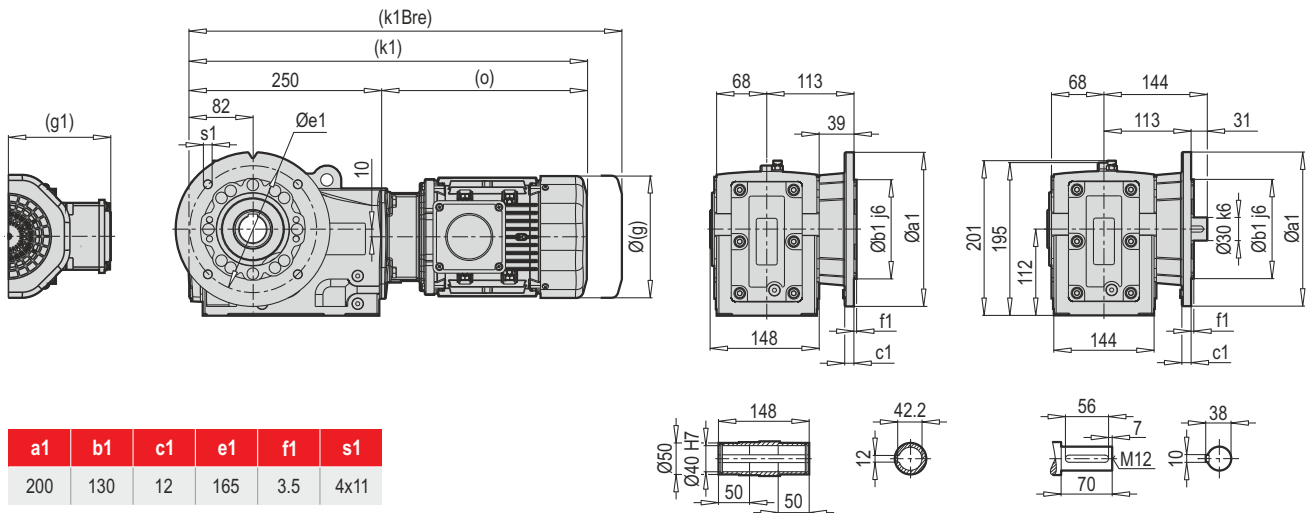
PKD G 1390 TMA

PKD G 1390 DA



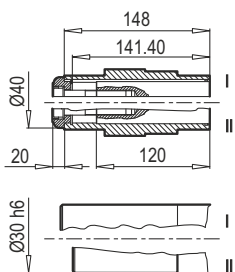
PKD G 1390 DG/B5

PKD G 1390 TMG/B5



PKD G 1390 DA/Ç

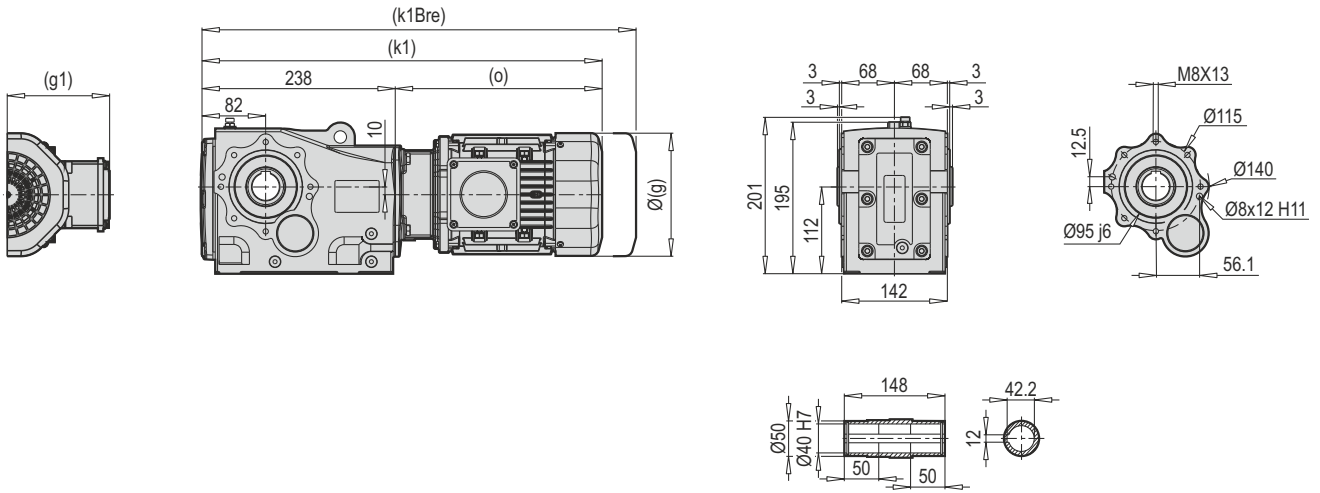
66-67



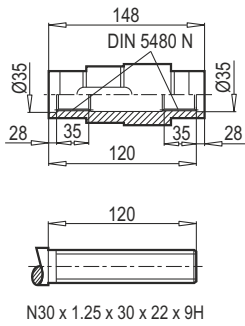
	63 M	71 M	80 M	90 S/L	100 L	112 M		
g	124	140	172	182	202	220		
g1	111	119	131	130	153	159		
k/k1	437/448	479/490	504/516	570/582	621/633	616/628		
kBre/k1Bre	489/500	539/550	574/586	578/590	705/717	716/728		
o	198	240	266	332	383	378		

Not: (...) İşaretili olan ölçüler motor markasına göre farklılık gösterir. / Note: The dimensions which have (...) sign vary depending on the motor. / Hinweis: (...) Die gekennzeichneten Maße unterscheiden sich je nach Motormarke.

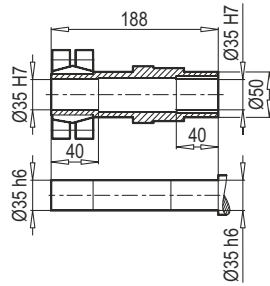
PKD G 1390 DG/B14



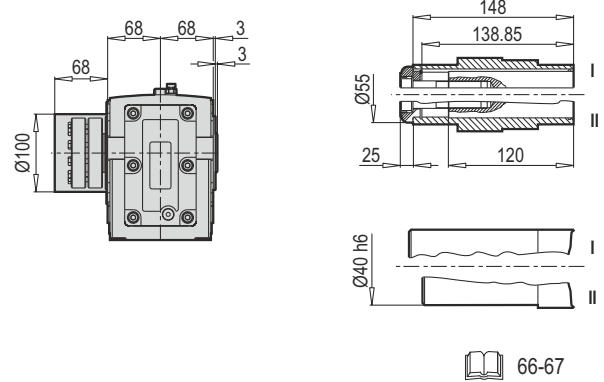
PKD G 1390 DG/DIN 5480



PKD G 1390 DG/KS



PKD G 1390 DG/Ç



66-67

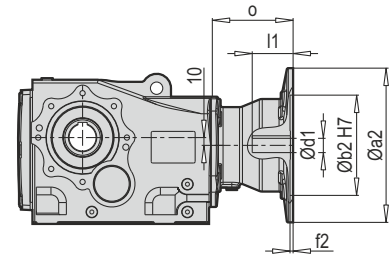
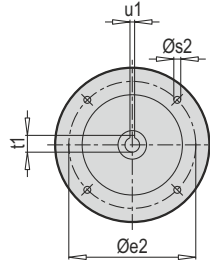
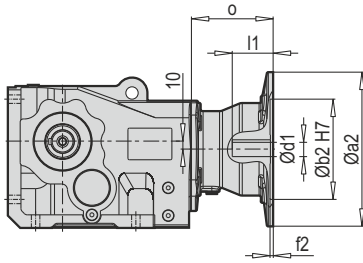
Konik sıkırtma / Shrink disc / Schrumpfscheibe				Altıköşe başlı cıvata / Hexagonal screw / Sechskantschraube DIN 931 / DIN 933* 10.9Vz		
Tip / Type / Typ	M _{amax} (Nm)	s ^{h6}	s ^{f6}	dxl	Zs	MA (Nm)
KS 35/46	400	3.58	3.11	M6x35*	10	12

	63 M	71 M	80 M	90 S/L	100 L	112 M		
g	124	140	172	182	202	220		
g1	111	119	131	130	153	159		
k1	448	490	516	582	633	628		
k1Bre	500	550	586	590	717	728		
o	198	240	266	332	383	378		

Not: (...) İşaretili olan ölçüler motor markasına göre farklılık gösterir. / Note: The dimensions which have (...) sign vary depending on the motor. / Hinweis: (...) Die gekennzeichneten Maße unterscheiden sich je nach Motormarke.

PKD G 1390

IEC

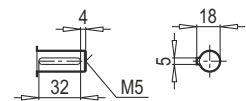
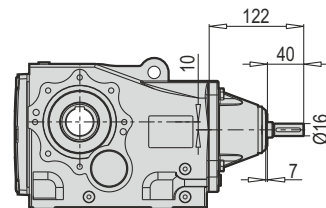
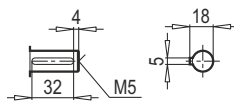
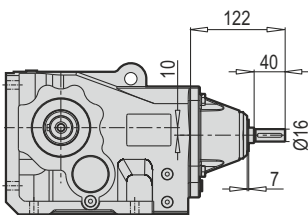


Tip / Type / Typ	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD G 1390	63	140	95	115	3.5	M8	11	23	12.8	4	85
	71	160	110	130	4.0	M8	14	30	16.3	5	89
	80	200	130	165	4.0	M10	19	40	21.8	6	105
	90	200	130	165	4.0	M10	24	50	27.3	8	105
	100	250	180	215	5.0	M12	28	60	31.3	8	130
	112	250	180	215	5.0	M12	28	60	31.3	8	130

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

PKD G 1390

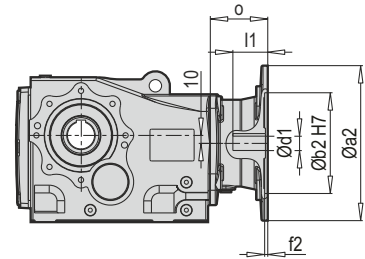
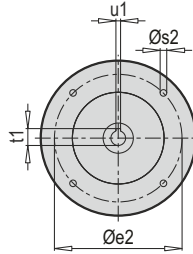
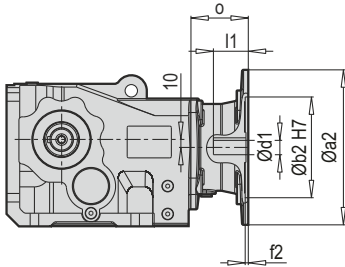
W



W ~ Kg	
PKD G 1390	41

PKD G 1390

PAM B5/B14



Tip / Type / Typ	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

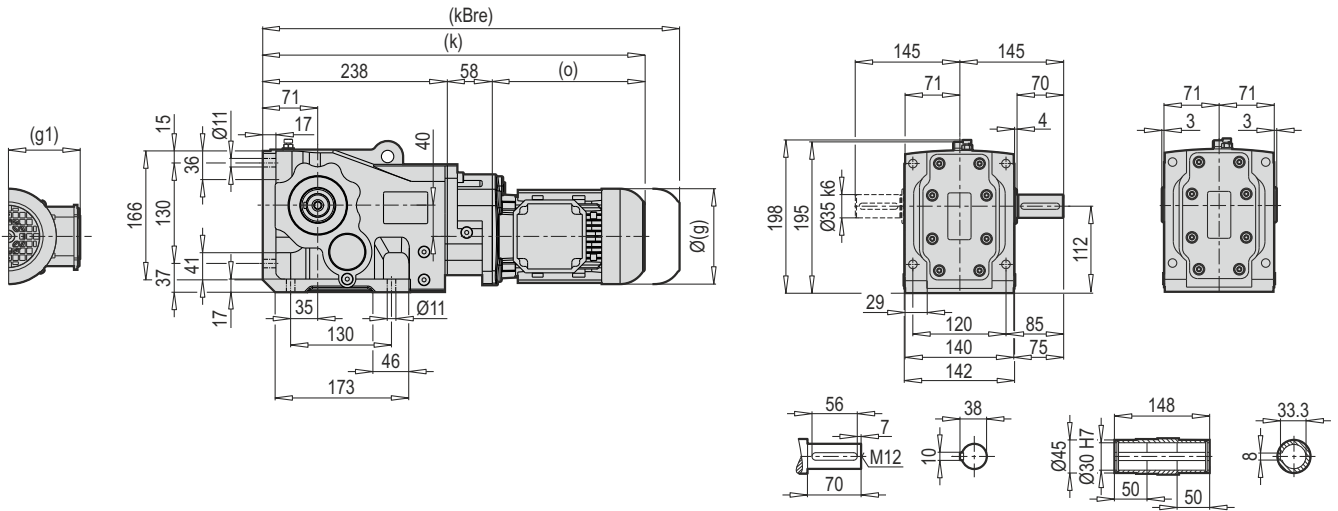
~ Kg	
PAM B5	PKD G 1390
63	35
71	35
80	36
90	36
100	43
112	43

Tip / Type / Typ	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

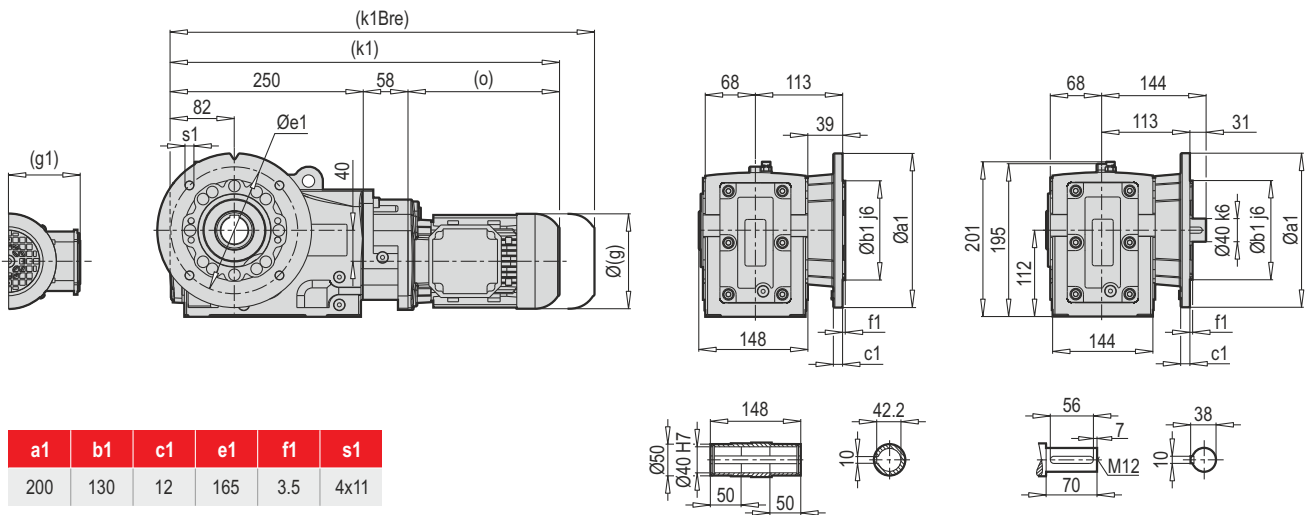
PKD G 1490 TMA

PKD G 1490 DA



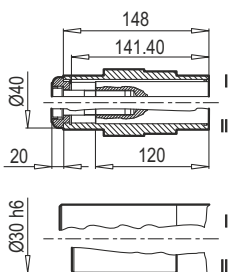
PKD G 1490 DG/B5

PKD G 1490 TMG/B5



PKD G 1490 DA/Ç

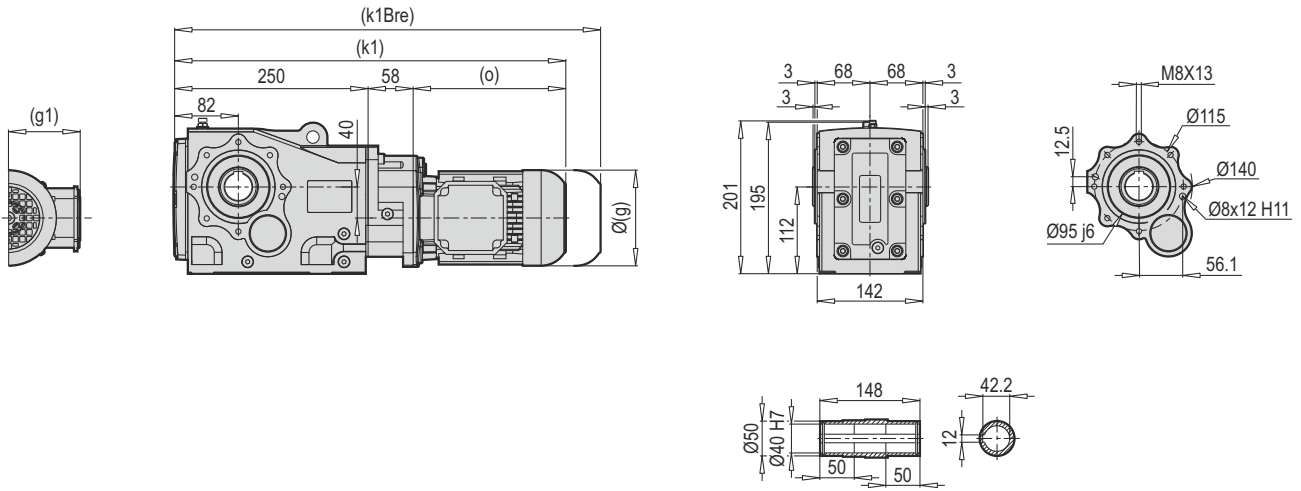
66-67



	63 M	71 M					
g	124	140					
g1	111	119					
k/k1	459/506	537/548					
kBre/k1Bre	547/558	597/608					
o	198	240					

Not: (...) İşaretili olan ölçüler motor markasına göre farklılık gösterir. / Note: The dimensions which have (...) sign vary depending on the motor. / Hinweis: (...) Die gekennzeichneten Maße unterscheiden sich je nach Motormarke.

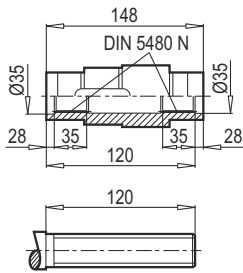
PKD G 1490 DG/B14



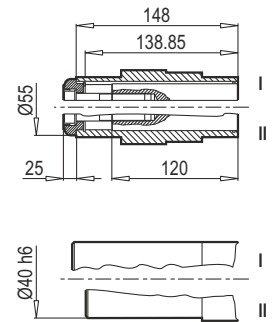
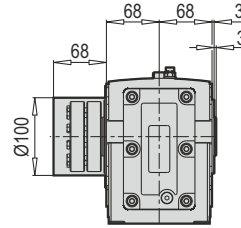
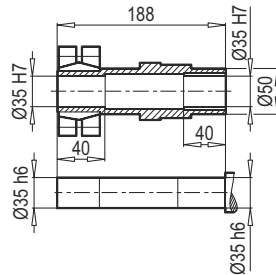
PKD G 1490 DG/DIN 5480

PKD G 1490 DG/KS

PKD G 1490 DG/Ç



N30 x 1.25 x 30 x 22 x 9H



66-67

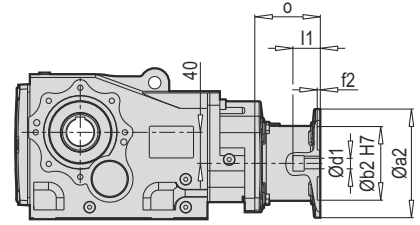
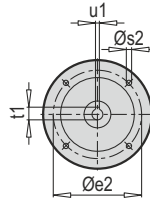
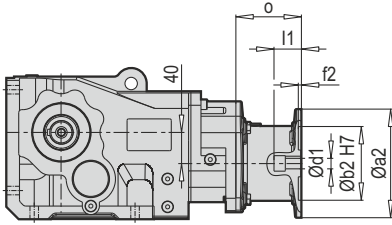
Konik sıkırtma / Shrink disc / Schrumpfscheibe				Altıköşe başlı civata / Hexagonal screw / Sechskantschraube DIN 931 / DIN 933* 10.9Vz		
Tip / Type / Typ	M _{max} (Nm)	s ^{h6}	s ^{f6}	d _{xl}	Zs	MA (Nm)
KS 35/46	400	3.58	3.11	M6x35*	10	12

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

Not: (...) İşaretili olan ölçüler motor markasına göre farklılık gösterir. / Note: The dimensions which have (...) sign vary depending on the motor. / Hinweis: (...) Die gekennzeichneten Maße unterscheiden sich je nach Motormarke.

PKD G 1490

IEC

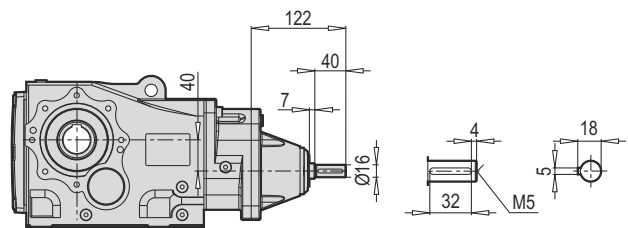
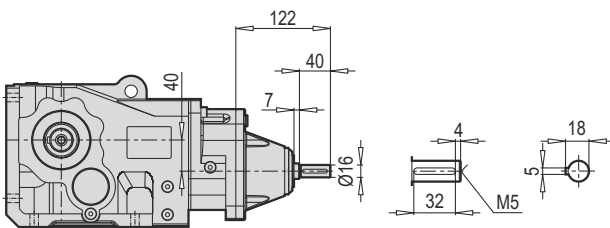


Tip / Type / Typ	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD G 1490	63	140	95	115	3.5	M8	11	23	12.8	4	85
	71	160	110	130	4.0	M8	14	30	16.3	5	89

~ Kg	
IEC	PKD G 1490
63	36
71	37

PKD G 1490

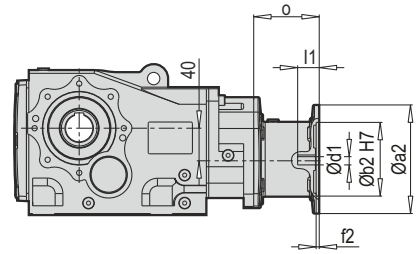
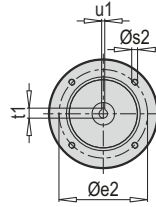
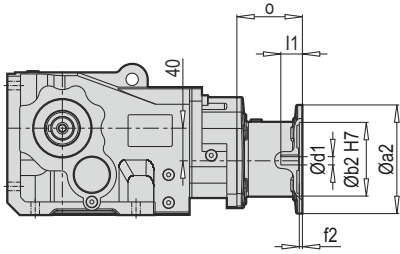
W



W ~ Kg	
PKD G 1490	42

PKD G 1490

PAM B5/B14



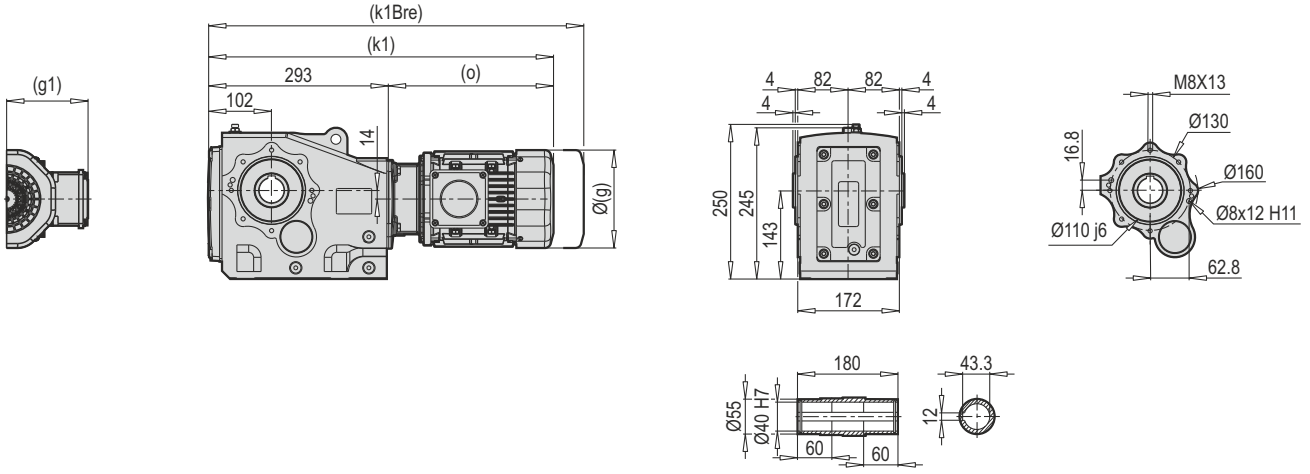
Tip / Type / Typ	PAM B5	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD G 1490	63	140	95	115	3.5	M8	11	23	12.8	4	85
	71	160	110	130	4.0	M8	14	30	16.3	5	55

~ Kg	
PAM B5	PKD G 1490
63	40
71	40

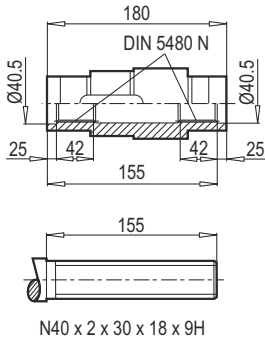
Tip / Type / Typ	PAM B14	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD G 1490	63	90	60	75	4.0	6	11	23	12.8	4	60
	71	105	70	85	4.0	7	14	30	16.3	5	55

~ Kg	
PAM B14	PKD G 1490
63	39
71	39

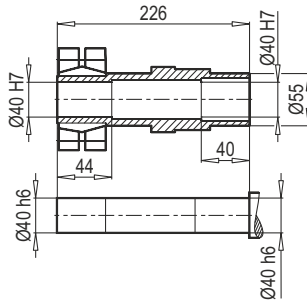
PKD 2390 DG/B14



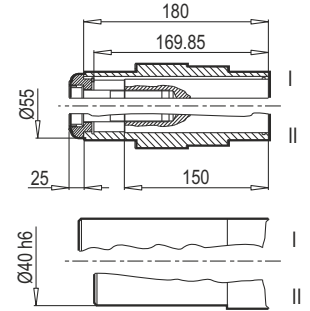
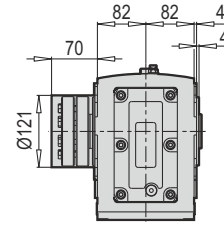
PKD 2390 DG/DIN 5480



PKD 2390 DG/KS



PKD 2390 DG/Ç



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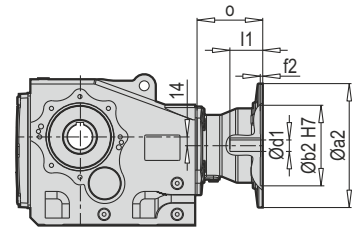
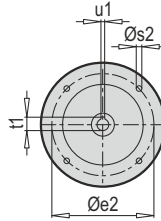
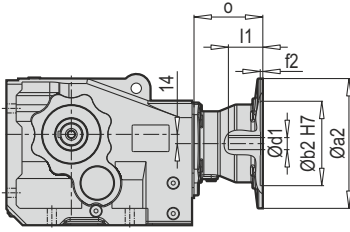
Konik sıkırtma / Shrink disc / Schrumpfscheibe				Alt köşe başlı civata / Hexagonal screw / Sechskantschraube DIN 931 / DIN 933* 10.9Vz		
Tip / Type / Typ	M _{amax} (Nm)	s ^{h6}	s ^{f6}	d _{xl}	Zs	MA (Nm)
KS 40/55	860	2.71	2.37	M8x40	8	30

	63 M	71 M	80 M	90 S/L	100 L	112 M		
g	124	140	172	182	202	220		
g1	111	119	131	130	153	159		
k1	491	533	559	625	676	671		
k1Bre	543	593	629	633	760	771		
o	198	240	266	332	383	378		

Not: (...) İşaretili olan ölçüler motor markasına göre farklılık gösterir. / Note: The dimensions which have (...) sign vary depending on the motor. / Hinweis: (...) Die gekennzeichneten Maße unterscheiden sich je nach Motormarke.

PKD 2390

IEC

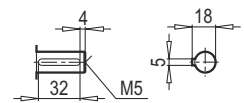
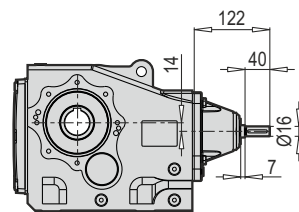
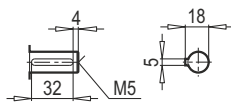
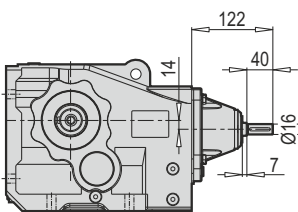


Tip / Type / Typ	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD 2390	63	140	95	115	3.5	M8	11	23	12.8	4	85
	71	160	110	130	4.0	M8	14	30	16.3	5	89
	80	200	130	165	4.0	M10	19	40	21.8	6	105
	90	200	130	165	4.0	M10	24	50	27.3	8	105
	100	250	180	215	5.0	M12	28	60	31.3	8	130
	112	250	180	215	5.0	M12	28	60	31.3	8	130

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

PKD 2390

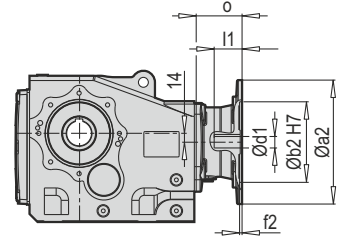
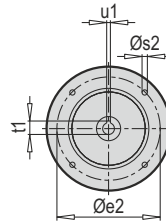
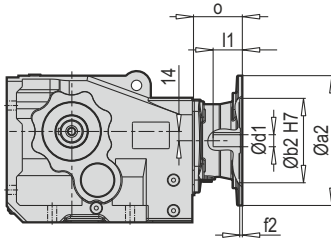
W



W ~ Kg	
PKD 2390	44

PKD 2390

PAM B5/B14



Tip / Type / Typ	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

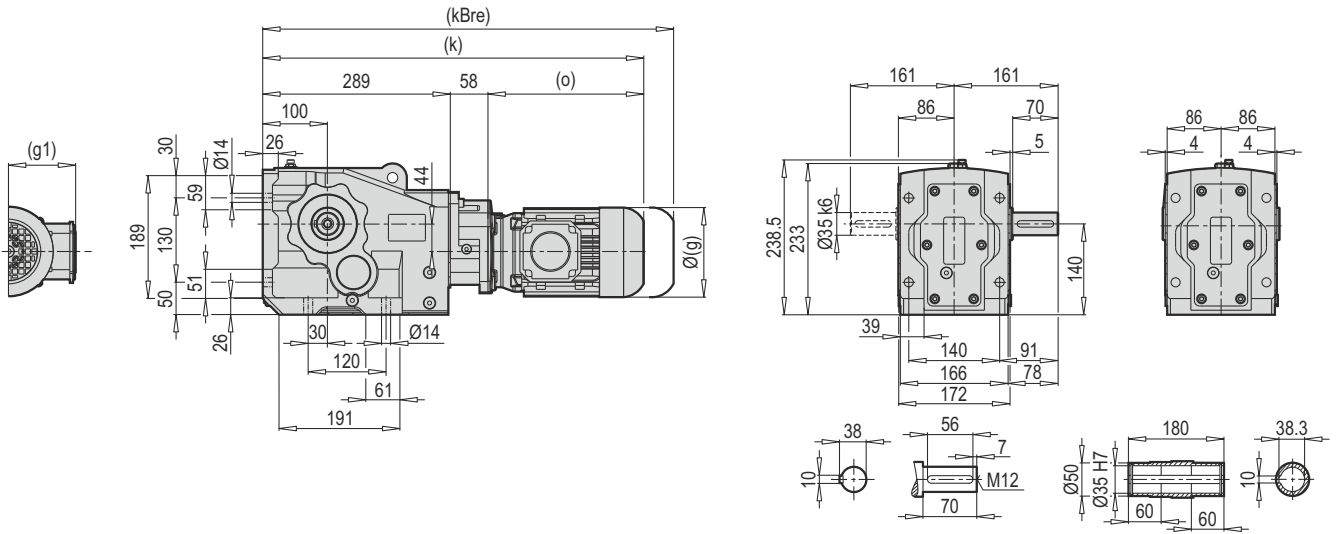
~ Kg	
PAM B5	PKD 2390
63	42
71	42
80	43
90	43
100	50
112	50

Tip / Type / Typ	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

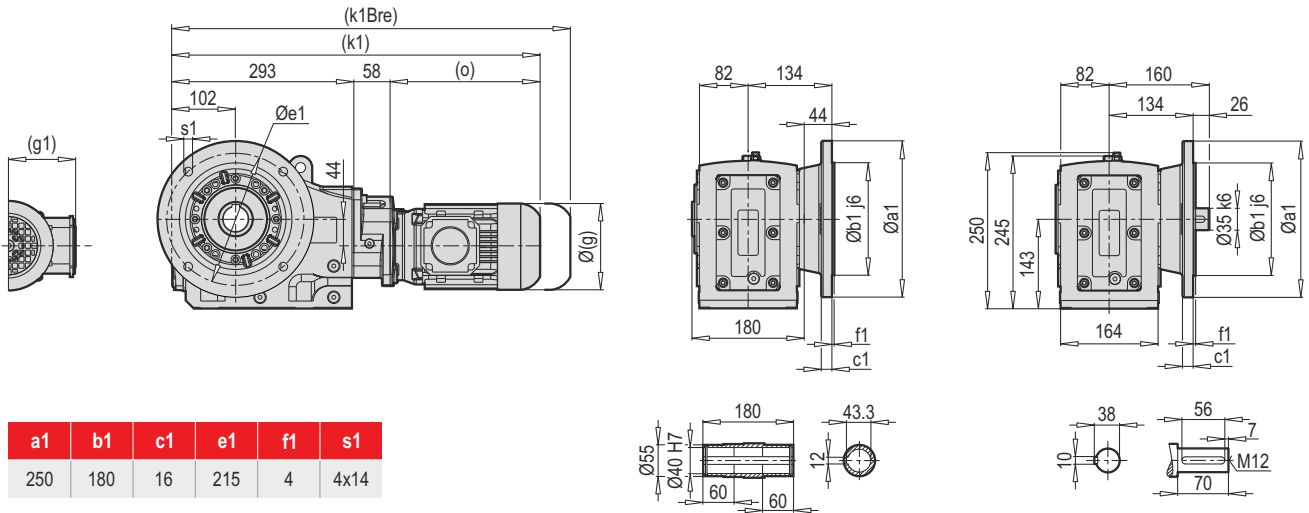
PKD 2490 TMA

PKD 2490 DA



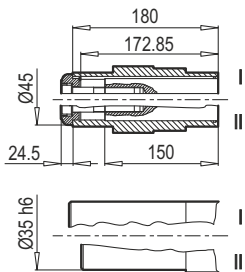
PKD 2490 DG/B5

PKD 2490 TMG/B5



PKD 2490 DA/Ç

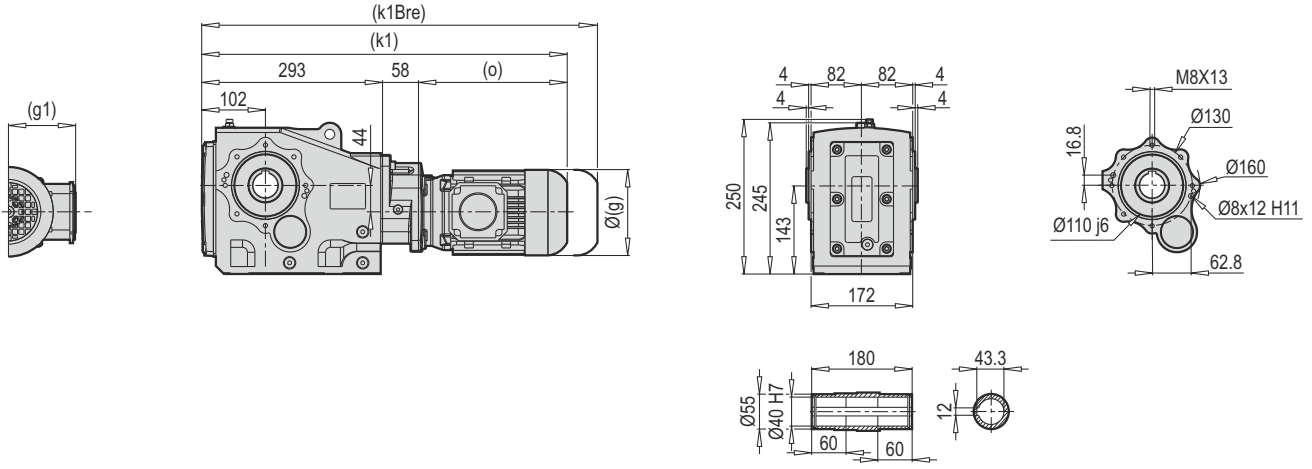
66-67



	63 M	71 M					
g	124	140					
g1	111	119					
k/k1	547/549	589/591					
kBre/k1Bre	599/601	649/651					
o	198	240					

Not: (...) İşaretili olan ölçüler motor markasına göre farklılık gösterir. / Note: The dimensions which have (...) sign vary depending on the motor. / Hinweis: (...) Die gekennzeichneten Maße unterscheiden sich je nach Motormarke.

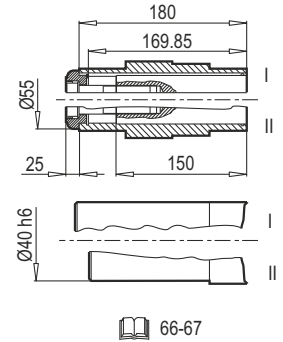
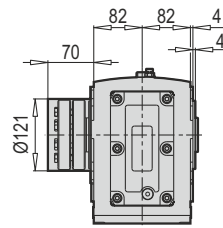
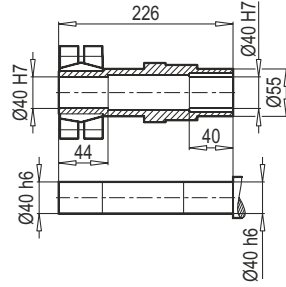
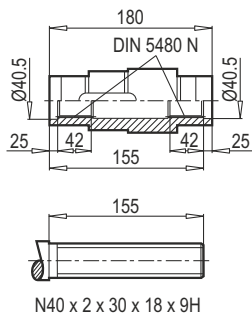
PKD 2490 DG/B14



PKD 2490 DG/DIN 5480

PKD 2490 DG/KS

PKD 2490 DG/Ç



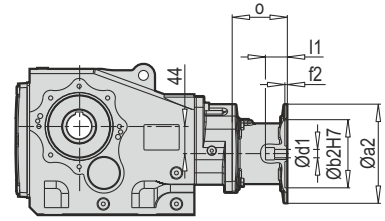
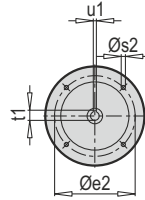
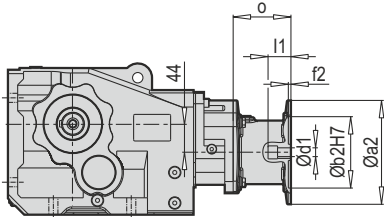
Konik sıkırtma / Shrink disc / Schrumpfscheibe				Altıköşe başlı civata / Hexagonal screw / Sechskantschraube DIN 931 / DIN 933* 10.9Vz		
Tip / Type / Typ	M _{amax} (Nm)	s ^{h6}	s ^{f6}	d _{xl}	Zs	MA (Nm)
KS 40/55	860	2.71	2.37	M8x40	8	30

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

Not: (...) İşaretili olan ölçüler motor markasına göre farklılık gösterir. / Note: The dimensions which have (...) sign vary depending on the motor. / Hinweis: (...) Die gekennzeichneten Maße unterscheiden sich je nach Motormarke.

PKD 2490

IEC

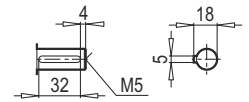
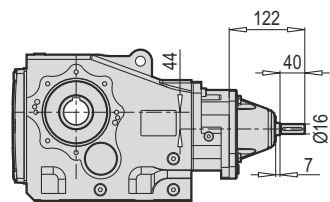
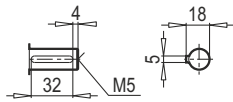
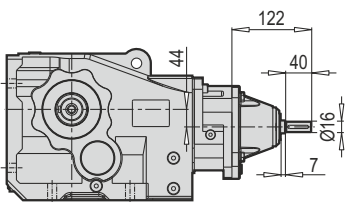


Tip / Type / Typ	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD 2490	63	140	95	115	3.5	M8	11	23	12.8	4	85
	71	160	110	130	4.0	M8	14	30	16.3	5	89

~ Kg	
IEC	PKD 2490
63	36
71	37

PKD 2490

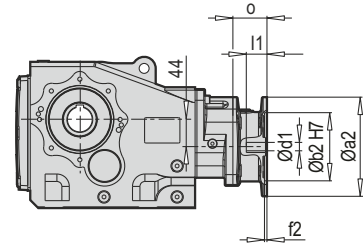
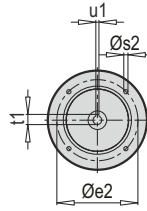
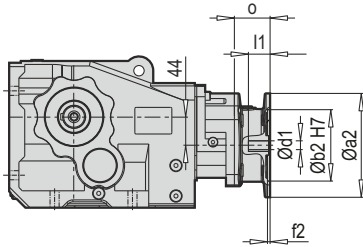
W



W ~ Kg	
PKD 2490	49

PKD 2490

PAM B5/B14



Tip / Type / Typ	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

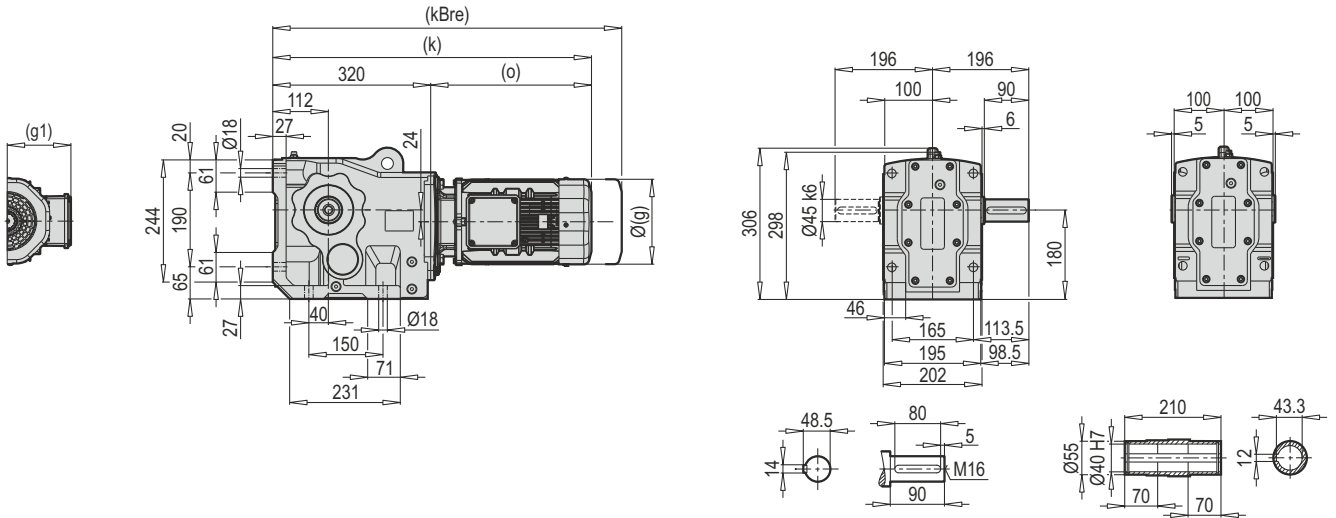
~ Kg	
PAM B5	PKD 2490
63	47
71	47

Tip / Type / Typ	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

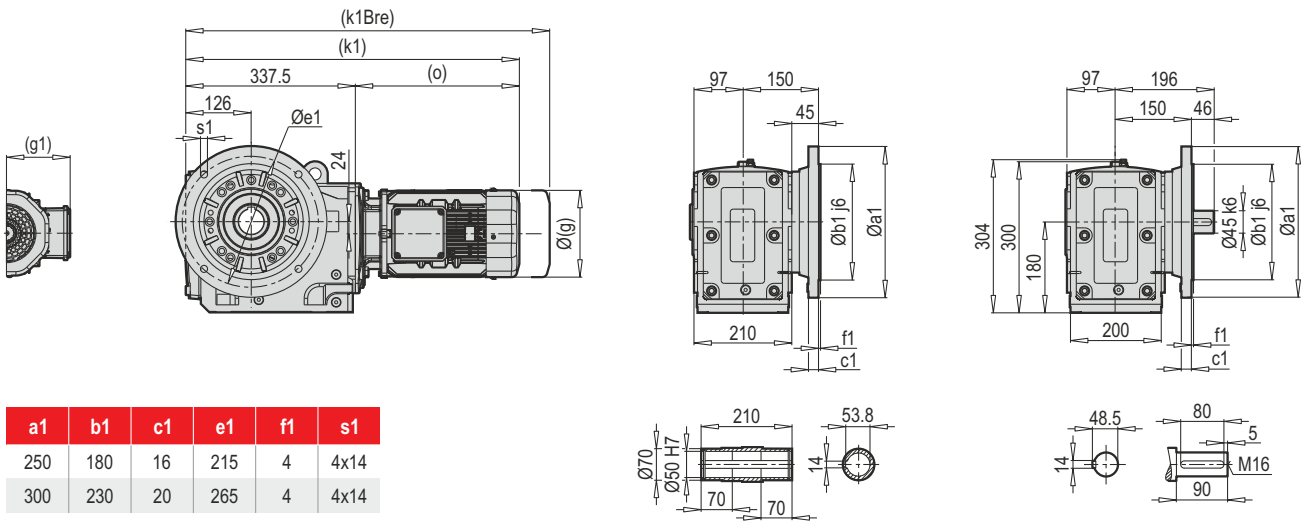
PKD 3390 TMA

PKD 3390 DA

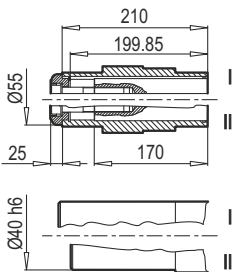


PKD 3390 DG/B5

PKD 3390 TMG/B5



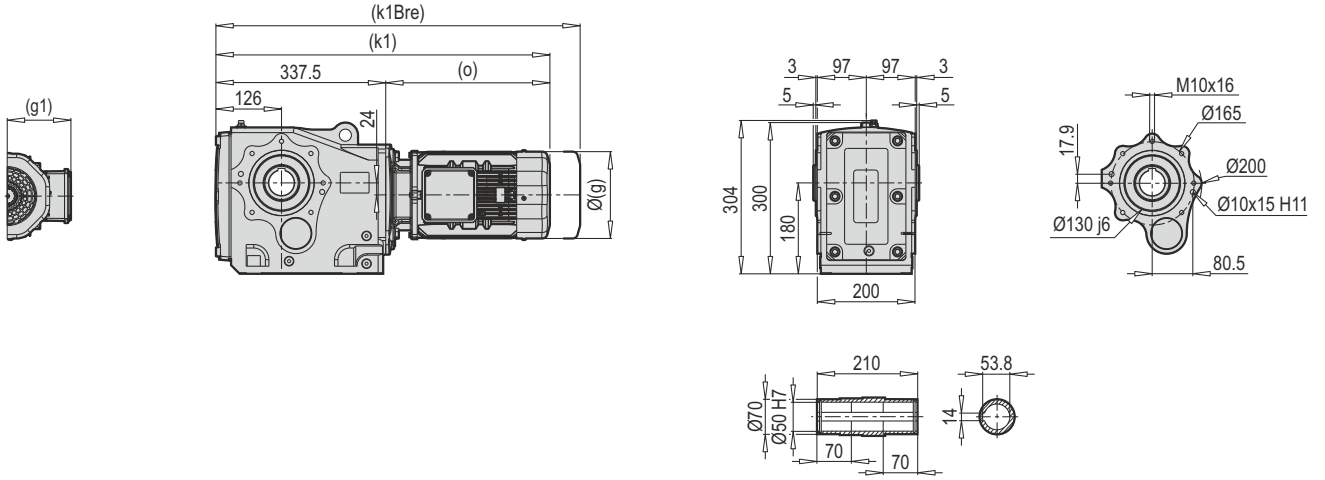
PKD 3390 DA/Ç



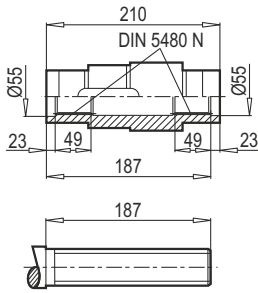
	71 M	80 M	90 S/L	100 L	112 M	132 S	132 M	
g	140	172	182	202	220	271	271	
g1	119	131	130	153	159	188	188	
k/k1	556/570	580/598	646/663	697/715	692/709	767/784	767/784	
kBre/k1Bre	616/630	650/668	714/732	781/799	792/809	866/884	894/911	
o	236	260	326	377	372	447	447	

Not: (...) işaretli olan ölçüler motor markasına göre farklılık gösterir. / Note: The dimensions which have (...) sign vary depending on the motor. / Hinweis: (...) Die gekennzeichneten Maße unterscheiden sich je nach Motormarke.

PKD 3390 **DG/B14**

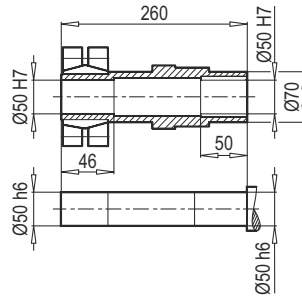


PKD 3390 **DG/DIN 5480**

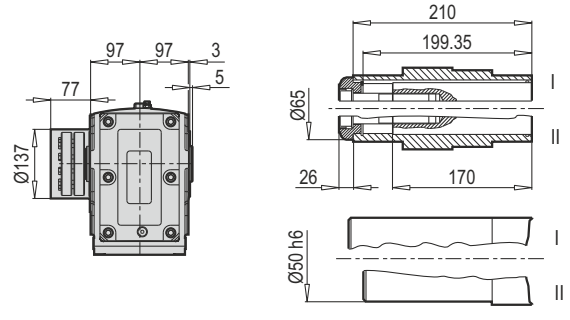


N50 x 2 x 30 x 24 x 9H

PKD 3390 **DG/KS**



PKD 3390 **DG/Ç**



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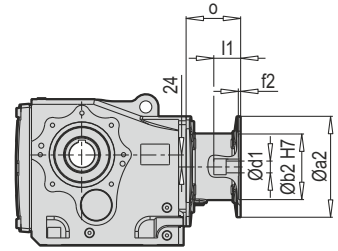
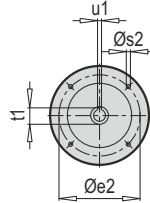
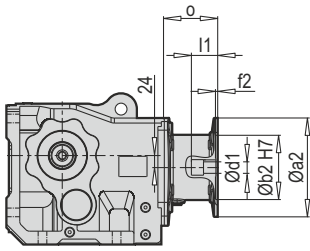
Konik sıkırtma / Shrink disc / Schrumpfscheibe				Altıköşe başlı civata / Hexagonal screw / Sechskantschraube DIN 931 / DIN 933* 10.9Vz		
Tip / Type / Typ	M _{amax} (Nm)	s ^{h6}	s ^{f6}	dxl	Zs	MA (Nm)
KS 50/62	1550	2.83	2.63	M8x40	10	30

	71 M	80 M	90 S/L	100 L	112 M	132 S	132 M	
g	140	172	182	202	220	271	271	
g1	119	131	130	153	159	188	188	
k1	570	598	663	715	709	784	784	
k1Bre	630	668	732	799	809	884	911	
o	236	260	326	377	372	447	447	

Not: (...) İşaretili olan ölçüler motor markasına göre farklılık gösterir. / Note: The dimensions which have (...) sign vary depending on the motor. / Hinweis: (...) Die gekennzeichneten Maße unterscheiden sich je nach Motormarke.

PKD 3390

IEC

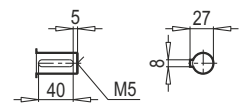
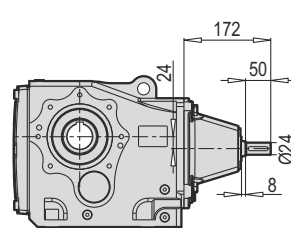
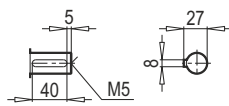
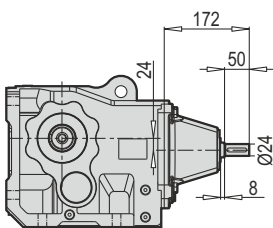


Tip / Type / Typ	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD 3390	71	160	110	130	4.0	M8	14	30	16.3	5	88
	80	200	130	165	4.0	M10	19	40	21.8	6	107
	90	200	130	165	4.0	M10	24	50	27.3	8	107
	100	250	180	215	5.0	M12	28	60	31.3	8	124
	112	250	180	215	5.0	M12	28	60	31.3	8	124
	132	300	230	265	5.0	M12	38	80	41.3	10	156

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

PKD 3390

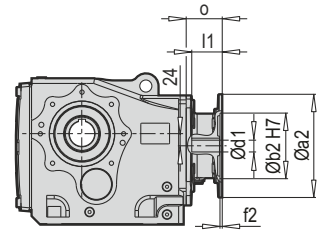
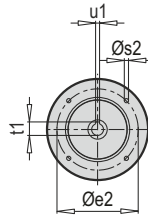
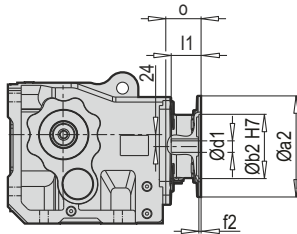
W



W ~ Kg	
PKD 3390	71

PKD 3390

PAM B5/B14



Tip / Type / Typ	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

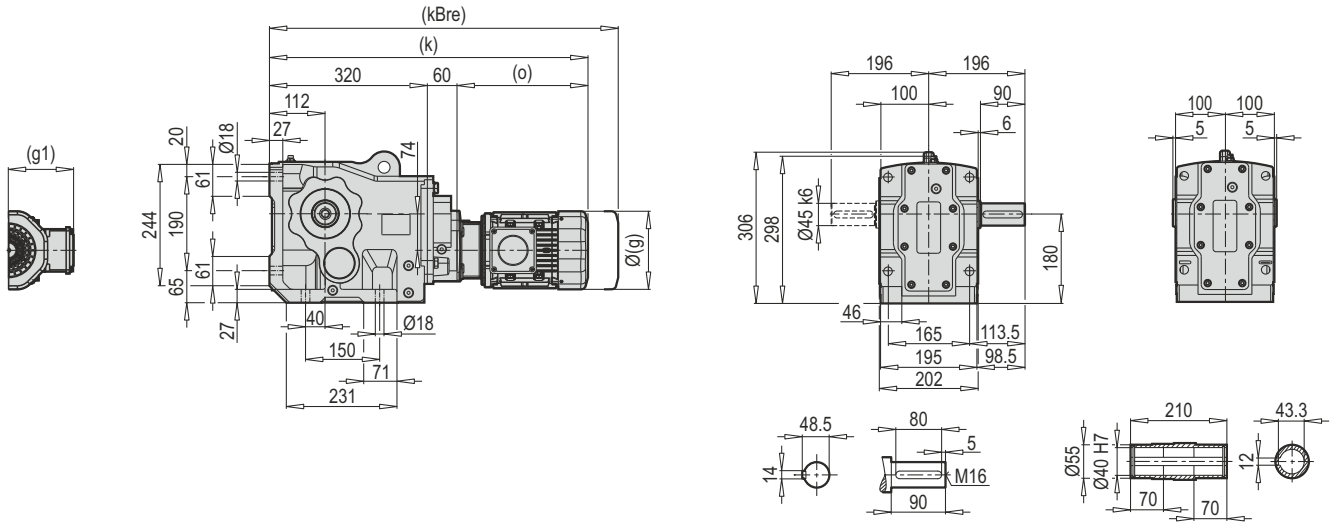
~ Kg	
PAM B5	PKD 3390
71	65
80	66
90	66
100	67
112	67
132	77

Tip / Type / Typ	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

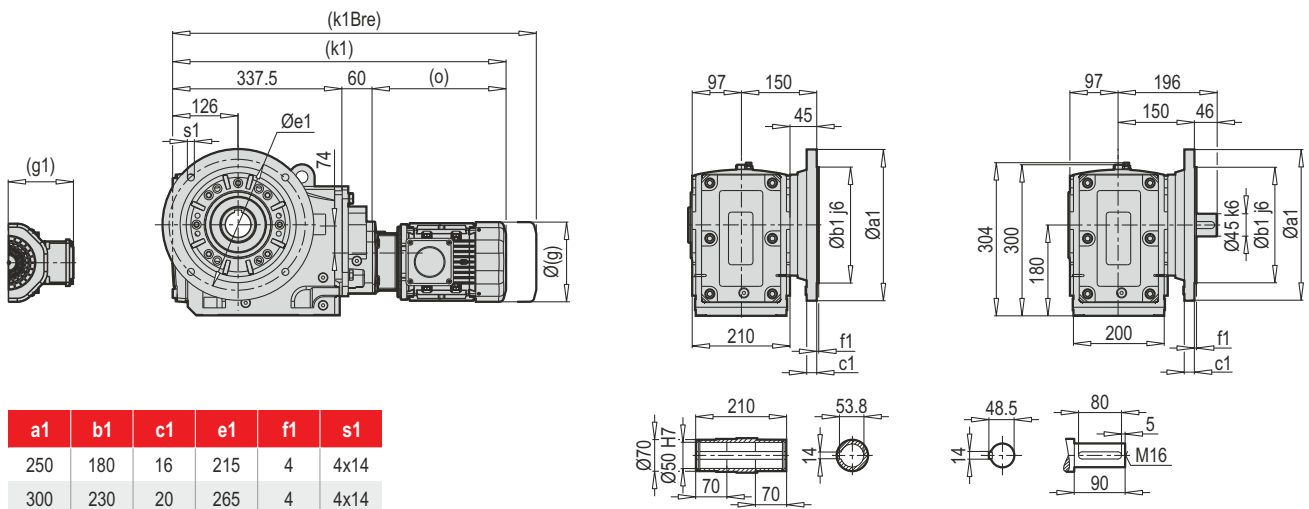
PKD 3490 TMA

PKD 3490 DA



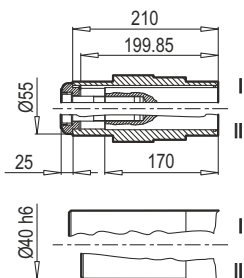
PKD 3490 DG/B5

PKD 3490 TMG/B5



PKD 3490 DA/Ç

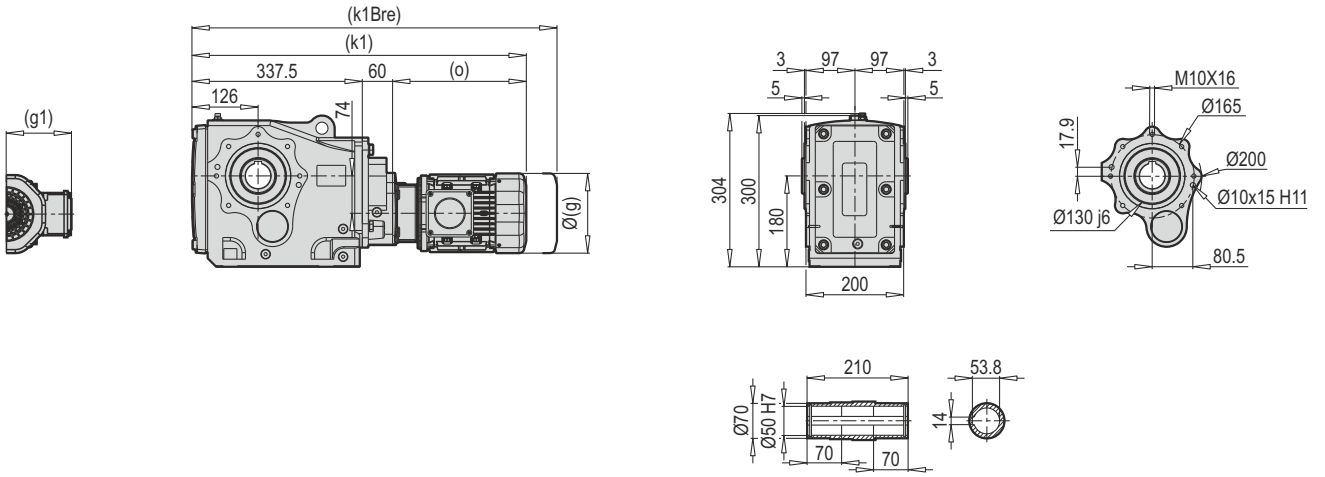
66-67



	63 M	71 M	80 M	90 S/L			
g	124	140	172	182			
g1	111	119	131	130			
k/k1	578/592	620/634	580/598	646/663			
kBre/k1Bre	630/644	680/694	650/668	714/732			
o	198	240	260	326			

Not: (...) İşaretili olan ölçüler motor markasına göre farklılık gösterir. / Note: The dimensions which have (...) sign vary depending on the motor. / Hinweis: (...) Die gekennzeichneten Maße unterscheiden sich je nach Motormarke.

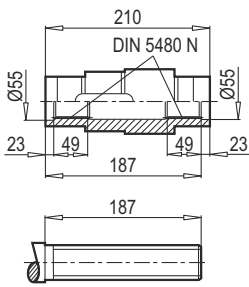
PKD 3490 DG/B14



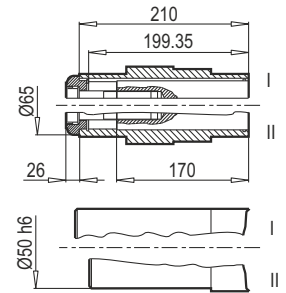
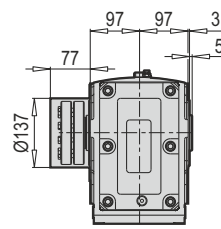
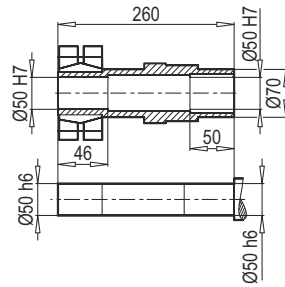
PKD 3490 DG/DIN 5480

PKD 3490 DG/KS

PKD 3490 DG/Ç



N50 x 2 x 30 x 24 x 9H



66-67

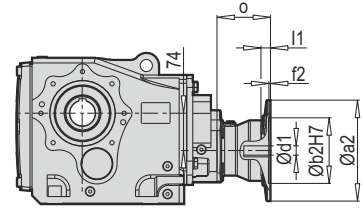
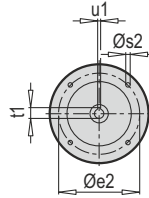
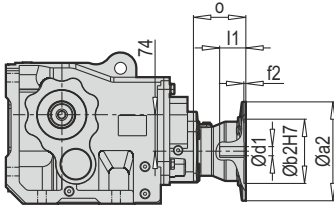
Konik sıkırtma / Shrink disc / Schrumpfscheibe				Altıköşe başlı cıvata / Hexagonal screw / Sechskantschraube DIN 931 / DIN 933* 10.9Vz		
Tip / Type / Typ	M _{amax} (Nm)	s ^{h6}	s ^{f6}	dxl	Zs	MA (Nm)
KS 50/62	1550	2.83	2.63	M8x40	10	30

	63 M	71 M	80 M	90 S/L				
g	124	140	172	182				
g1	111	119	131	130				
k1	592	634	598	663				
k1Bre	644	694	668	732				
o	198	240	260	326				

Not: (...) İşaretili olan ölçüler motor markasına göre farklılık gösterir. / Note: The dimensions which have (...) sign vary depending on the motor. / Hinweis: (...) Die gekennzeichneten Maße unterscheiden sich je nach Motormarke.

PKD 3490

IEC

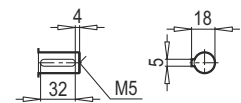
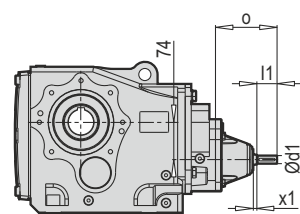
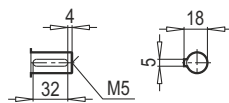
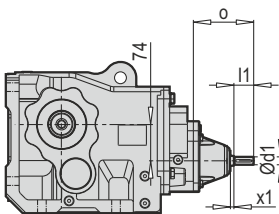


Tip / Type / Typ	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD 3490	63	140	95	115	3.5	M8	11	23	12.8	4	85
	71	160	110	130	4.0	M8	14	30	16.3	5	89
	80	200	130	165	4.0	M10	19	40	21.8	6	105
	90	200	130	165	4.0	M10	24	50	27.3	8	105

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

PKD 3490

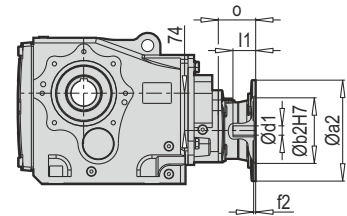
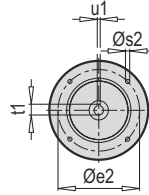
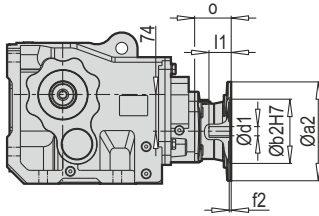
W



W ~ Kg	
PKD 3490	73

PKD 3490

PAM B5/B14



Tip / Type / Typ	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

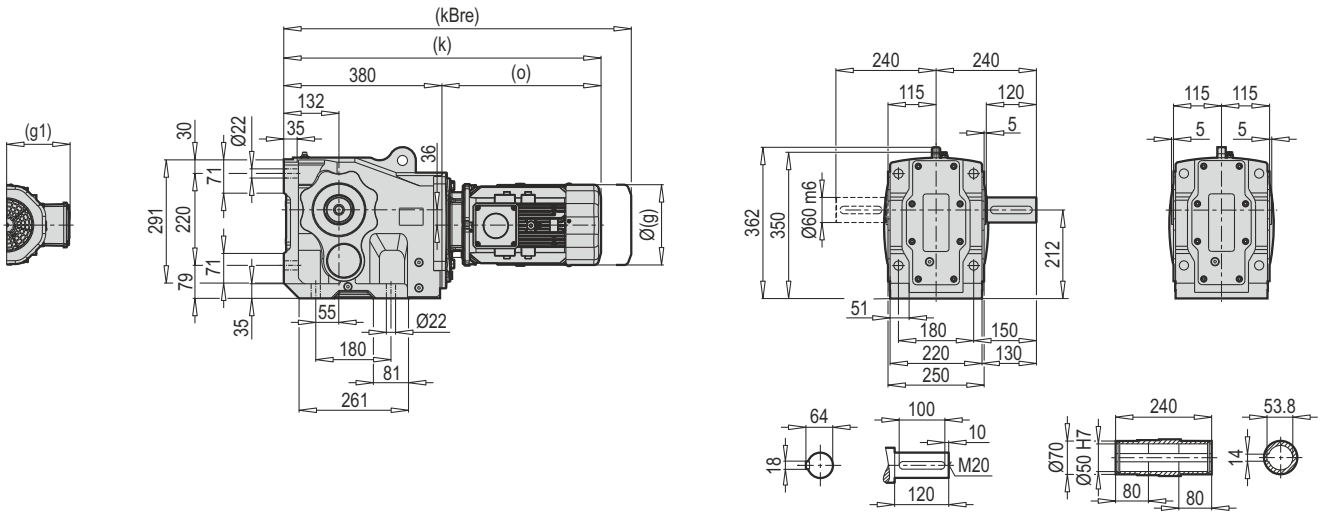
~ Kg	
PAM B5	PKD 3490
63	70
71	70
80	71
90	71

Tip / Type / Typ	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

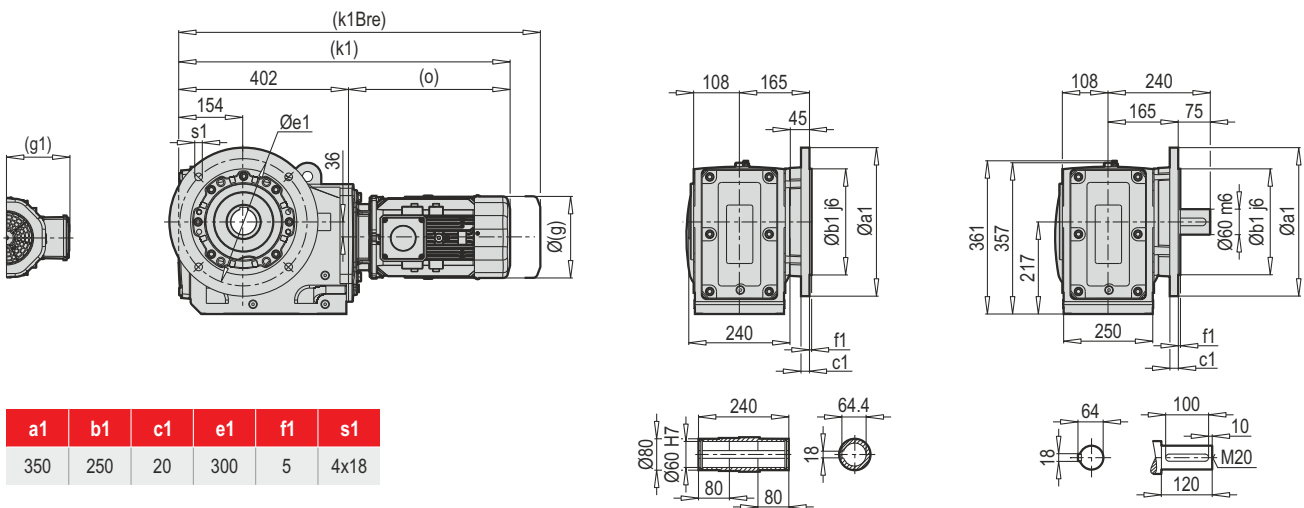
PKD 4390 TMA

PKD 4390 DA



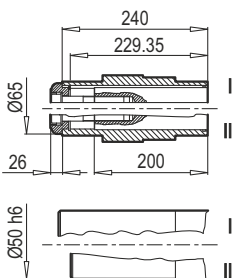
PKD 4390 DG/B5

PKD 4390 TMG/B5



PKD 4390 DA/Ç

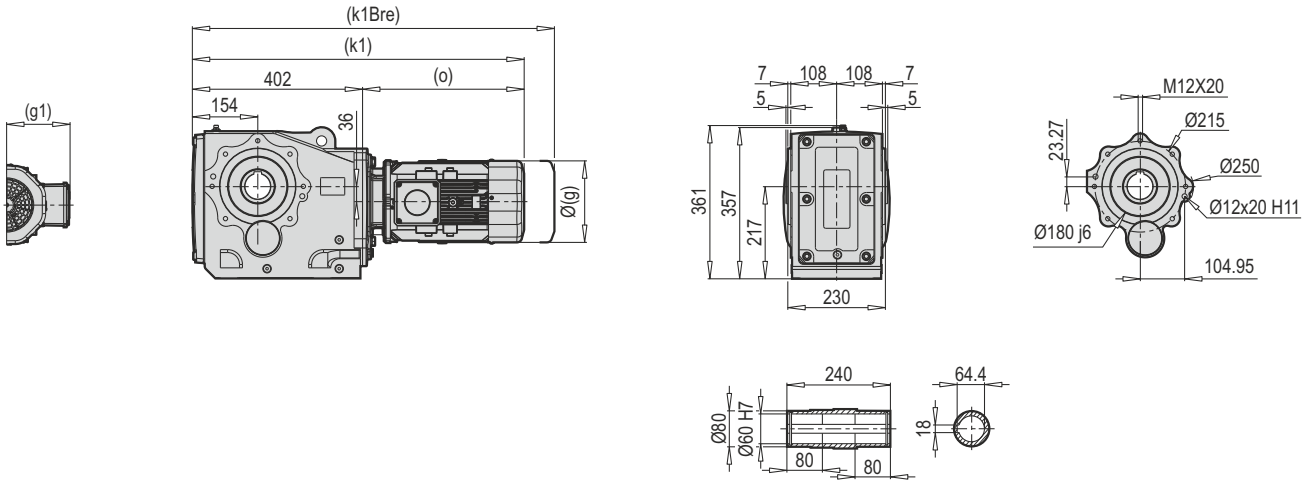
66-67



	90 S/L	100 L	112 M	132 S	132 M	160 M/L		
g	182	202	220	271	271	322		
g1	130	153	159	188	188	214		
k/k1	710/732	761/783	760/782	822/844	822/844	910/932		
kBre/k1Bre	778/800	845/867	860/882	921/943	941/963	1015/1037		
o	330	381	380	442	442	530		

Not: (...) işaretli olan ölçüler motor markasına göre farklılık gösterir. / Note: The dimensions which have (...) sign vary depending on the motor. / Hinweis: (...) Die gekennzeichneten Maße unterscheiden sich je nach Motormarke.

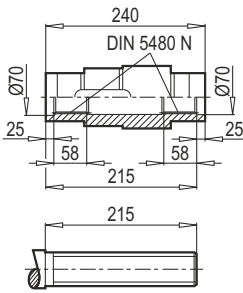
PKD 4390 DG/B14



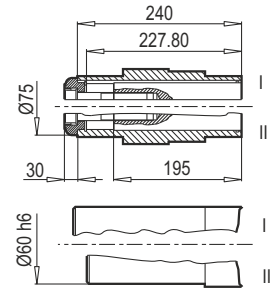
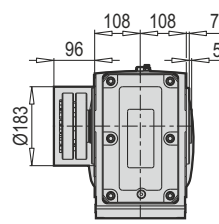
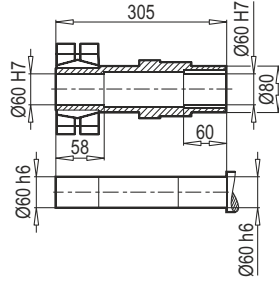
PKD 4390 DG/DIN 5480

PKD 4390 DG/KS

PKD 4390 DG/Ç



N65 x 2 x 30 x 31 x 9H



66-67

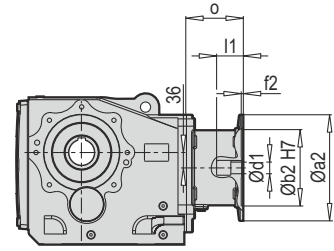
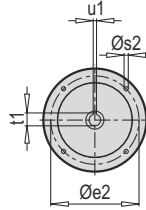
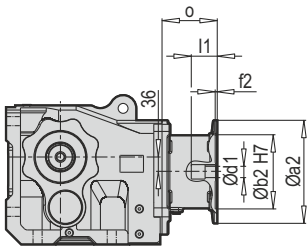
Konik sıkırtma / Shrink disc / Schrumpfscheibe				Altıköşe başlı cıvata / Hexagonal screw / Sechskantschraube DIN 931 / DIN 933* 10.9Vz		
Tip / Type / Typ	M _{amax} (Nm)	s ^{h6}	s ^{f6}	dxl	Zs	MA (Nm)
KS 60/76	2800	2.90	2.69	M10x50	10	59

	90 S/L	100 L	112 M	132 S	132 M	160 M/L		
g	182	202	220	271	271	322		
g1	130	153	159	188	188	214		
k1	732	783	782	844	844	932		
k1Bre	800	867	882	943	963	1037		
o	330	381	380	442	442	530		

Not: (...) İşaretili olan ölçüler motor markasına göre farklılık gösterir. / Note: The dimensions which have (...) sign vary depending on the motor. / Hinweis: (...) Die gekennzeichneten Maße unterscheiden sich je nach Motormarke.

PKD 4390

IEC

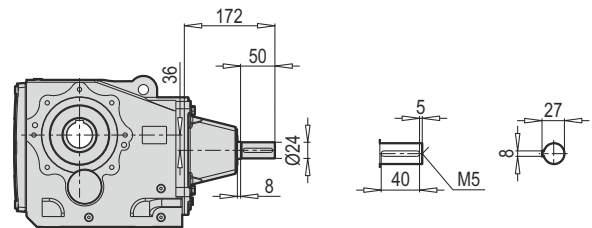
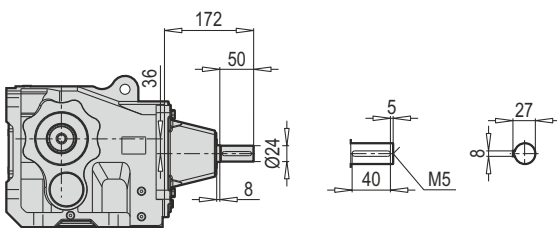


Tip / Type / Typ	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD 4390	90	200	130	165	4.0	M10	24	50	27.3	8	109
	100	250	180	215	5.0	M12	28	60	31.3	8	133
	112	250	180	215	5.0	M12	28	60	31.3	8	133
	132	300	230	265	5.0	M12	38	80	41.3	10	190
	160	350	250	300	6.0	M16	42	110	45.3	12	194

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

PKD 4390

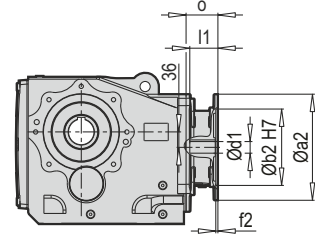
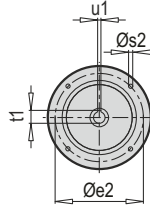
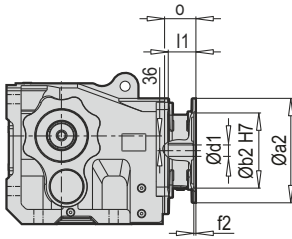
W



W ~ Kg	
PKD 4390	131
PKD 4390	131

PKD 4390

PAM B5/B14



Tip / Type / Typ	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

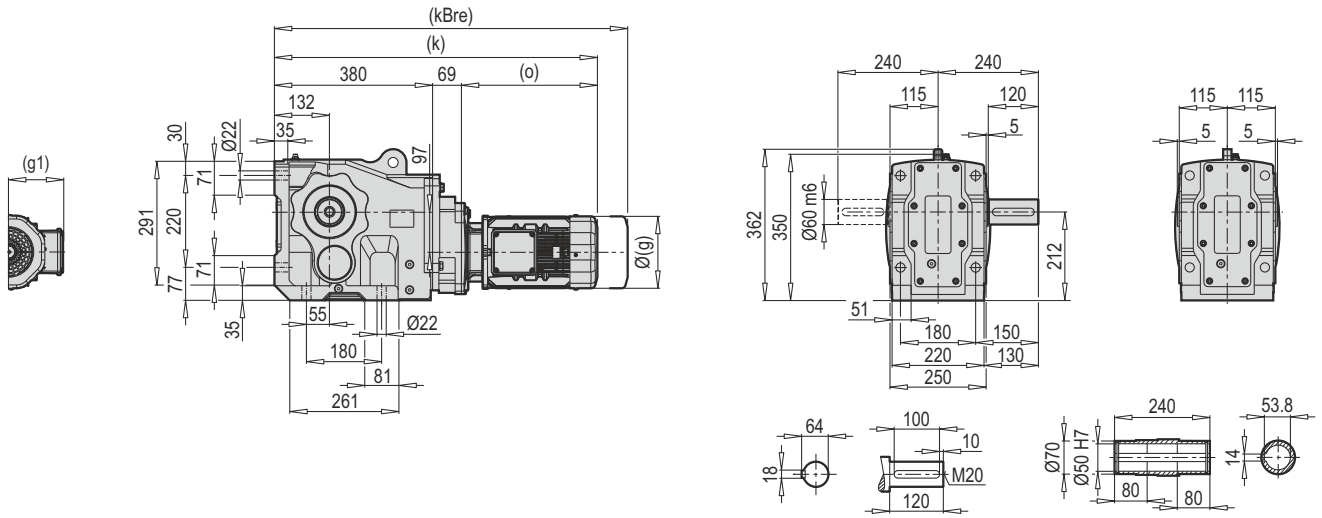
~ Kg	
PAM B5	PKD 4390
90	116
100	117
112	117
132	126
160	134

Tip / Type / Typ	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

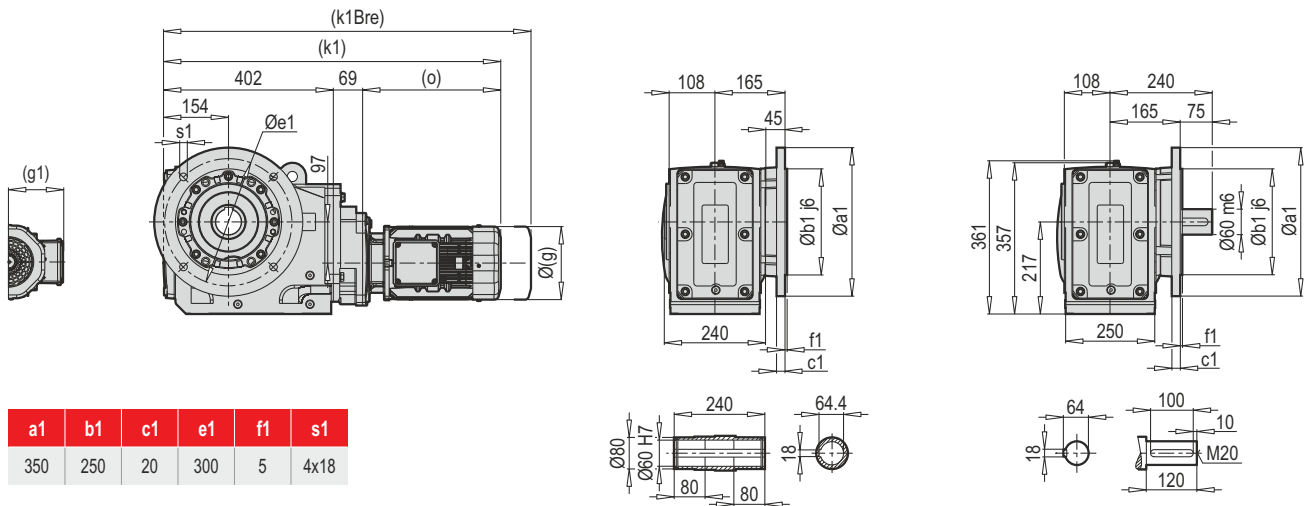
PKD 4490 TMA

PKD 4490 DA



PKD 4490 DG/B5

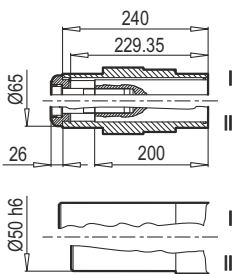
PKD 4490 TMG/B5



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

PKD 4490 DA/Ç

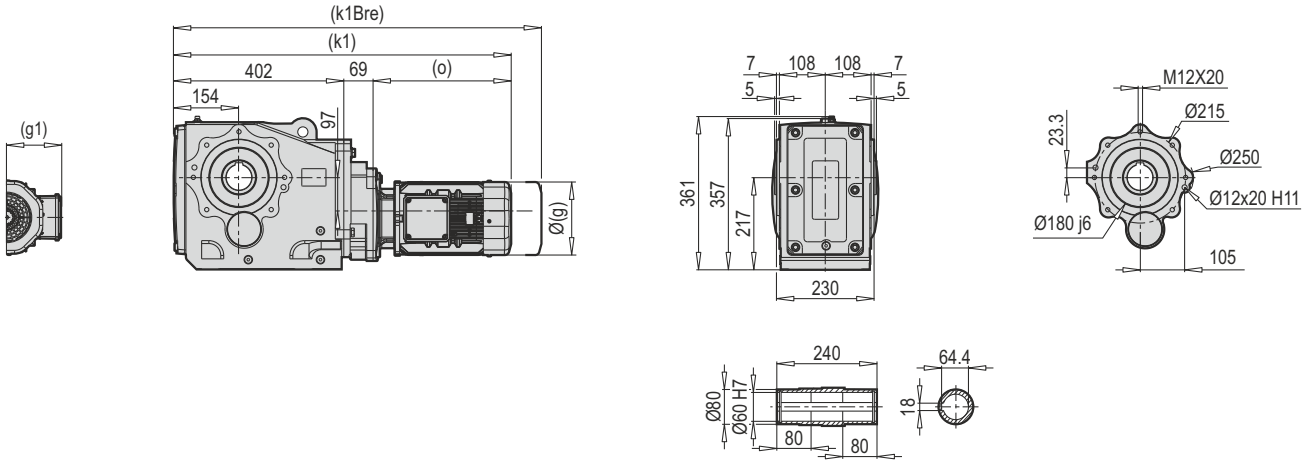
66-67



	71 M	80 M	90 S/L	100 L	112 M	
g	140	159	182	202	220	
g1	119	127	130	153	159	
k/k1	685/707	711/733	710/732	761/783	752/776	
kBre/k1Bre	745/767	773/795	778/800	745/867	852/874	
o	236	262	330	381	372	

Not: (...) İşaretili olan ölçüler motor markasına göre farklılık gösterir. / Note: The dimensions which have (...) sign vary depending on the motor. / Hinweis: (...) Die gekennzeichneten Maße unterscheiden sich je nach Motormarke.

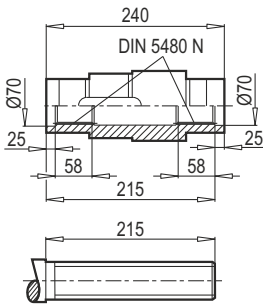
PKD 4490 DG / B14



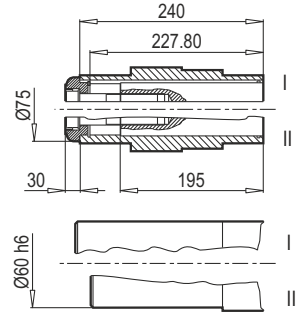
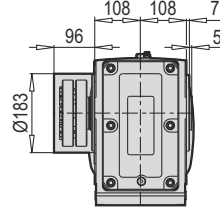
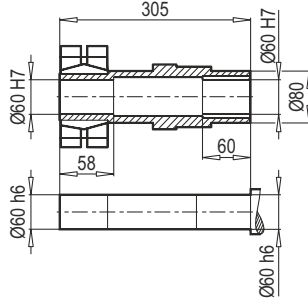
PKD 4490 DG/DIN 5480

PKD 4490 DG/KS

PKD 4490 DG/Ç



N65 x 2 x 30 x 31 x 9H



66-67

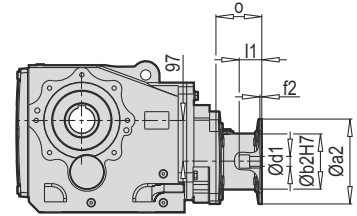
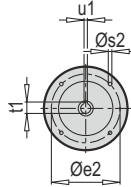
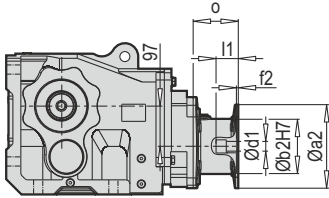
Konik sıkırtma / Shrink disc / Schrumpfscheibe				Altıköşe başlı civata / Hexagonal screw / Sechskantschraube DIN 931 / DIN 933* 10.9Vz		
Tip / Type / Typ	M _{amax} (Nm)	s ^{h6}	s ^{f6}	dxl	Zs	MA (Nm)
KS 60/76	2800	2.90	2.69	M10x50	10	59

	71 M	80 M	90 S/L	100 L	112 M			
g	140	159	182	202	220			
g1	119	127	130	153	159			
k1	707	733	732	783	776			
k1Bre	767	795	800	867	874			
o	236	262	330	381	372			

Not: (...) İşaretili olan ölçüler motor markasına göre farklılık gösterir. / Note: The dimensions which have (...) sign vary depending on the motor. / Hinweis: (...) Die gekennzeichneten Maße unterscheiden sich je nach Motormarke.

PKD 4490

IEC

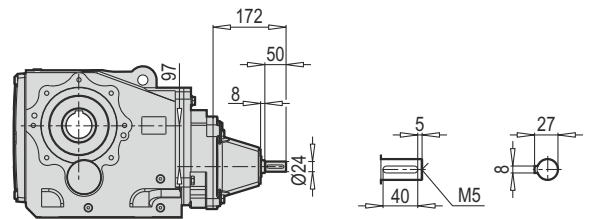
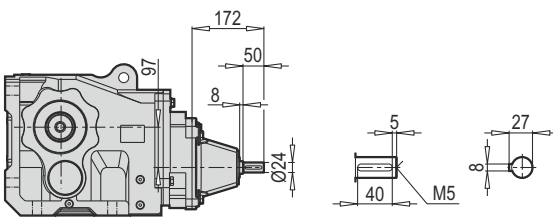


Tip / Type / Typ	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD 4490	71	160	110	130	4.0	M8	14	30	16.3	5	89
	80	200	130	165	4.0	M10	19	40	21.8	6	107
	90	200	130	165	4.0	M10	24	50	27.3	8	107
	100	250	180	215	5.0	M12	28	60	31.3	8	124
	112	250	180	215	5.0	M12	28	60	31.3	8	124

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

PKD 4490

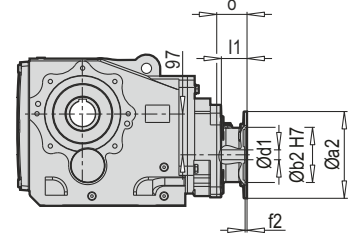
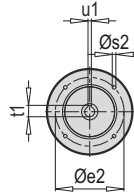
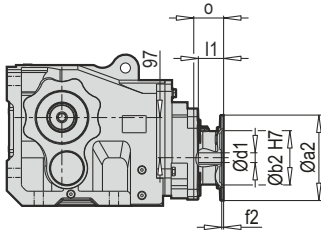
W



W ~ Kg	
PKD 4490	137

PKD 4490

PAM B5/B14



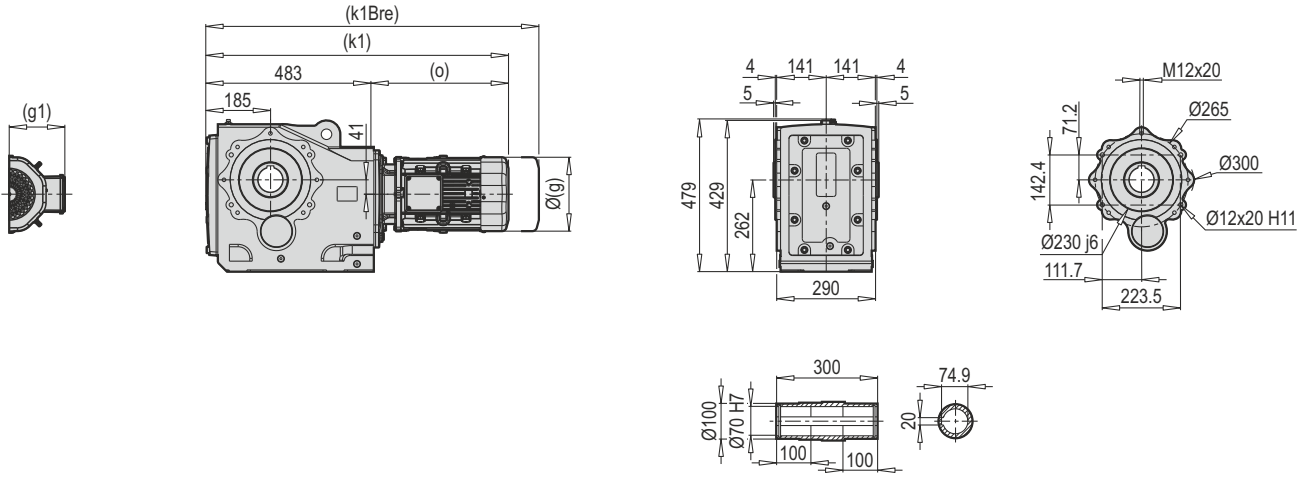
Tip / Type / Typ	PAM B5	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD 4490	71	160	110	130	4.0	M8	14	30	16.3	5	88
	80	200	130	165	4.0	M10	19	40	21.8	6	72
	90	200	130	165	4.0	M10	24	50	27.3	8	72
	100	250	180	215	5.0	M12	28	60	31.3	8	75
	112	250	180	215	5.0	M12	28	60	31.3	8	75

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

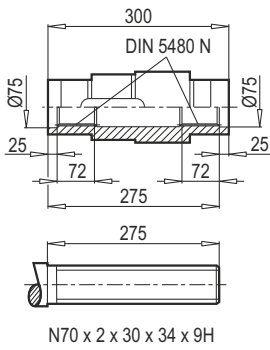
Tip / Type / Typ	PAM B14	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD 4490	71	105	70	85	4.0	7	14	30	16.3	5	88
	80	120	80	100	4.0	7	19	40	21.8	6	72
	90	140	95	115	4.0	9	24	50	27.3	8	72
	100	160	110	130	5.0	9	28	60	31.3	8	75
	112	160	110	130	5.0	9	28	60	31.3	8	75

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

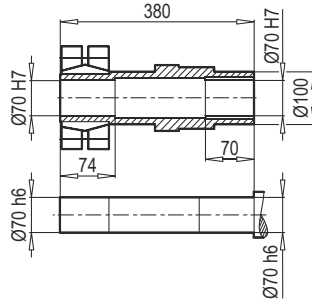
PKD 5390 DG/B14



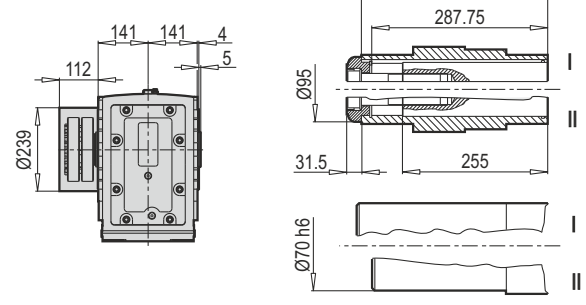
PKD 5390 DG/DIN 5480



PKD 5390 DG/KS



PKD 5390 DG/Ç



66-67

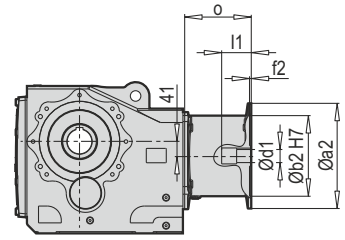
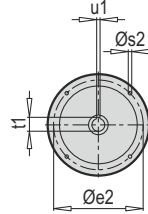
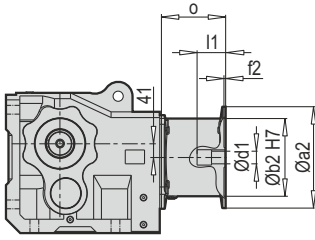
Konik sıkırtma / Shrink disc / Schrumpfscheibe				Alt köşe başlı civata / Hexagonal screw / Sechskantschraube DIN 931 / DIN 933* 10.9Vz		
Tip / Type / Typ	M _{amax} (Nm)	s ^{h6}	s ^{f6}	d _{xl}	Zs	MA (Nm)
KS 70/90	4800	2.87	2.69	M12x70*	10	100

	90 S/L	100 L	112 M	132 S	132 M	160 M/L	180 M/L	
g	182	202	220	271	271	322	363	
g1	130	153	159	188	188	214	249	
k1	813	864	863	925	925	1013	1107	
k1Bre	881	948	963	1024	1044	1118	1208	
o	330	381	380	442	442	530	624	

Not: (...) İşaretili olan ölçüler motor markasına göre farklılık gösterir. / Note: The dimensions which have (...) sign vary depending on the motor. / Hinweis: (...) Die gekennzeichneten Maße unterscheiden sich je nach Motormarke.

PKD 5390

IEC

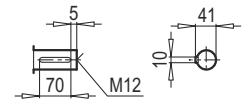
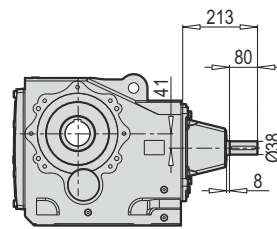
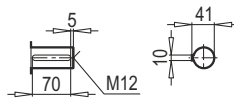
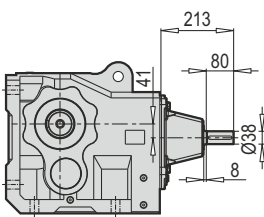


Tip / Type / Typ	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD 5390	90	200	130	165	4.0	M10	24	50	27.3	8	109
	100	250	180	215	5.0	M12	28	60	31.3	8	133
	112	250	180	215	5.0	M12	28	60	31.3	8	133
	132	300	230	265	5.0	M12	38	80	41.3	10	190
	160	350	250	300	6.0	M16	42	110	45.3	12	194
	180	350	250	300	6.0	M16	48	110	51.8	14	194

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

PKD 5390

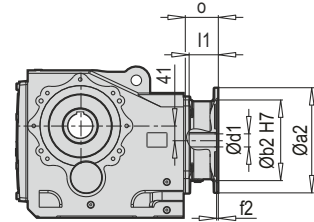
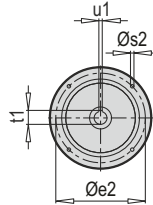
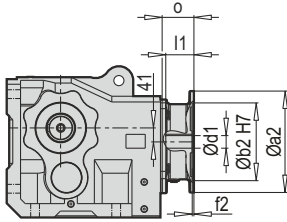
W



W ~ Kg	
PKD 5390	210

PKD 5390

PAM B5/B14



Tip / Type / Typ	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

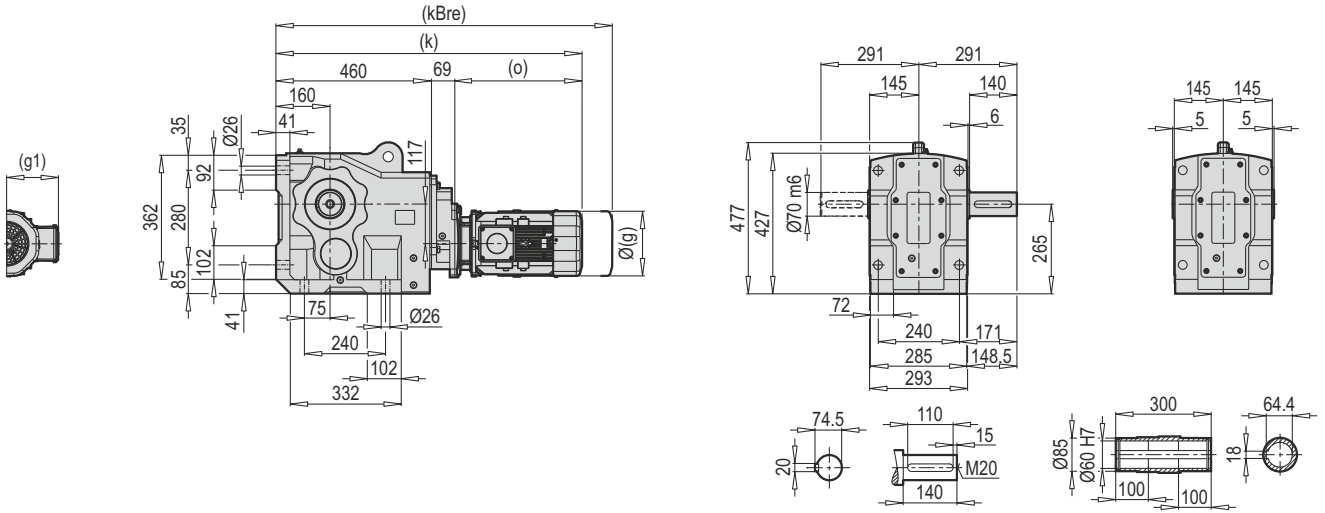
~ Kg	
PAM B5	PKD 5390
90	191
100	192
112	192
132	201
160	209
180	209

Tip / Type / Typ	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

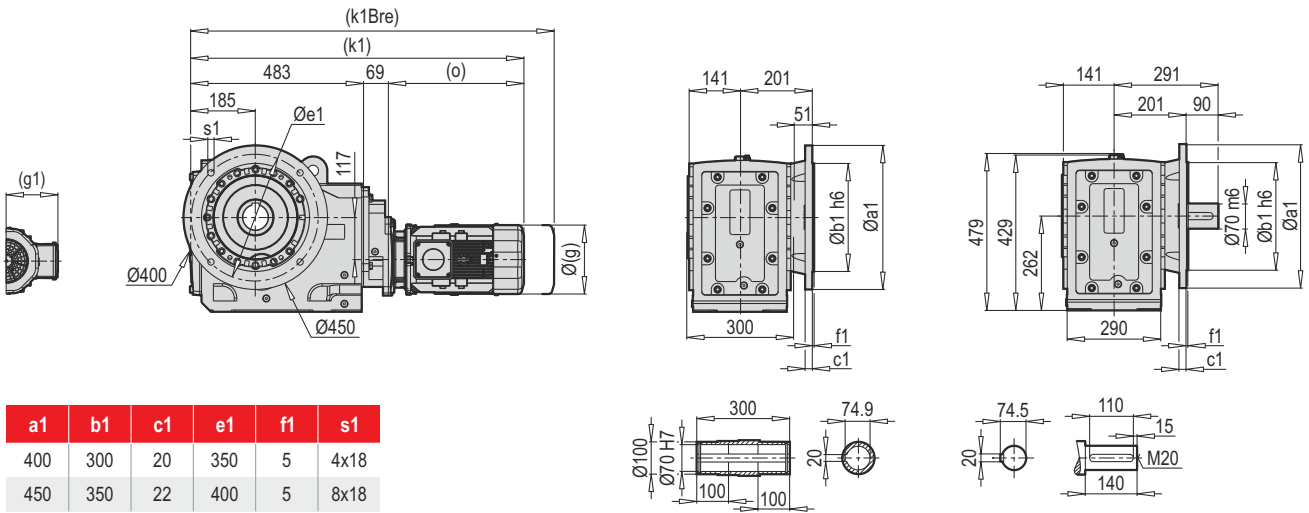
PKD 5490 TMA

PKD 5490 DA



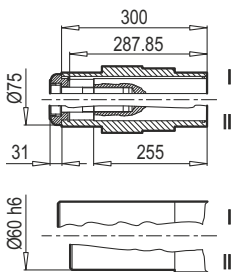
PKD 5490 DG/B5

PKD 5490 TMG/B5



PKD 5490 DA/Ç

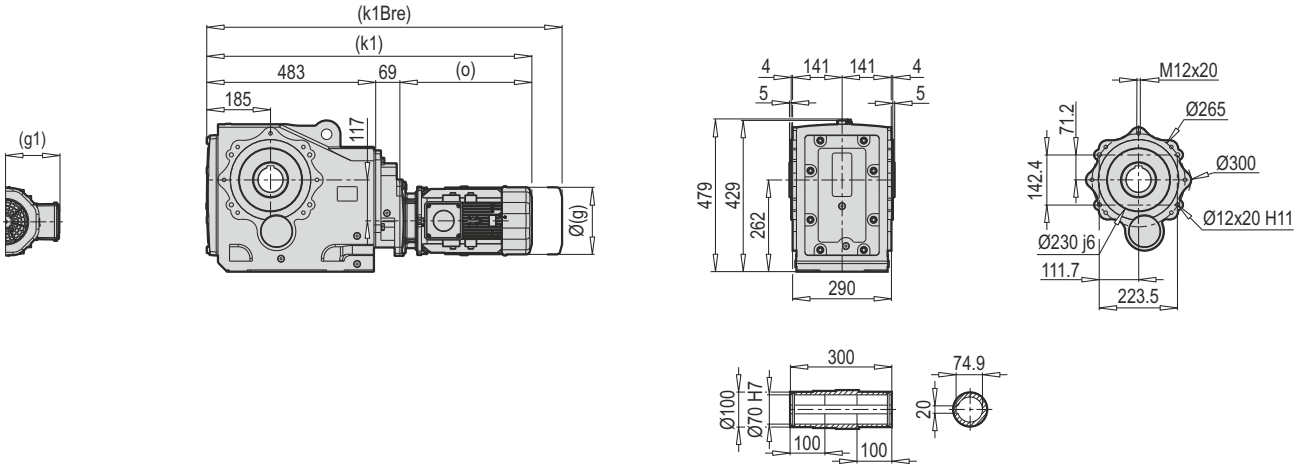
66-67



	71 M	80 M	90 S/L	100 L	112 M			
g	140	172	182	202	220			
g1	119	131	130	153	159			
k/k1	767/790	789/812	855/878	906/929	901/924			
kBre/k1Bre	827/850	859/882	923/946	990/1013	1001/1024			
o	236	260	326	377	372			

Not: (...) İşaretili olan ölçüler motor markasına göre farklılık gösterir. / Note: The dimensions which have (...) sign vary depending on the motor. / Hinweis: (...) Die gekennzeichneten Maße unterscheiden sich je nach Motormarke.

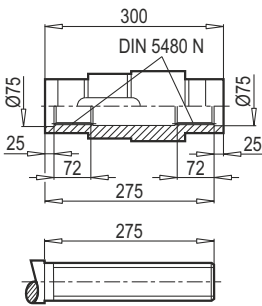
PKD 5490 DG/B14



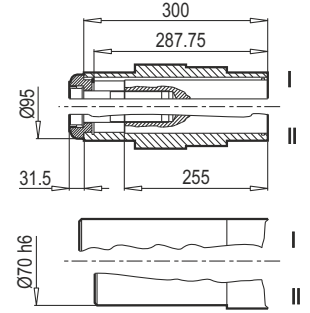
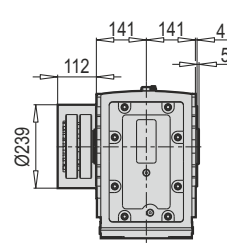
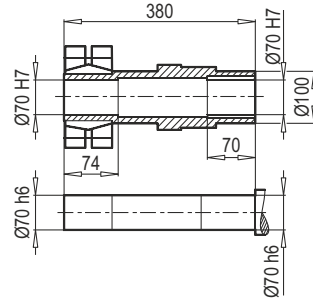
PKD 5490 DG/DIN 5480

PKD 5490 DG/KS

PKD 5490 DG/Ç



N70 x 2 x 30 x 34 x 9H



66-67

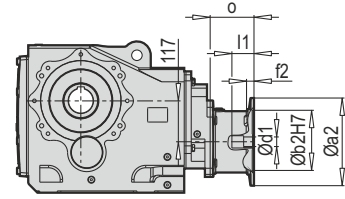
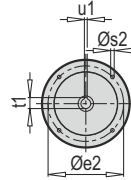
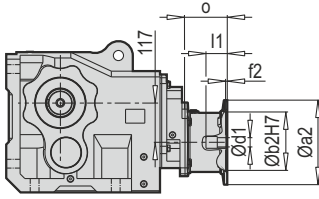
Konik sıkırtma / Shrink disc / Schrumpfscheibe				Altıköşe başlı civata / Hexagonal screw / Sechskantschraube DIN 931 / DIN 933* 10.9Vz		
Tip / Type / Typ	M _{amax} (Nm)	s ^{h6}	s ^{f6}	d _{xl}	Zs	MA (Nm)
KS 70/90	4800	2.87	2.69	M12x70*	10	100

	71 M	80 M	90 S/L	100 L	112 M			
g	140	172	182	202	220			
g1	119	131	130	153	159			
k1	790	812	878	929	924			
k1Bre	850	882	946	1013	1024			
o	236	260	326	377	372			

Not: (...) İşaretili olan ölçüler motor markasına göre farklılık gösterir. / Note: The dimensions which have (...) sign vary depending on the motor. / Hinweis: (...) Die gekennzeichneten Maße unterscheiden sich je nach Motormarke.

PKD 5490

IEC

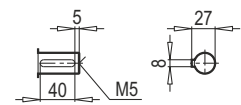
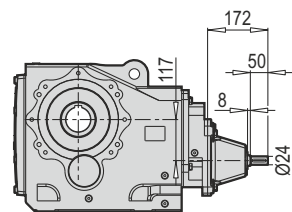
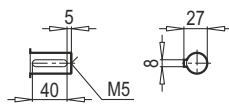
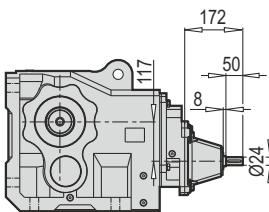


Tip / Type / Typ	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD 5490	71	160	110	130	4.0	M8	14	30	16.3	5	88
	80	200	130	165	4.0	M10	19	40	21.8	6	107
	90	200	130	165	4.0	M10	24	50	27.3	8	107
	100	250	180	215	5.0	M12	28	60	31.3	8	124
	112	250	180	215	5.0	M12	28	60	31.3	8	124

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

PKD 5490

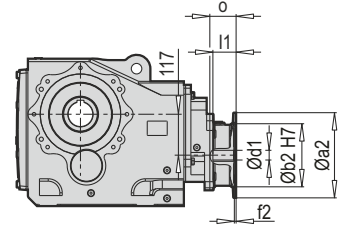
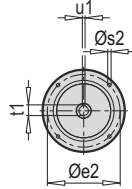
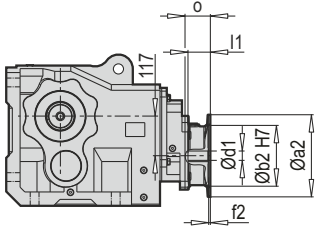
W



W ~ Kg	
PKD 5490	218

PKD 5490

PAM B5/B14



Tip / Type / Typ	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

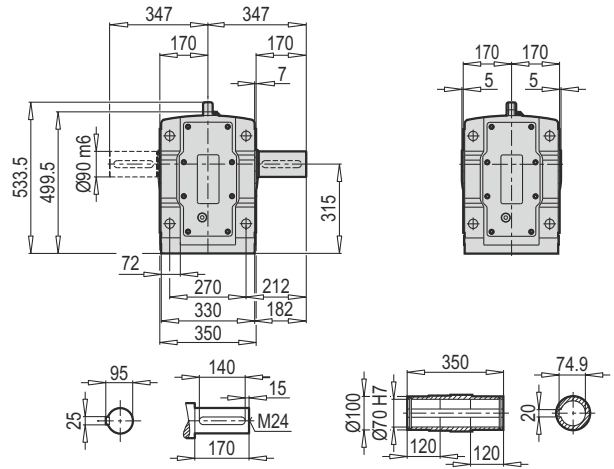
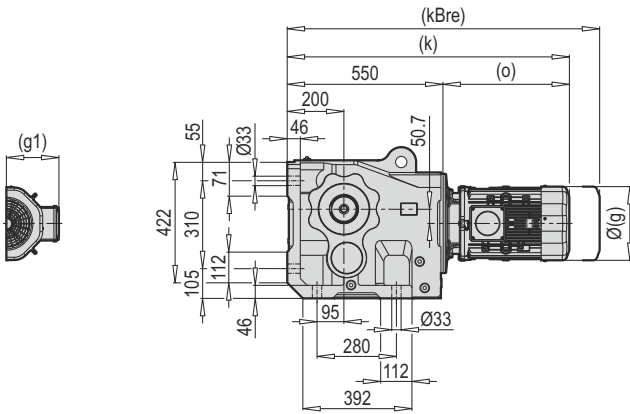
~ Kg	
PAM B5	PKD 5490
71	205
80	206
90	206
100	207
112	207

Tip / Type / Typ	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

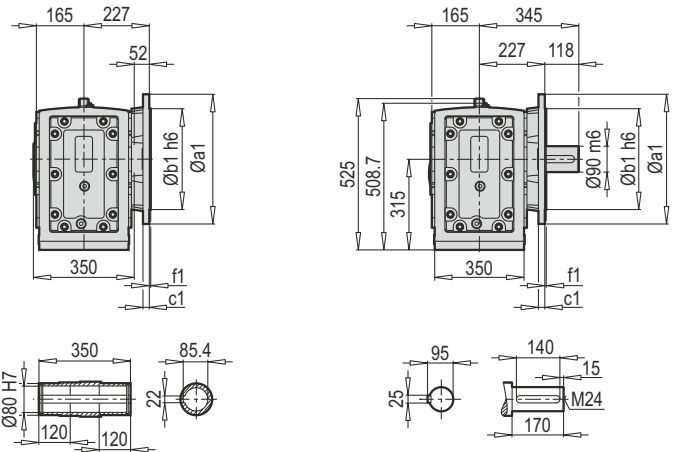
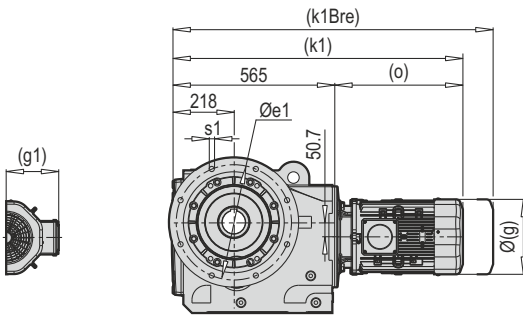
PKD 6390 TMA

PKD 6390 DA



PKD 6390 DG/B5

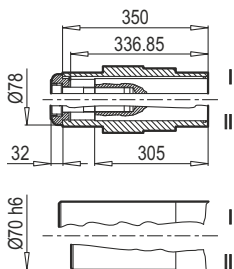
PKD 6390 TMG/B5



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

PKD 6390 DA/Ç

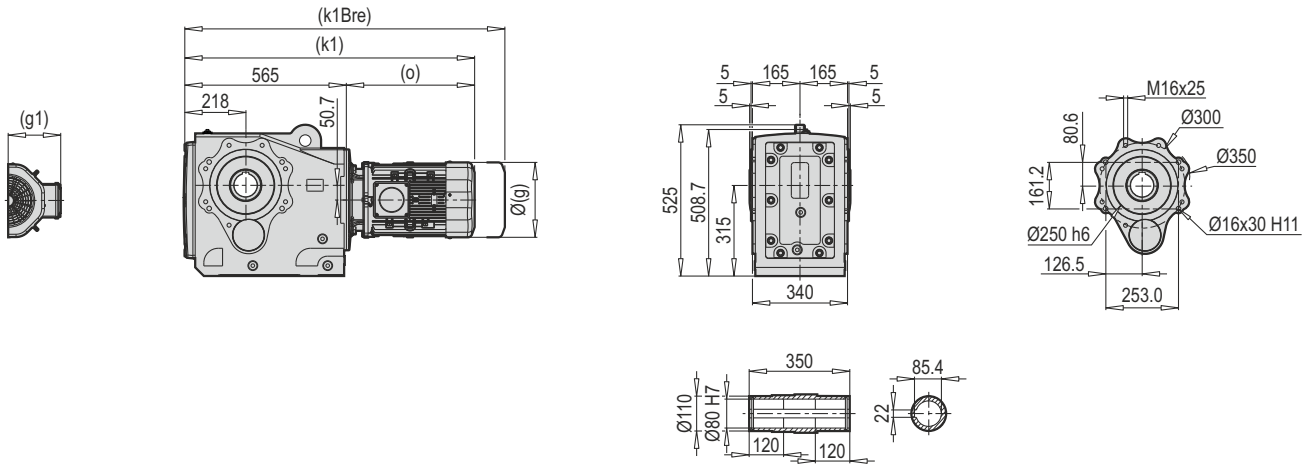
66-67



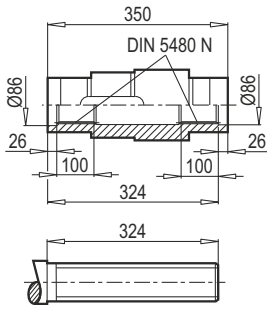
	100 L	112 M	132 S	132 M	160 M/L	180 M/L	200 L	225 M
g	202	220	271	271	322	363	363	456
g1	153	159	188	188	214	249	249	260
k/k1	930/945	929/944	995/1010	995/1010	1080/1095	1174/1189	1183/1198	1252/1270
kBre/k1Bre	1014/1029	1029/1044	1095/1120	1115/1130	1185/1200	1293/1308	1301/1316	1424/1442
o	380	379	445	445	530	624	633	700

Not: (...) işaretli olan ölçüler motor markasına göre farklılık gösterir. / Note: The dimensions which have (...) sign vary depending on the motor. / Hinweis: (...) Die gekennzeichneten Maße unterscheiden sich je nach Motormarke.

PKD 6390 **DG/B14**

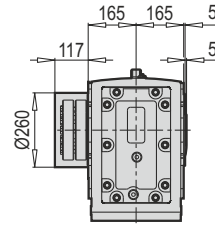
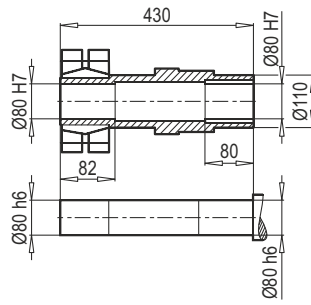


PKD 6390 **DG/DIN 5480**

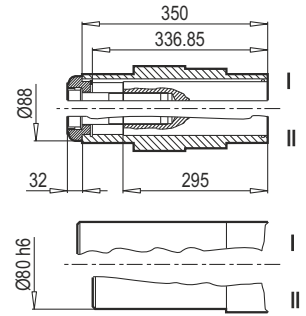


N85 x 3 x 30 x 27 x 9H

PKD 6390 **DG/KS**



PKD 6390 **DG/Ç**



66-67

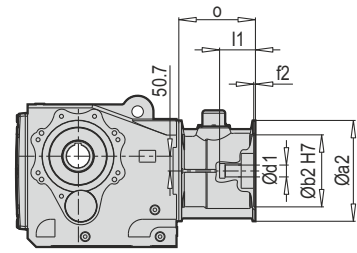
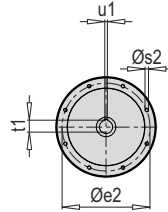
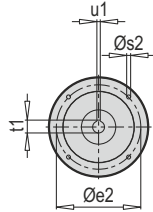
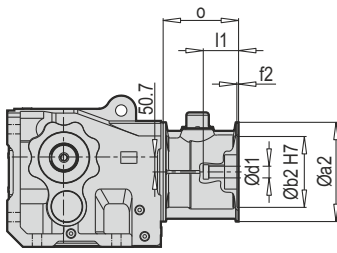
Konik sıkırtma / Shrink disc / Schrumpfscheibe				Altıköşe başlı civata / Hexagonal screw / Sechskantschraube DIN 931 / DIN 933* 10.9Vz		
Tip / Type / Typ	M _{amax} (Nm)	s ^{h6}	s ^{f6}	d _{xl}	Zs	MA (Nm)
KS 80/108	8500	3.70	3.56	M12x70*	14	100

	100 L	112 M	132 S	132 M	160 M/L	180 M/L	200 L	225 M
g	202	220	271	271	322	363	363	456
g1	153	159	188	188	214	249	249	260
k1	945	944	1010	1010	1095	1189	1198	1270
k1Bre	1029	1044	1120	1130	1200	1308	1316	1442
o	380	379	445	445	530	624	633	700

Not: (...) İşaretili olan ölçüler motor markasına göre farklılık gösterir. / Note: The dimensions which have (...) sign vary depending on the motor. / Hinweis: (...) Die gekennzeichneten Maße unterscheiden sich je nach Motormarke.

PKD 6390

IEC

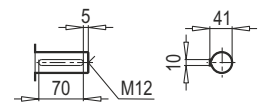
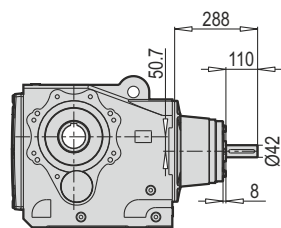
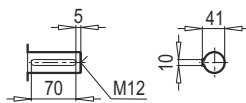
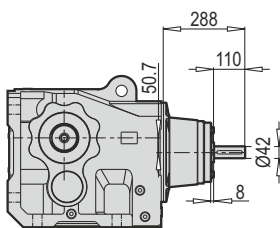


Tip / Type / Typ	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD 6390	100	250	180	215	5.0	M12	28	60	31.3	8	127
	112	250	180	215	5.0	M12	28	60	31.3	8	127
	132	300	230	265	5.0	M12	38	80	41.3	10	177
	160	350	250	300	6.0	M16	42	110	45.3	12	266
	180	350	250	300	6.0	M16	48	110	51.8	14	266
	200	400	300	350	6.0	M16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

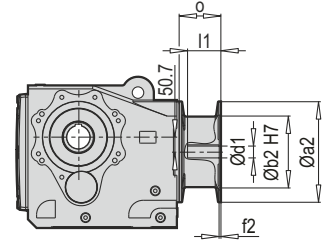
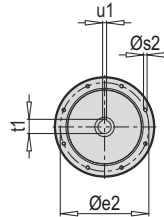
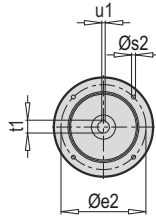
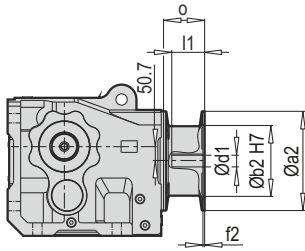
W



W ~ Kg	
PKD 6390	378

PKD 6390

PAM B5/B14



Tip / Type / Typ	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

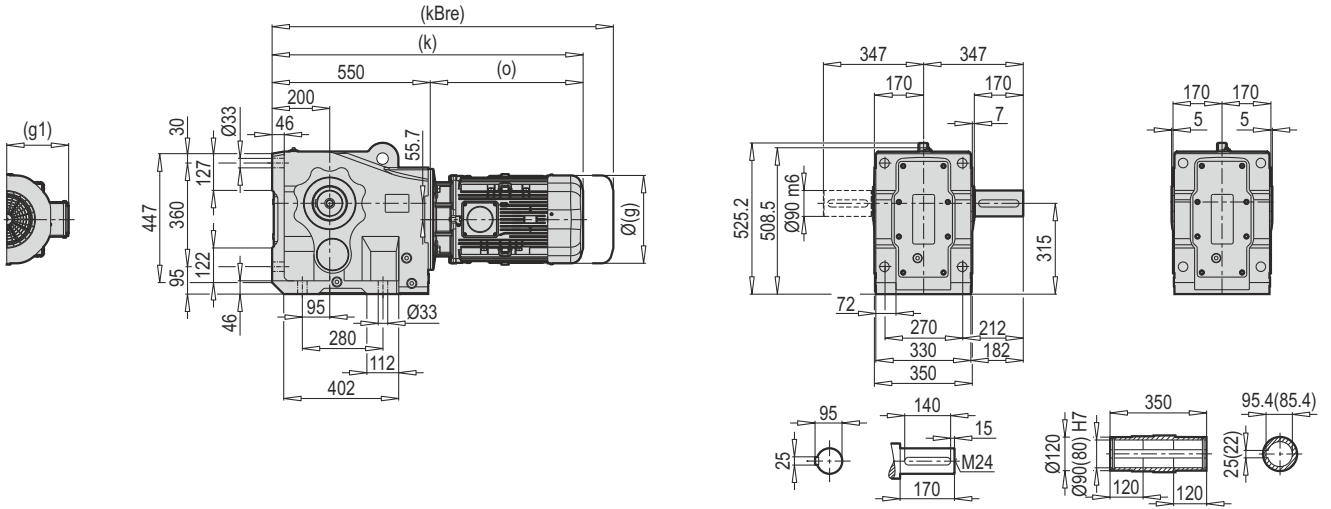
~ Kg	
PAM B5	PKD 6390
100	335
112	335
132	346
160	363
180	363
200	370
225	380

Tip / Type / Typ	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

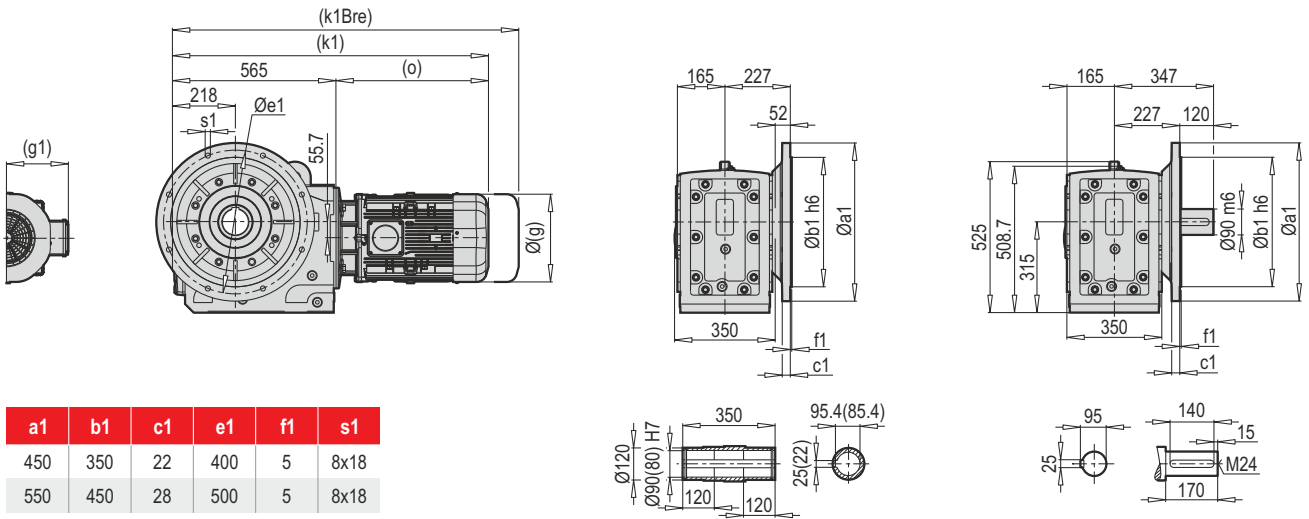
PKD 7390 TMA

PKD 7390 DA



PKD 7390 DG/B5

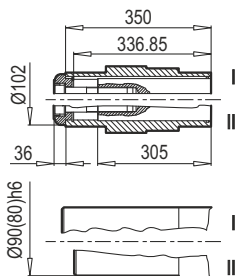
PKD 7390 TMG/B5



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

PKD 7390 DA/Ç

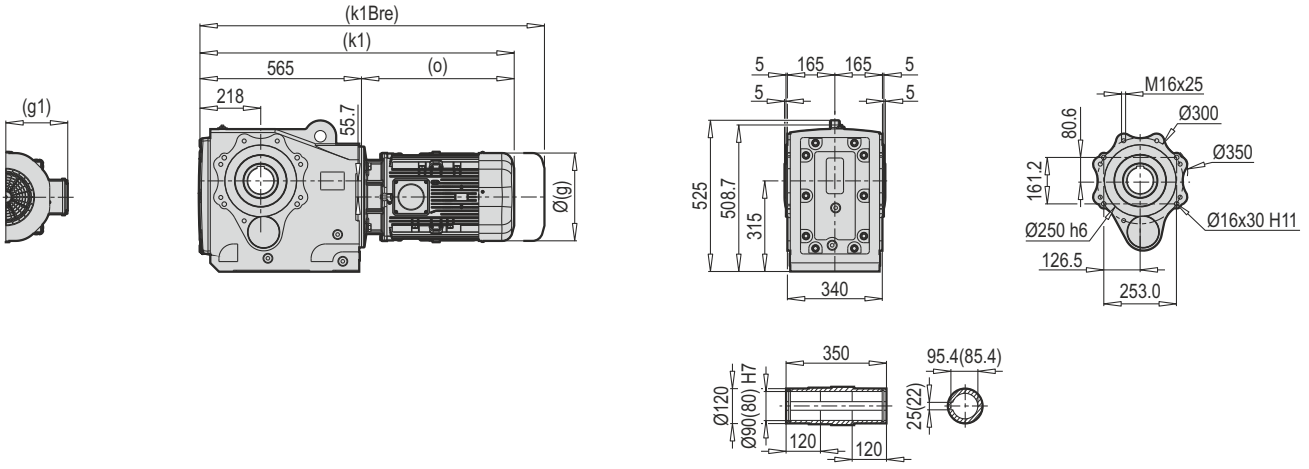
66-67



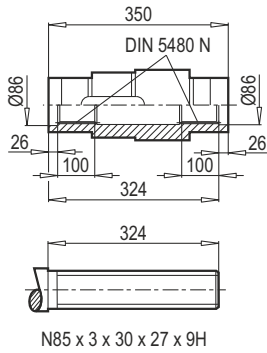
	100 L	112 M	132 S	132 M	160 M/L	180 M/L	200 L	225 M
g	202	220	271	271	322	363	363	456
g1	153	159	188	188	214	249	249	260
k/k1	930/945	929/944	995/1010	995/1010	1080/1095	1174/1189	1183/1198	1252/1270
kBre/k1Bre	1014/1029	1029/1044	1095/1110	1115/1130	1185/1200	1293/1308	1301/1316	1424/1442
o	380	379	445	445	530	624	633	700

Not: (...) işaretli olan ölçüler motor markasına göre farklılık gösterir. / Note: The dimensions which have (...) sign vary depending on the motor. / Hinweis: (...) Die gekennzeichneten Maße unterscheiden sich je nach Motormarke.

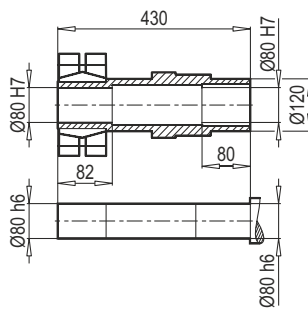
PKD 7390 **DG/B14**



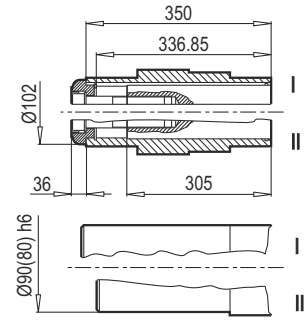
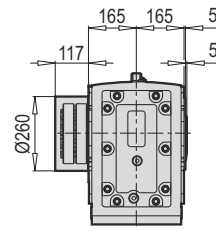
PKD 7390 **DG/DIN 5480**



PKD 7390 **DG/KS**



PKD 7390 **DG/Ç**



66-67

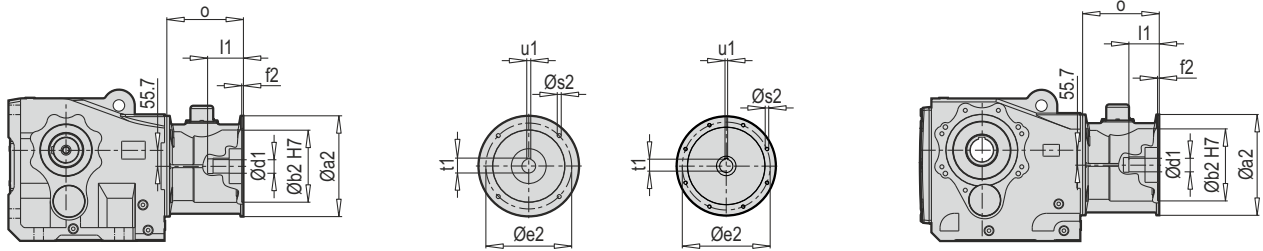
Konik sıkırtma / Shrink disc / Schrumpfscheibe				Altıköşe başlı civata / Hexagonal screw / Sechskantschraube DIN 931 / DIN 933* 10.9Vz		
Tip / Type / Typ	M _{amax} (Nm)	s ^{h6}	s ^{f6}	dxl	Zs	MA (Nm)
KS 80/108	8500	3.70	3.56	M12x70*	14	100

	100 L	112 M	132 S	132 M	160 M/L	180 M/L	200 L	225 M
g	202	220	271	271	322	363	363	456
g1	153	159	188	188	214	249	249	260
k1	945	944	1010	1010	1095	1189	1198	1270
k1Bre	1029	1044	1110	1130	1200	1308	1316	1442
o	380	379	445	445	530	624	633	700

Not : (...) İşaretili olan ölçüler motor markasına göre farklılık gösterir. / Note: The dimensions which have (...) sign vary depending on the motor. / Hinweis: (...) Die gekennzeichneten Maße unterscheiden sich je nach Motormarke.

PKD 7390

IEC

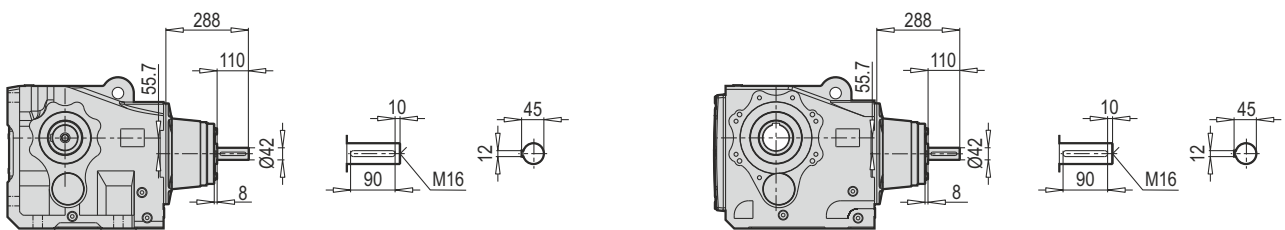


Tip / Type / Typ	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD 7390	100	250	180	215	5.0	M12	28	60	31.3	8	127
	112	250	180	215	5.0	M12	28	60	31.3	8	127
	132	300	230	265	5.0	M12	38	80	41.3	10	177
	160	350	250	300	6.0	M16	42	110	45.3	12	266
	180	350	250	300	6.0	M16	48	110	51.8	14	266
	200	400	300	350	6.0	M16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

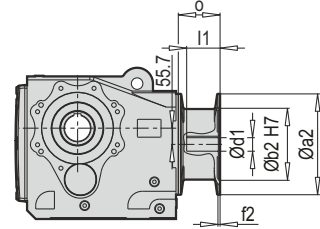
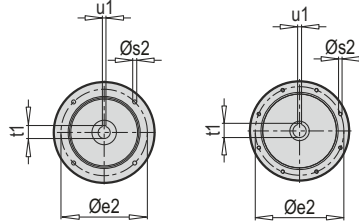
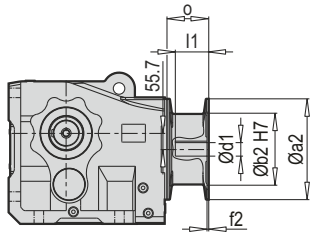
W



W ~ Kg	
PKD 7390	378

PKD 7390

PAM B5/B14



Tip / Type / Typ	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

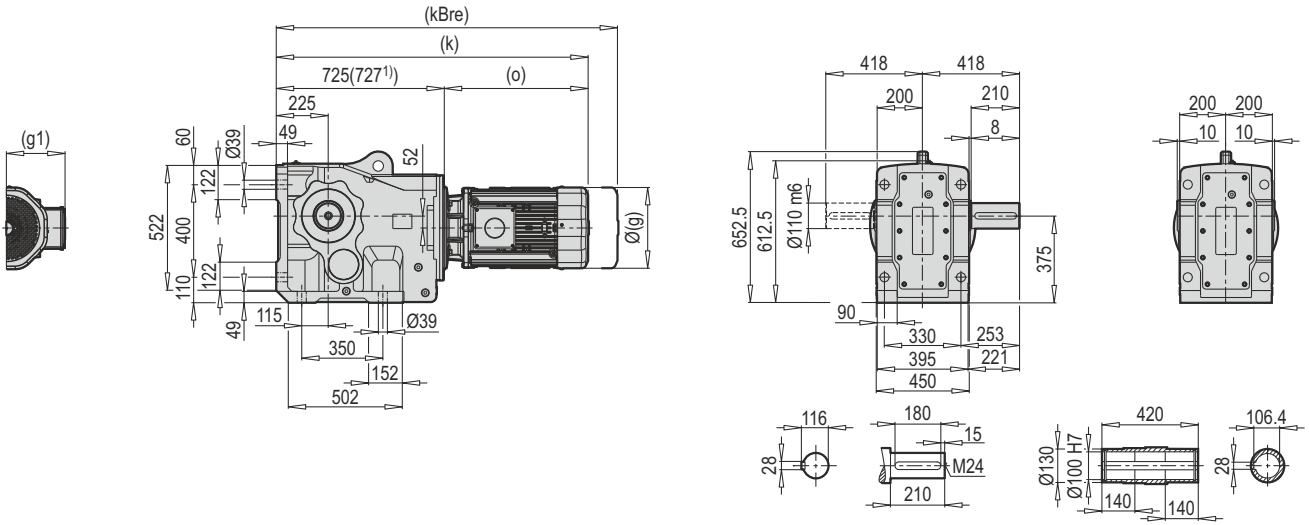
~ Kg	
PAM B5	PKD 7390
100	335
112	335
132	346
160	363
180	363
200	370
225	380

Tip / Type / Typ	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

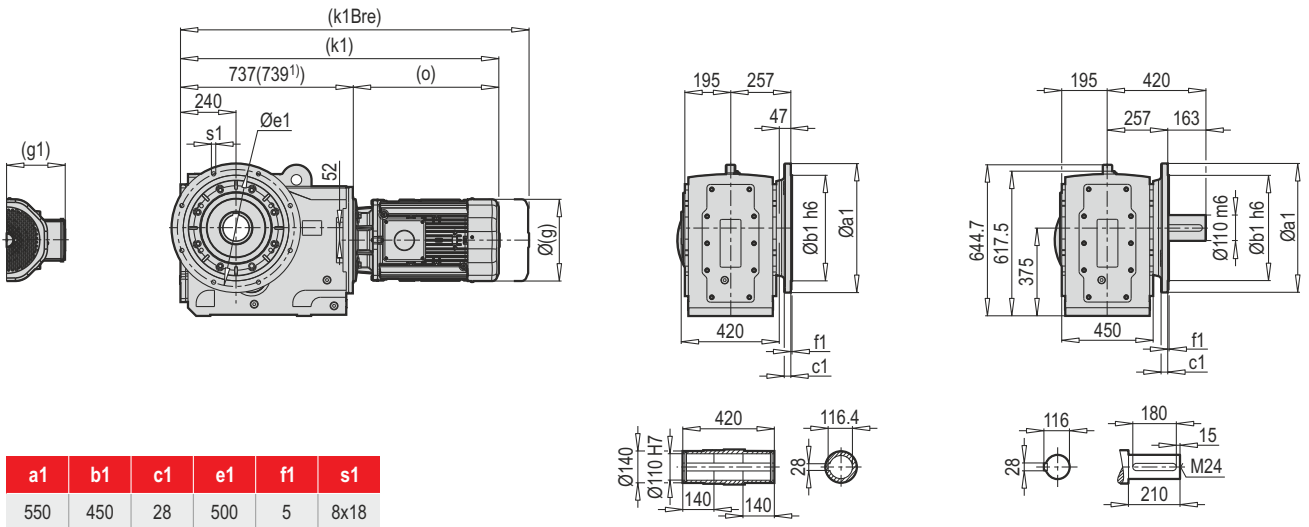
PKD 8390 TMA

PKD 8390 DA



PKD 8390 DG/B5

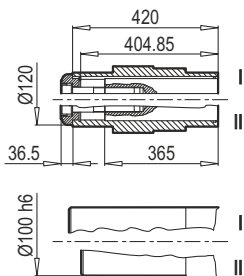
PKD 8390 TMG/B5



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

PKD 8390 DA/Ç

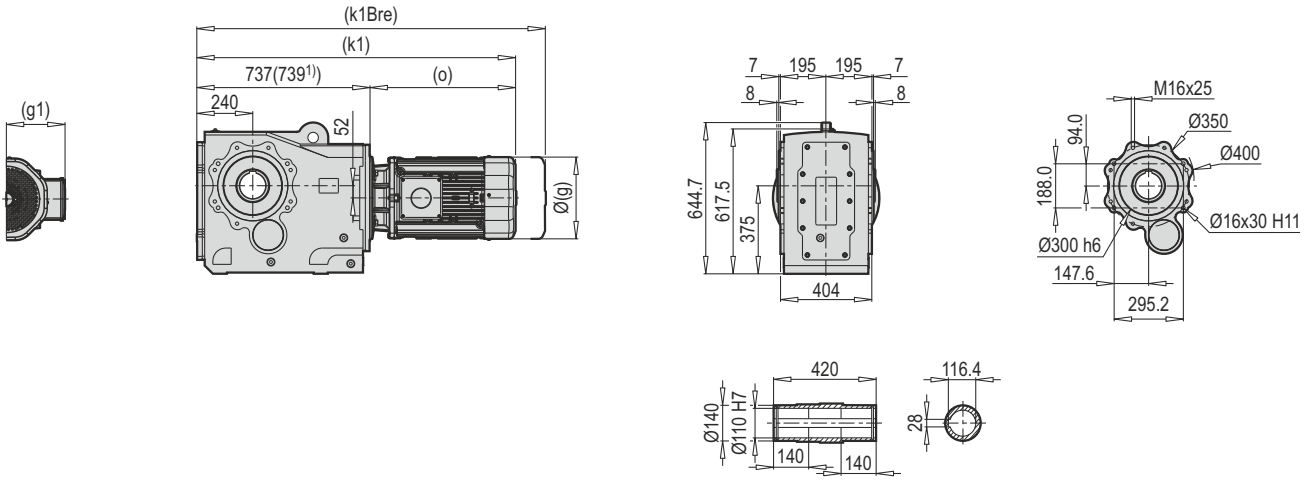
66-67



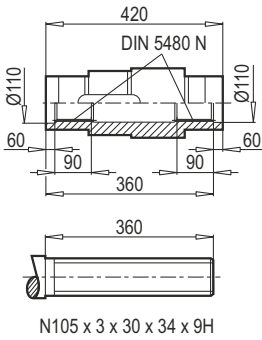
	132 S	132 M	160 M/L	180 M/L	200 L	225 M	250 M ¹⁾	280 M ¹⁾	315 S/M/L
g	271	271	322	363	363	456	495	527	-
g1	188	188	214	249	249	260	392	367	-
k/k1	1170/1182	1170/1182	1255/1267	1349/1361	1358/1370	1427/1442	1351/1366	1653/1638	-
kBre/k1Bre	1270/1282	1290/1302	1360/1372	1468/1480	1476/1488	1599/1614	1481/1496	-	-
o	445	445	530	624	633	700	644	888	-

Not: (...) İşaretili olan ölçüler motor markasına göre farklılık gösterir. / Note: The dimensions which have (...) sign vary depending on the motor. / Hinweis: (...) Die gekennzeichneten Maße unterscheiden sich je nach Motormarke.

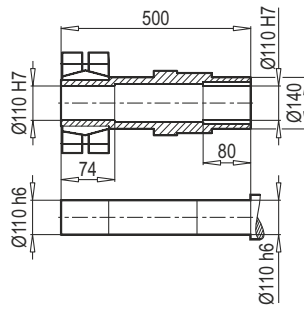
PKD 8390 DG/B14



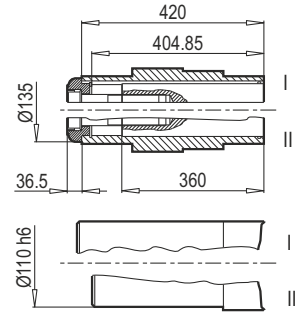
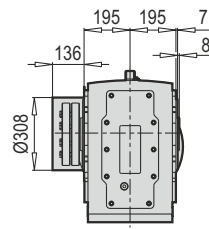
PKD 8390 DG/DIN 5480



PKD 8390 DG/KS



PKD 8390 DG/Ç



66-67

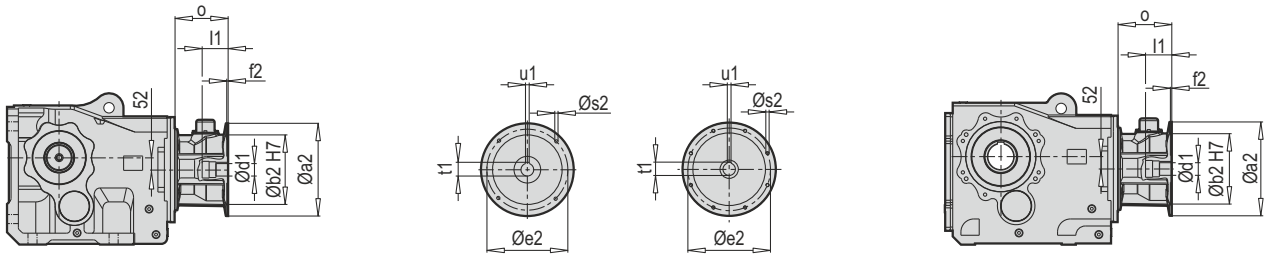
Konik sıkırtma / Shrink disc / Schrumpfscheibe				Altıköşe başlı civata / Hexagonal screw / Sechskantschraube DIN 931 / DIN 933* 10.9Vz		
Tip / Type / Typ	M _{amax} (Nm)	s ^{h6}	s ^{f6}	dxl	Zs	MA (Nm)
KS 110/138	13000	2.66	2.54	M16x70	8	250

	132 S	132 M	160 M/L	180 M/L	200 L	225 M	250 M ¹⁾	280 M ¹⁾	315 S/M/L	
g	271	271	322	363	363	456	495	527	-	
g1	188	188	214	249	249	260	392	367	-	
k1	1182	1182	1267	1361	1370	1442	1366	1638	-	
k1Bre	1282	1302	1372	1480	1488	1614	1496	-	-	
o	445	445	530	624	633	700	644	888	-	

Not: (...) İşaretili olan ölçüler motor markasına göre farklılık gösterir. / Note: The dimensions which have (...) sign vary depending on the motor. / Hinweis: (...) Die gekennzeichneten Maße unterscheiden sich je nach Motormarke.

PKD 8390

IEC

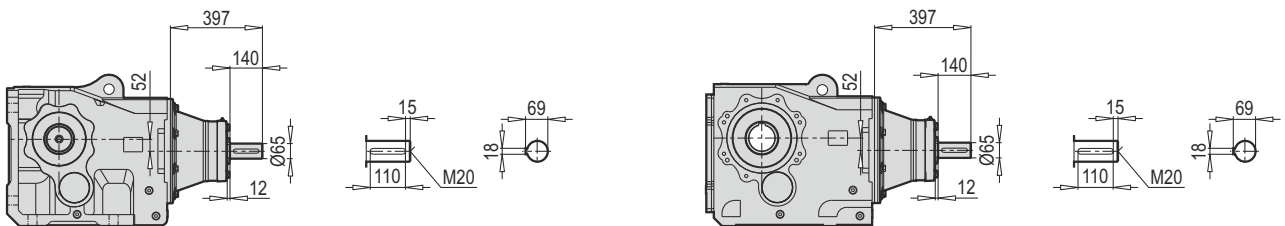


Tip / Type / Typ	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD 8390	132	300	230	265	5.0	M12	38	80	41.3	10	177
	160	350	250	300	6.0	M16	42	110	45.3	12	266
	180	350	250	300	6.0	M16	48	110	51.8	14	266
	200	400	300	350	6.0	M16	55	110	59.3	16	229
	225	450	350	400	6.0	M16	60	140	64.4	18	303
	250	550	450	500	6.0	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

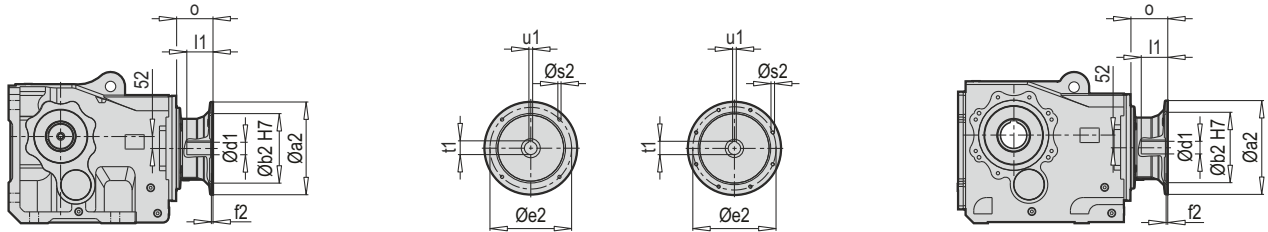
W



W ~ Kg	
PKD 8390	737

PKD 8390

PAM B5/B14



Tip / Type / Typ	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

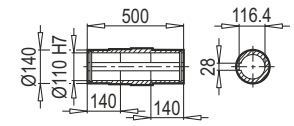
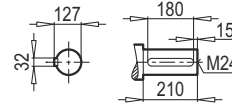
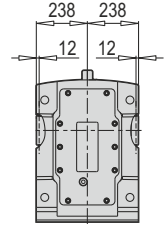
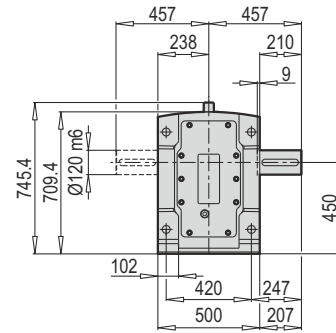
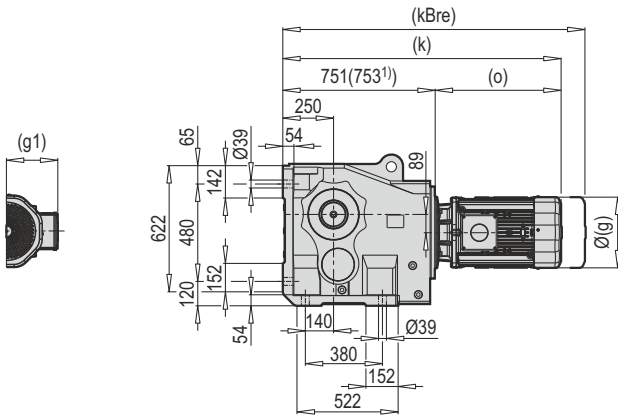
~ Kg	
PAM B5	PKD 8390
100	595
112	595
132	606
160	623
180	623
200	630
225	640
250	700
280	700

Tip / Type / Typ	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

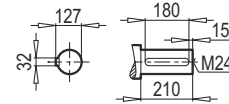
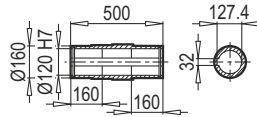
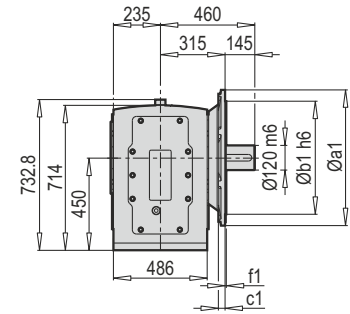
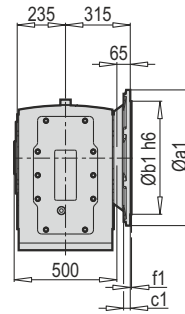
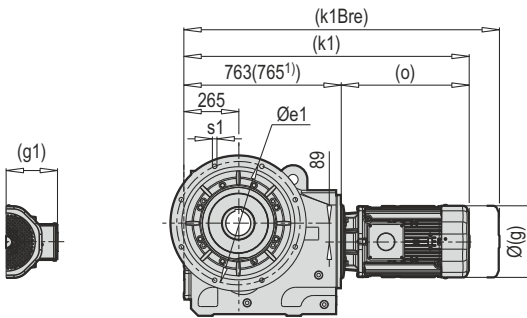
PKD G 8390 TMA

PKD G 8390 DA



PKD G 8390 DG/B5

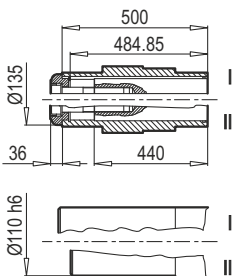
PKD G 8390 TMG/B5



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

PKD G 8390 DA/Ç

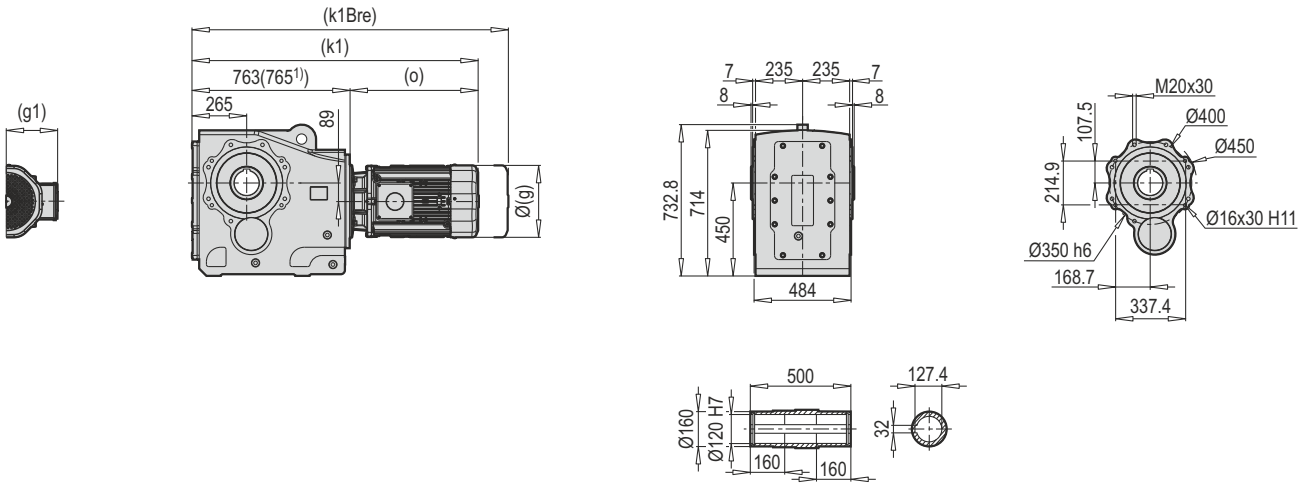
66-67



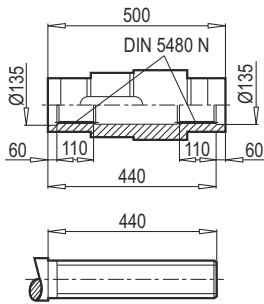
	132 S	132 M	160 M/L	180 M/L	200 L	225 M	250 M ¹⁾	280 M ¹⁾	315 S/M/L ²⁾	
g	271	271	322	363	363	456	495	527	-	
g1	188	188	214	249	249	260	392	367	-	
k/k1	1196/1208	1196/1208	1281/1293	1375/1387	1384/1396	1453/1468	1377/1392	1649/1664	-	
kBre/k1Bre	1296/1308	1316/1328	1386/1398	1494/1506	1502/1514	1625/1640	1507/1522	-	-	
o	445	445	530	624	633	700	644	888	-	

Not: (...) İşaretili olan ölçüler motor markasına göre farklılık gösterir. / Note: The dimensions which have (...) sign vary depending on the motor. / Hinweis: (...) Die gekennzeichneten Maße unterscheiden sich je nach Motormarke.

PKD G 8390 DG/B14

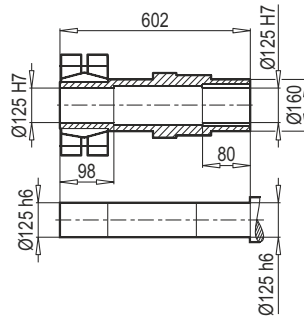


PKD G 8390 DG/DIN 5480

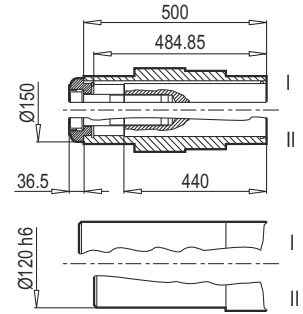


N130 x 5 x 30 x 24 x 9H

PKD G 8390 DG/KS



PKD G 8390 DG/Ç



66-67

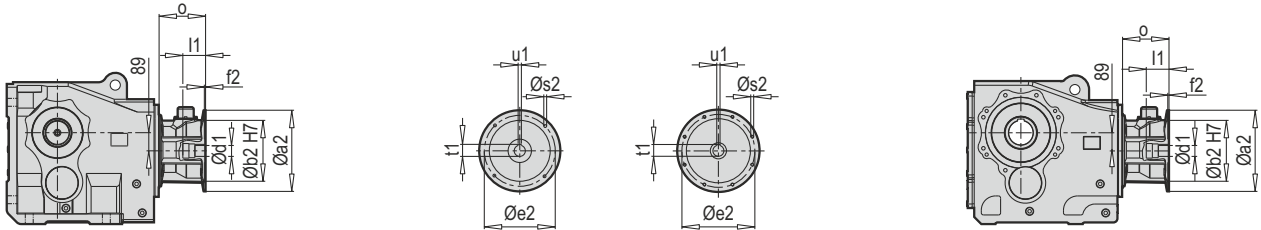
Konik sıkırtma / Shrink disc / Schrumpfscheibe				Altıköşe başlı civata / Hexagonal screw / Sechskantschraube DIN 931 / DIN 933* 10.9Vz		
Tip / Type / Typ	M _{amax} (Nm)	s ^{h6}	s ^{f6}	dxl	Zs	MA (Nm)
KS 125/158	20000	2.91	2.77	M16x80*	12	250

	132 S	132 M	160 M/L	180 M/L	200 L	225 M	250 M ¹⁾	280 M ¹⁾	315 M ²⁾	
g	271	271	322	363	363	456	495	527	-	
g1	188	188	214	249	249	260	392	367	-	
k1	1208	1208	1293	1387	1396	1468	1392	1664	-	
k1Bre	1308	1328	1398	1506	1514	1640	1522	-	-	
o	445	445	530	624	633	700	644	888	-	

Not: (...) İşaretili olan ölçüler motor markasına göre farklılık gösterir. / Note: The dimensions which have (...) sign vary depending on the motor. / Hinweis: (...) Die gekennzeichneten Maße unterscheiden sich je nach Motormarke.

PKD G 8390

IEC

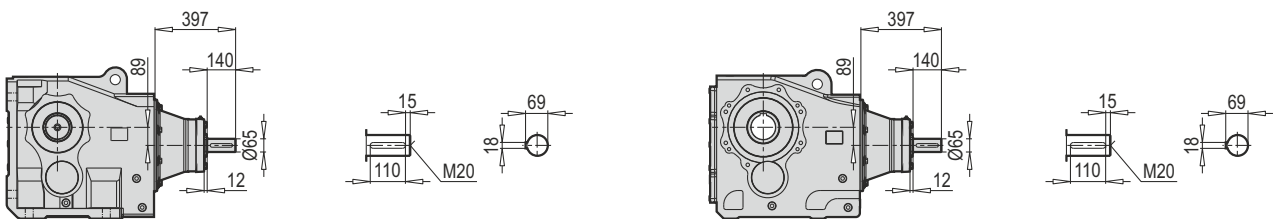


Tip / Type / Typ	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD G 8390	132	300	230	265	5.0	M12	38	80	41.3	10	177
	160	350	250	300	6.0	M16	42	110	45.3	12	266
	180	350	250	300	6.0	M16	48	110	51.8	14	266
	200	400	300	350	6.0	M16	55	110	59.3	16	229
	225	450	350	400	6.0	M16	60	140	64.4	18	303
	250	550	450	500	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

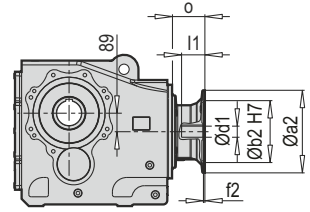
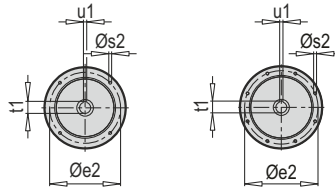
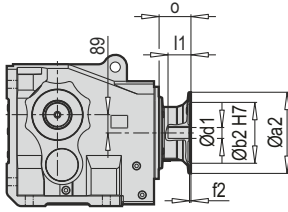
W



W ~ Kg	
PKD G 8390	1002

PKD G 8390

PAM B5/B14



Tip / Type / Typ	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

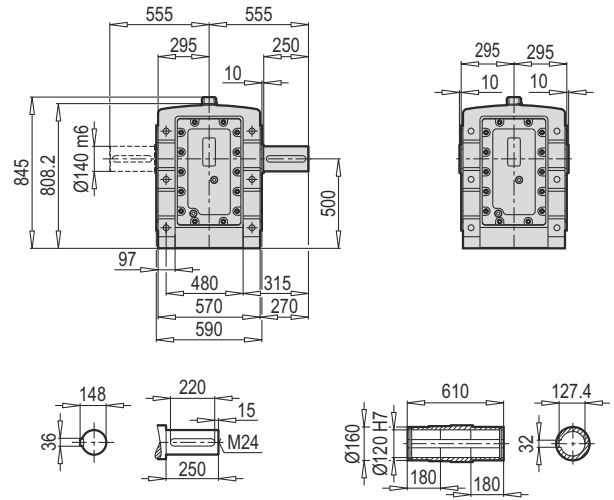
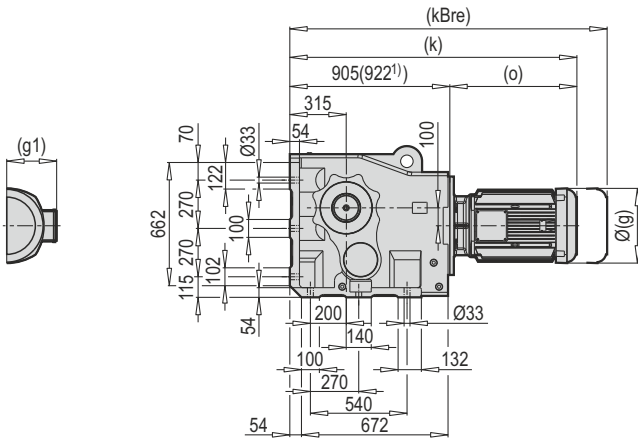
~ Kg	
PAM B5	PKD G 8390
132	856
160	873
180	873
200	880
225	890
250	950
280	950

Tip / Type / Typ	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

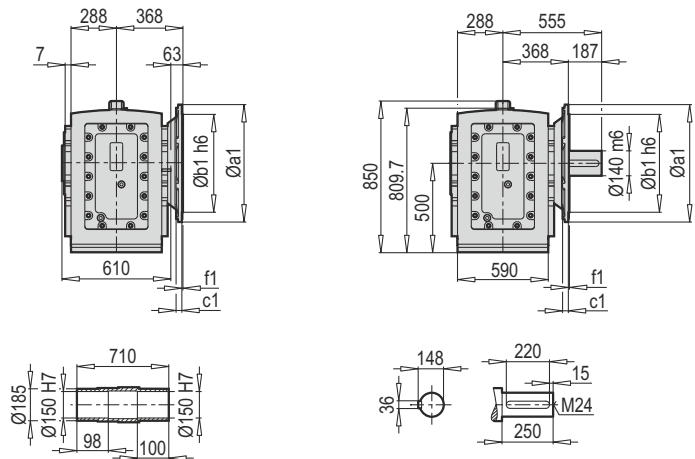
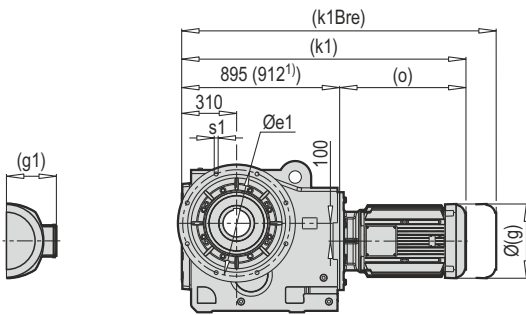
PKD 9390 TMA

PKD 9390 DA



PKD 9390 DG/KS/B5

PKD 9390 TMG/B5

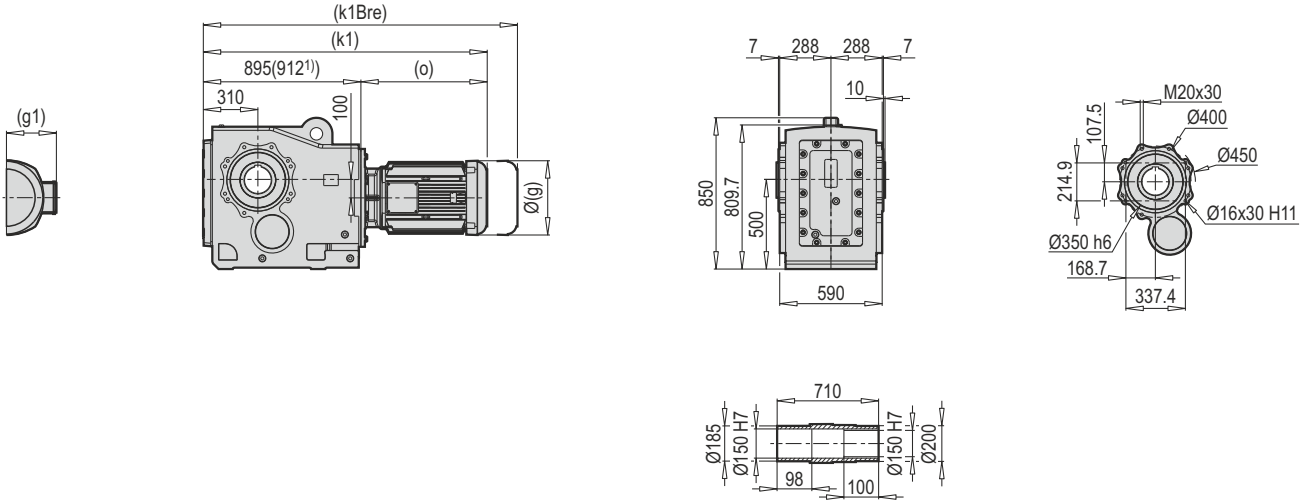


a1	b1	c1	e1	f1	s1
660	550	32	600	6	8x22

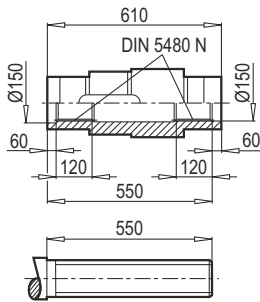
	132 S	132 M	160 M/L	180 M/L	200 L	225 M	250 M ¹⁾	280 M ¹⁾	315 S/M/L ²⁾	
g	271	271	322	363	363	456	495	527	-	
g1	188	188	214	249	249	260	392	367	-	
k/k1	1350 / 1340	1350 / 1340	1435	1529	1538	1607	1567	1784	-	
kBre/k1Bre	1450 / 1440	1470 / 1460	1540	1648	1656	1779	1697	-	-	
o	445	445	530	624	633	700	644	888	-	

Not: (...) İşaretili olan ölçüler motor markasına göre farklılık gösterir. / Note: The dimensions which have (...) sign vary depending on the motor. / Hinweis: (...) Die gekennzeichneten Maße unterscheiden sich je nach Motormarke.

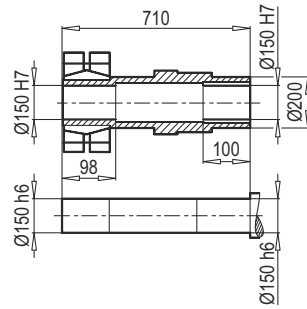
PKD 9390 **DG/KS/B14**



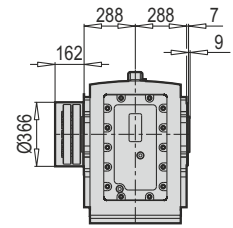
PKD 9390 **DG/DIN 5480**



N140 x 3 x 30 x 45 x 9H



PKD 9390 **DG/KS**



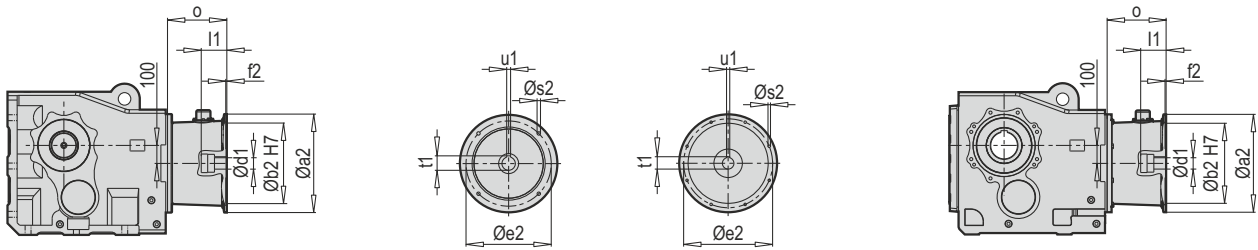
Konik sıkırtma / Shrink disc / Schrumpfscheibe				Altıköşe başlı civata / Hexagonal screw / Sechskantschraube DIN 931 / DIN 933* 10.9Vz		
Tip / Type / Typ	M _{amax} (Nm)	s ^{h6}	s ^{f6}	dxl	Zs	MA (Nm)
KS 150/185	32000	2.66	2.56	M16x80*	14	250

	132 S	132 M	160 M/L	180 M/L	200 L	225 M	250 M ¹⁾	280 M ¹⁾	315 S/M/L ²⁾	
g	271	271	322	363	363	456	495	527	-	
g1	188	188	214	249	249	260	392	367	-	
k1	1340	1340	1425	1519	1528	1603	1563	1780	-	
k1Bre	1440	1460	1530	1638	1646	1775	1693	-	-	
o	445	445	530	624	633	700	644	888	-	

Not: (...) İşaretili olan ölçüler motor markasına göre farklılık gösterir. / Note: The dimensions which have (...) sign vary depending on the motor. / Hinweis: (...) Die gekennzeichneten Maße unterscheiden sich je nach Motormarke.

PKD 9390

IEC

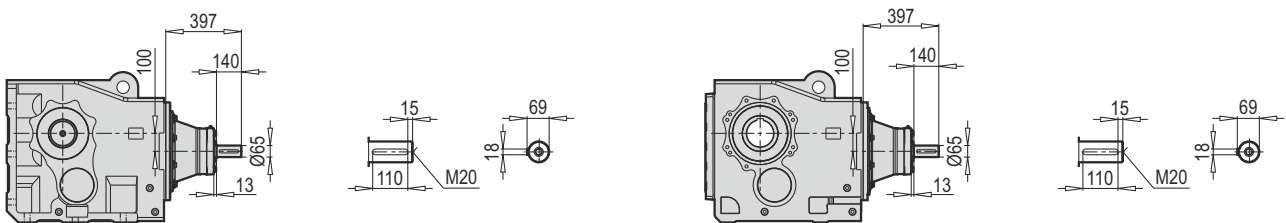


Tip / Type / Typ	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD 9390	132	300	230	265	5.0	M12	38	80	41.3	10	177
	160	350	250	300	6.0	M16	42	110	45.3	12	266
	180	350	250	300	6.0	M16	48	110	51.8	14	266
	200	400	300	350	6.0	M16	55	110	59.3	16	229
	225	450	350	400	6.0	M16	60	140	64.4	18	303
	250	550	450	500	6.0	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

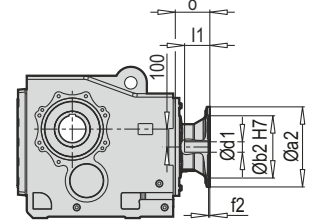
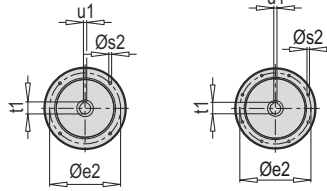
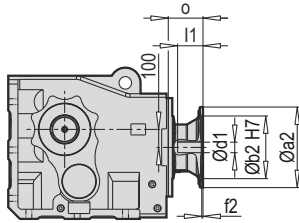
W



W ~ Kg	
PKD 9390	1606

PKD 9390

PAM B5/B14



Tip / Type / Typ	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

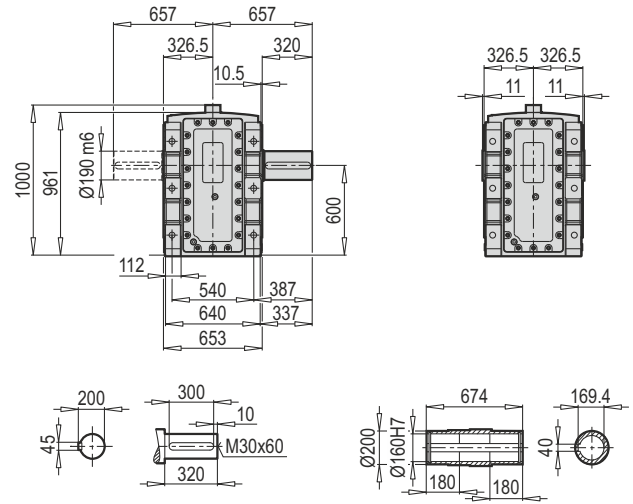
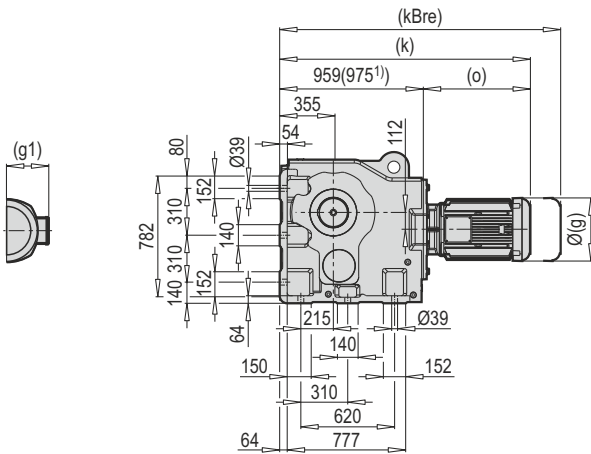
~ Kg	
PAM B5	PKD 9390
132	1426
160	1443
180	1443
200	1450
225	1460
250	1520
280	1520

Tip / Type / Typ	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

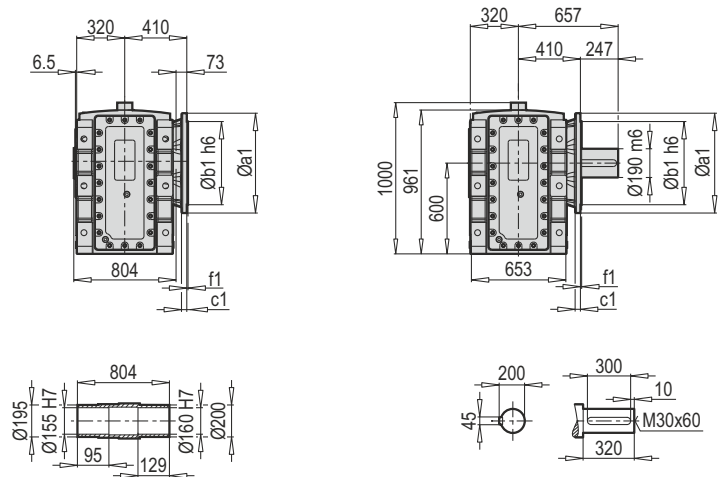
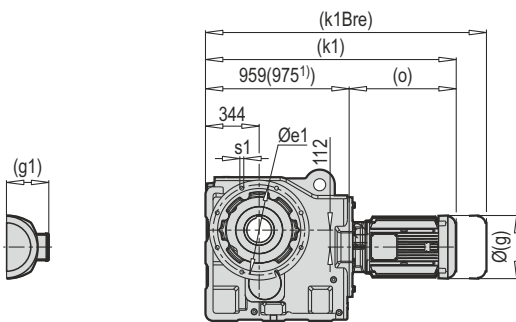
PKD G 9390 TMA

PKD G 9390 DA



PKD G 9390 DG/KS/B5

PKD G 9390 TMG/B5

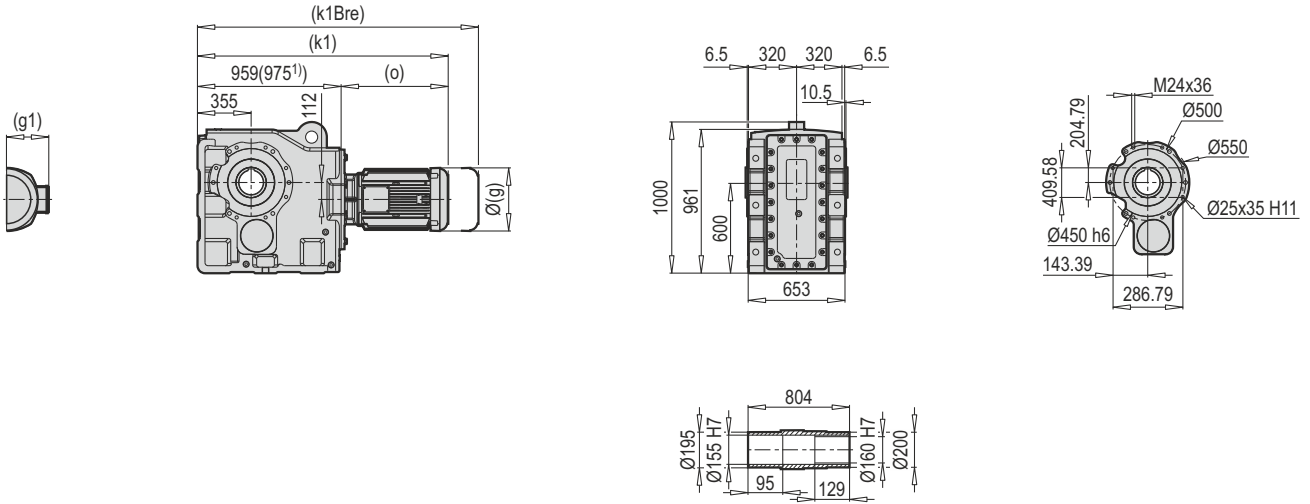


a1	b1	c1	e1	f1	s1
660	550	32	600	6	8x22

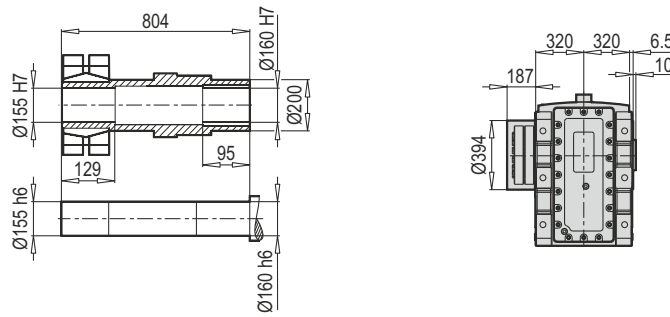
	160 L	180 M/L	200 L	225 M	250 M ¹⁾	280 M ¹⁾	315 S/M/L ²⁾	
g	322	363	363	456	495	527	-	
g1	214	249	249	260	392	367	-	
k/k1	1489	1583	1592	1662	1623	1864	-	
kBre/k1Bre	1594	1702	1710	1834	1753	-	-	
o	530	624	633	700	647	888	-	

Not: (...) İşaretili olan ölçüler motor markasına göre farklılık gösterir. / Note: The dimensions which have (...) sign vary depending on the motor. / Hinweis: (...) Die gekennzeichneten Maße unterscheiden sich je nach Motormarke.

PKD G 9390 DG/KS/B14



PKD G 9390 DG/KS



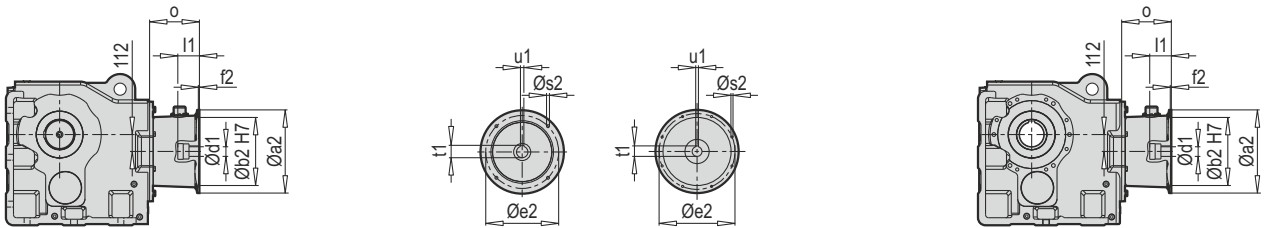
Konik sıkırtma / Shrink disc / Schrumpfscheibe				Alt köşe başlı civata / Hexagonal screw / Sechskantschraube DIN 931 / DIN 933* 10.9Vz		
Tip / Type / Typ	M _{amax} (Nm)	s ^{h6}	s ^{f6}	d _{xl}	Zs	MA (Nm)
KS 150/195	50000	2.71	2.61	M20x100*	14	490

	160 L	180 M/L	200 L	225 M	250 M ¹⁾	280 M ²⁾	315 S/M/L ²⁾	
g	322	363	363	456	495	527	-	
g1	214	249	249	260	392	367	-	
k1	1489	1583	1592	1662	1623	1864	-	
k1Bre	1594	1702	1710	1834	1753	-	-	
o	530	624	633	700	647	888	-	

Not: (...) İşaretili olan ölçüler motor markasına göre farklılık gösterir. / Note: The dimensions which have (...) sign vary depending on the motor. / Hinweis: (...) Die gekennzeichneten Maße unterscheiden sich je nach Motormarke.

PKD G 9390

IEC

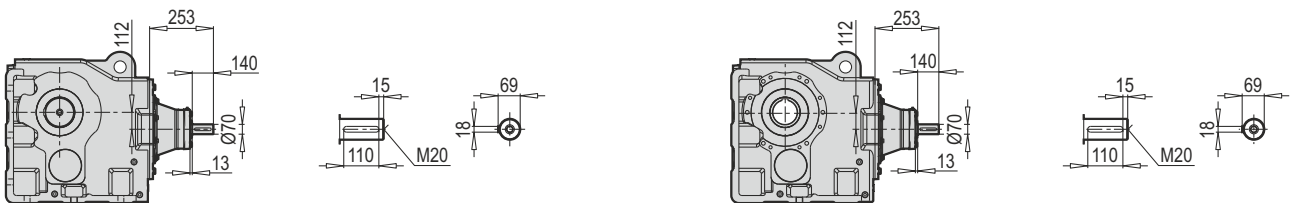


Tip / Type / Typ	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD G 9390	132	300	230	265	5.0	M12	38	80	41.3	10	177
	160	350	250	300	6.0	M16	42	110	45.3	12	266
	180	350	250	300	6.0	M16	48	110	51.8	14	266
	200	400	300	350	6.0	M16	55	110	59.3	16	229
	225	450	350	400	6.0	M16	60	140	64.4	18	303
	250	550	450	500	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

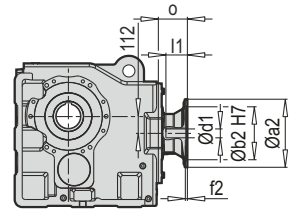
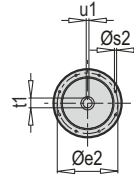
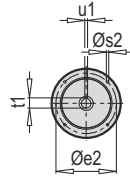
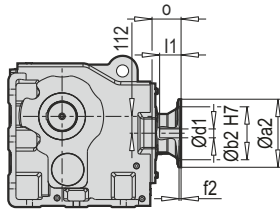
W



W ~ Kg	
PKD G 9390	1606

PKD G 9390

PAM B5/B14



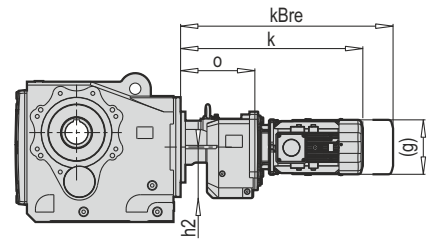
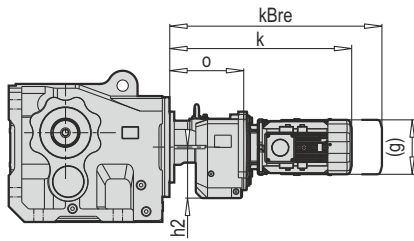
Tip / Type / Typ	PAM B5	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PKD G 9390	132	300	230	265	5.0	M12	38	80	41.3	10	110
	160	350	250	300	6.0	M16	42	110	45.3	12	145
	180	350	250	300	6.0	M16	48	110	51.8	14	145
	200	400	300	350	6.0	M16	55	110	59.3	16	157
	225	450	350	400	6.0	M16	60	140	64.4	18	183
	250	550	450	500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

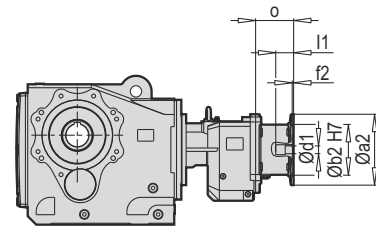
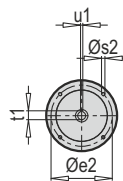
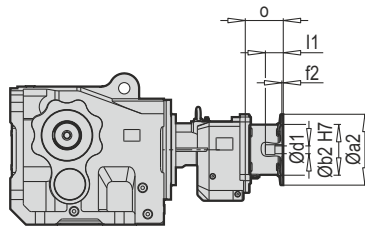


Tip / Type / Typ	Motor	g	g1	h2	o	k	kBre
PKD 6390/32 PKD 7390/32	71 M	140	119	155	219	456	516
	80 M	172	131			479	549
	90 S/L	182	130			542	613
	100 L	202	153			596	680
	112 M	220	159			591	691
	132 S/M	271	189			666	765/793
PKD 6390/42 PKD 7390/42	100 L	182	130	180	261	642	726
	112 M	202	153			641	741
	132 S/M	220	159			703	807/835
	160 M/L	271	188			791	896

Not: (...) işaretli olan ölçüler motor markasına göre farklılık gösterir. / Note: The dimensions which have (...) sign vary depending on the motor. / Hinweis: (...) Die gekennzeichneten Maße unterscheiden sich je nach Motormarke.

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

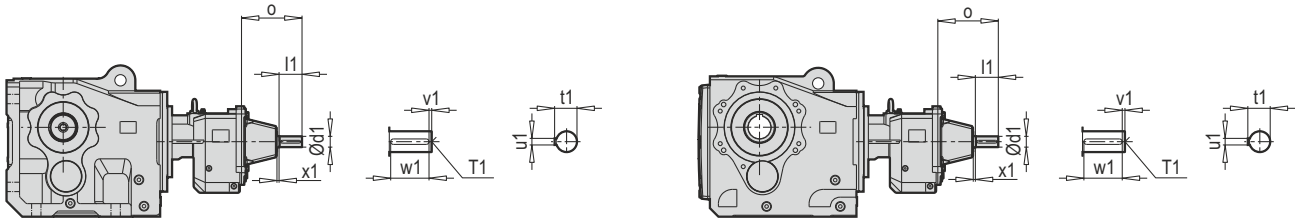
IEC



Tip / Type / Typ	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	PKD	PKD	~ Kg		
											6390/32 7390/32 o	6390/42 7390/42 o		PKD 6390/32 PKD 7390/32	PKD 6390/42 PKD 7390/42
PKD 6390/32-7390/32	71	160	110	130	4.0	M8	14	30	16.3	5	88	-	71	380	-
PKD 6390/32-7390/32	80	200	130	165	4.0	M10	19	40	21.8	6	107	-	80	384	-
PKD 6390/32-7390/32-6390/42-7390/42	90	200	130	165	4.0	M10	24	50	27.3	8	107	107	90	384	405
PKD 6390/32-7390/32-6390/42-7390/42	100	250	180	215	5.0	M12	28	60	31.3	8	124	133	100	389	413
PKD 6390/32-7390/32-6390/42-7390/42	112	250	180	215	5.0	M12	28	60	31.3	8	124	133	112	389	413
PKD 6390/32-7390/32-6390/42-7390/42	132	300	230	265	5.0	M12	38	80	41.3	10	156	190	132	398	427
PKD 6390/42-7390/42	160	350	250	300	6.0	M16	42	110	45.3	12	-	194	160	-	438

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

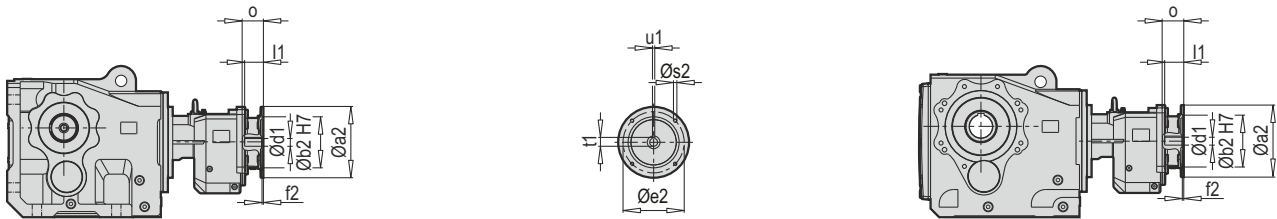
W



Tip / Type / Typ	Ød1	x1	l1	o	T1	t1	u1	v1	w1	W ~ Kg	
PKD 6390/32	24	8	50	172	M8	27.0	8	5	40	PKD 6390/32	382
PKD 7390/32	24	8	50	172	M8	27.0	8	5	40	PKD 7390/32	382
PKD 6390/42	38	8	80	213	M12	41.0	10	5	70	PKD 6390/42	411
PKD 7390/42	38	8	80	213	M12	41.0	10	5	70	PKD 7390/42	411

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

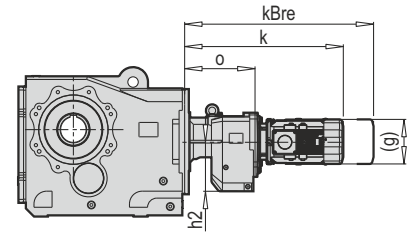
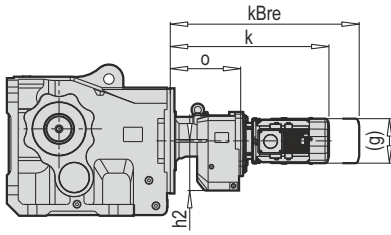
PAM B5/B14



Tip / Type / Typ	PAM B5	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o	~ Kg				
												PAM B5	PKD 6390/32	PKD 6390/42	PKD 7390/32	PKD 7390/42
PKD 6390/32-7390/32	71	160	110	130	4.0	M8	14	30	16.3	5	88	71	361	-	361	-
PKD 6390/32-7390/32	80	200	130	165	4.0	M10	19	40	21.8	6	72	80	362	-	362	-
PKD 6390/32-7390/32-6390/42-7390/42	90	200	130	165	4.0	M10	24	50	27.3	8	72	90	362	382	362	382
PKD 6390/32-7390/32-6390/42-7390/42	100	250	180	215	5.0	M12	28	60	31.3	8	75	100	363	383	363	383
PKD 6390/32-7390/32-6390/42-7390/42	112	250	180	215	5.0	M12	28	60	31.3	8	75	112	363	383	363	383
PKD 6390/32-7390/32-6390/42-7390/42	132	300	230	265	5.0	M12	38	80	41.3	10	94	132	373	392	373	392
PKD 6390/42-7390/42	160	350	250	300	6.0	M16	42	110	45.3	12	120	160	-	400	-	400

Tip / Type / Typ	PAM B14	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o	~ Kg				
												PAM B14	PKD 6390/32	PKD 6390/42	PKD 7390/32	PKD 7390/42
PKD 6390/32-7390/32	71	105	70	85	4.0	7	14	30	16.3	5	88	71	359	-	359	-
PKD 6390/32-7390/32	80	120	80	100	4.0	7	19	40	21.8	6	72	80	360	-	360	-
PKD 6390/32-7390/32-6390/42-7390/42	90	140	95	115	4.0	9	24	50	27.3	8	72	90	360	381	360	381
PKD 6390/32-7390/32-6390/42-7390/42	100	160	110	130	5.0	9	28	60	31.3	8	75	100	362	382	362	382
PKD 6390/32-7390/32-6390/42-7390/42	112	160	110	130	5.0	9	28	60	31.3	8	75	112	362	382	362	382
PKD 6390/32-7390/32-6390/42-7390/42	132	200	130	165	5.0	11	38	80	41.3	10	94	132	366	387	366	387

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

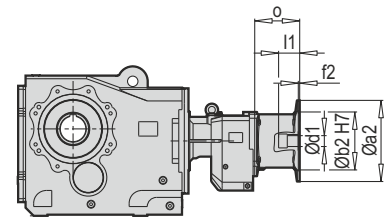
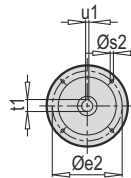
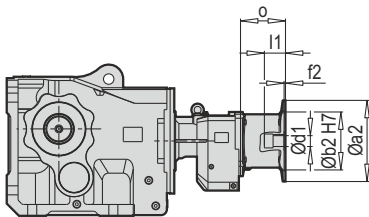


Tip / Type / Typ	Motor	g	g1	h2	o	k	kBre
PKD 8390/42	90 S/L	182	130	180	261	591	659
	100 L	202	153			642	726
	112 M	220	159			641	741
	132 S/M	271	188			703	802/822
	160 M	322	214			791	851
PKD 8390/52	100 L	202	153	214	300	681	765
	112 M	220	159			680	780
	132 S/M	271	188			742	841/861
	160 M/L	322	214			830	935
	180 M	363	249			924	1025
PKD G 8390/52 PKD 9390/52	90 S/L	182	130	214	300	630	698
	100 L	202	153			681	765
	112 M	220	159			680	780
	132 S/M	271	188			742	841/861
	160 M/L	322	214			830	935
180 M/L	363	249	924	1025			

Not: (...) İşaretili olan ölçüler motor markasına göre farklılık gösterir. / Note: The dimensions which have (...) sign vary depending on the motor. / Hinweis: (...) Die gekennzeichneten Maße unterscheiden sich je nach Motormarke.

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

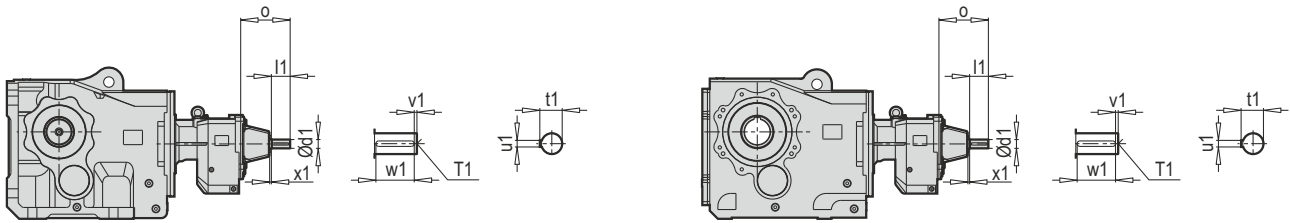
IEC



Tip / Type / Typ	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	PKD 8390/42 o	PKD 8390/52 o	PKD G8390/52 9390/52 o	~ Kg				
														IEC	PKD 8390/42	PKD 8390/52	PKD G 8390/52	PKD 9390/52
PKD 8390/42-G8390/52-9390/52	90	200	130	165	4.0	M10	24	50	27.3	8	109	-	109	90	685	-	976	1580
PKD 8390/42-8390/52-G8390/52-9390/52	100	250	180	215	5.0	M12	28	60	31.3	8	133	133	133	100	692	719	984	1588
PKD 8390/42-8390/52-G8390/52-9390/52	112	250	180	215	5.0	M12	28	60	31.3	8	133	133	133	112	692	719	984	1588
PKD 8390/42-8390/52-G8390/52-9390/52	132	300	230	265	5.0	M12	38	80	41.3	10	190	190	190	132	707	734	999	1603
PKD 8390/42-8390/52-G8390/52-9390/52	160	350	250	300	6.0	M16	42	110	45.3	12	194	194	194	160	718	744	1009	1613
PKD 8390/52-G8390/52-9390/52	180	350	250	300	6.0	M16	48	110	51.8	14	-	194	194	180	-	744	1009	1613

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

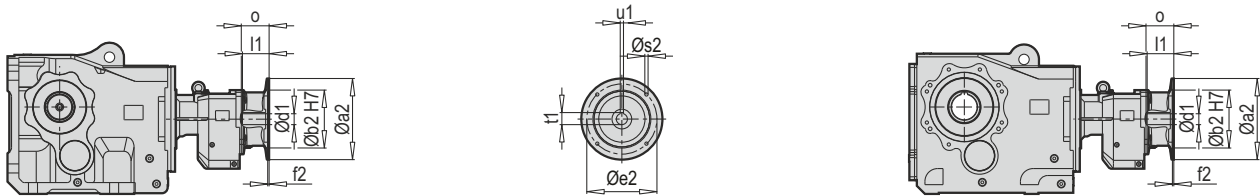
W



Tip / Type / Typ	Ød1	x1	l1	o	T1	t1	u1	v1	w1	W ~ Kg	
PKD 8390/42	24	8	50	172	M8	27.0	8	5	40	PKD 8390/42	690
PKD 8390/52	24	8	50	172	M8	27.0	8	5	40	PKD 8390/52	717
PKD G 8390/52	38	8	80	213	M12	41.0	10	5	70	PKD G 8390/52	982
PKD 9390/52	38	8	80	213	M12	41.0	10	5	70	PKD 9390/52	1586

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

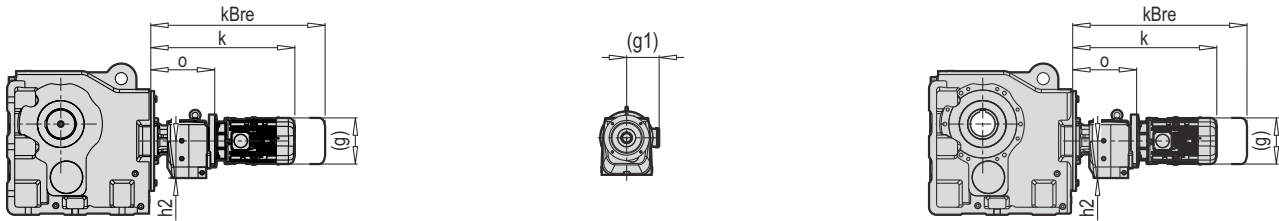
PAM B5/B14



Tip / Type / Typ	PAM B5	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o	~ Kg				
												PAM B5	PKD 8390/42	PKD 8390/52	PKD G 8390/52	PKD 9390/52
PKD 8390/42-G8390/52-9390/52	90	200	130	165	4.0	M10	24	50	27.3	8	72	90	642	-	917	1487
PKD 8390/42-8390/52-G8390/52-9390/52	100	250	180	215	5.0	M12	28	60	31.3	8	75	100	643	668	918	1488
PKD 8390/42-8390/52-G8390/52-9390/52	112	250	180	215	5.0	M12	28	60	31.3	8	75	112	643	668	918	1488
PKD 8390/42-8390/52-G8390/52-9390/52	132	300	230	265	5.0	M12	38	80	41.3	10	94	132	652	677	927	1597
PKD 8390/42-8390/52-G8390/52-9390/52	160	350	250	300	6.0	M16	42	110	45.3	12	120	160	660	685	935	1605
PKD 8390/52-G8390/52-9390/52	180	350	250	300	6.0	M16	48	110	51.8	14	120	180	-	685	935	1605

Tip / Type / Typ	PAM B14	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o	~ Kg				
												PAM B14	PKD 8390/42	PKD 8390/52	PKD G 8390/52	PKD 9390/52
PKD 8390/42-G8390/52-9390/52	90	140	95	115	4.0	9	24	50	27.3	8	72	90	641	-	916	1486
PKD 8390/42-8390/52-G8390/52-9390/52	100	160	110	130	5.0	9	28	60	31.3	8	75	100	642	667	917	1487
PKD 8390/42-8390/52-G8390/52-9390/52	112	160	110	130	5.0	9	28	60	31.3	8	75	112	642	667	917	1487
PKD 8390/42-8390/52-G8390/52-9390/52	132	200	130	165	5.0	11	38	80	41.3	10	94	132	647	672	923	1492

PKD G 9390/62 PKD G 9390/63

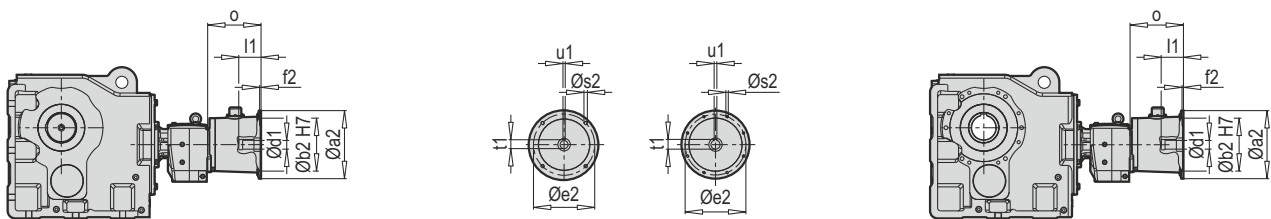


Tip / Type / Typ	Motor	g	g1	h2	o	k	kBre
PKD G9390/62	100 L	202	153	245	401	781	864
	112 M	220	159			779	879
	132 S/M	271	188			846	945/965
	160 M/L	322	214			931	1035
	180 M/L	363	249			1025	1143
	200 L	363	249			1033	1152
	225 M	456	260			1102	1274
PKD G9390/63	90 S/L	182	130	245	375	704	772
	100 L	202	153			756	839
	112 M	220	159			754	854
	132 S	271	188			816	916/936

Not : (...) İşaretili olan ölçüler motor markasına göre farklılık gösterir. / Note: The dimensions which have (...) sign vary depending on the motor. / Hinweis: (...) Die gekennzeichneten Maße unterscheiden sich je nach Motormarke.

PKD G 9390/62 PKD G 9390/63

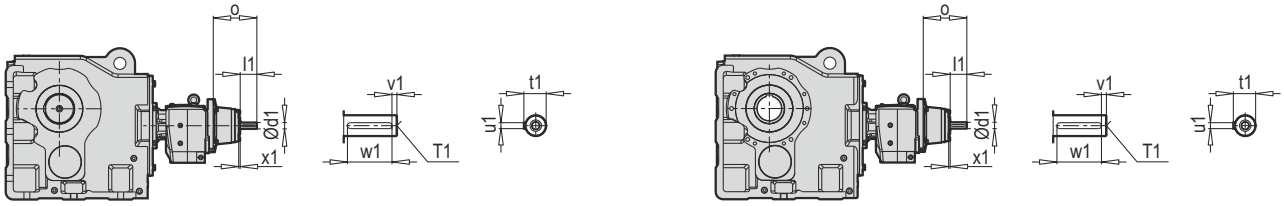
IEC



Tip / Type / Typ	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	PKD G 9390/62 o	PKD G 9390/63 o	~ Kg		
													IEC	PKD G 9390/62	PKD G 9390/63
PKD G9390/63	90	200	130	165	4.0	M10	24	50	27.3	8	-	109	90	-	1886
PKD G9390/62-G9390/63	100	250	180	215	5.0	M12	28	60	31.3	8	127	133	100	1902	1894
PKD G9390/62-G9390/63	112	250	180	215	5.0	M12	28	60	31.3	8	127	133	112	1902	1894
PKD G9390/62-G9390/63	132	300	230	265	5.0	M12	38	80	41.3	10	177	190	132	1916	1908
PKD G9390/62-G9390/63	160	350	250	300	6.0	M16	42	110	45.3	12	266	194	160	1942	1919
PKD G9390/62-G9390/63	180	350	250	300	6.0	M16	48	110	51.8	14	266	194	180	1942	1919
PKD G9390/62	200	400	300	350	6.0	M16	55	110	59.3	16	229	-	200	1957	-
PKD G9390/62	225	450	350	400	6.0	M16	60	140	64.4	18	303	-	225	1972	-

PKD G 9390/62 PKD G 9390/63

W

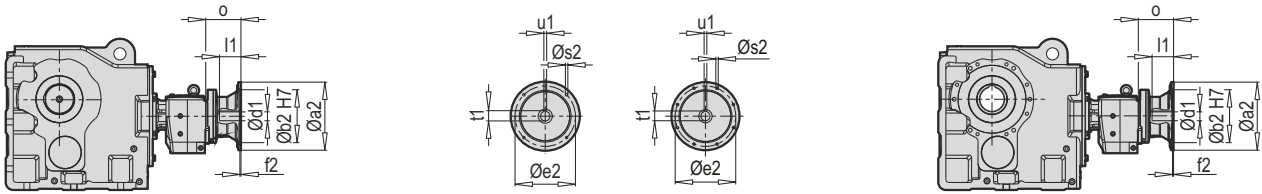


Tip / Type / Typ	Ød1	x1	l1	o	T1	t1	u1	v1	w1
PKD G 9390/62	42	8	110	288	M16	45.0	12	10	90
PKD G 9390/63	38	8	80	213	M12	41.0	10	5	70

W ~ $\bar{K}g$	
PKD G 9390/62	1891
PKD G 9390/63	1915

PKD G 9390/62 PKD G 9390/63

PAM B5/B14



Tip / Type / Typ	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	-

~ $\bar{K}g$		
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 / Typ	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

~ $\bar{K}g$		
PAM B14	PKD G 9390/62	PKD G 9390/63
90	-	1878
100	1878	1879
112	1878	1879
132	1885	1884

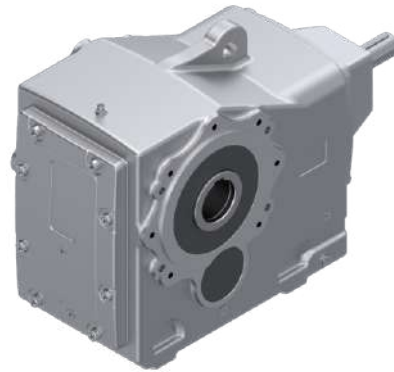
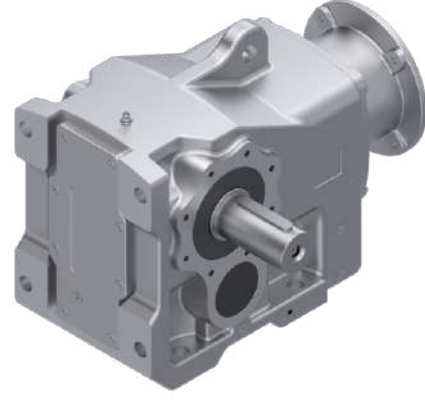


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W - IEC ve PAM Adaptörü Seçim Tabloları

Selection Of W-IEC and
PAM Adapters

Auswahltablelle von
W - PAM - IEC Adapters



PKD

W, IEC ve PAM adaptörü performans tabloları yapısı:
Performance tables for W - IEC and PAM adapter type
Der Aufbau der Leistungstabelle für W - IEC und PAM-Adapter

IEC'li yada PAM adaptörlü girişler için geçerli olan servis faktörü doğrudan motor montajlı redüktörler ile aynıdır. IEC ve PAM montajlı redüktörlerin servis faktörü f_B motorlu seçim sayfalarından bulunabilir.

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

Der Betriebsfaktor f_B für Antriebe mit IEC- oder PAM-Adapter ist der gleiche wie für Getriebe mit Motordirektanschluss. Den Betriebsfaktor f_B für Getriebe mit IEC- und PAM-Adapter finden Sie auf den Motorauswahltabellen.

Max. Giriş Gücü
Max. Input Power
Max. Antriebsleistung

Tip Type Typ	i_{ges}	4-pol. 50 Hz 1400 rpm n_2 [min ⁻¹]	M_{amax} $f_B=1$ 4 - pol. [Nm]	W $P_{1max} - f_B \geq 1$				IEC - PAM $f_B \Rightarrow$ 79 - 183						
				4 - pol. 1400rpm [kW]	6 - pol. 930rpm [kW]	8 - pol. 700rpm [kW]	12 - pol. 465rpm [kW]							
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							
					9.20	6.07	4.60	3.04						
				9.20	6.07	4.60	3.04							

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

P_{1max} value which is non-italic is calculated when service factor f_B is equal to one.
Bei der Berechnung der maximalen Antriebsleistung des Typs W wurden nicht kursive Werte verwendet. P_{1max} und $f_B = 1$

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

P_{1max} value which is *italic*, is calculated when service factor f_B is greater than one.
Bei der Berechnung von P_{1max} wurden für kursiv gedruckte Werte $f_B > 1$ verwendet.

Max. çıkış momenti
Max. output torque
Abtriebsdrehmoment

Çıkış Devri
Output speed
Leistungsgeschwindigkeit

Redüktör Tahvili
Reduction ratio
Verkleinerungsfaktor

Redüktör Tipi
Gear unit type
Getriebetyp

IEC motor büyüklükleri ve IEC standart çıkışları DIN EN 50347' e göredir.
IEC motor sizes and IEC standart outputs as per DIN EN 50347
IEC-Motorgößen und IEC-Standard-Abtriebe entsprechen DIN EN 50347.

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





*: Achtung P_{1max} in Spalte W darf nicht überschritten werden.

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

This area which is colorless is shown IEC adapter is applicable for this IEC motor size and reduction ratio.

Digitale Bereichen zeigen, dass IEC Adapter für IEC Motorgöße und der Wechselkurse ist.










71	80
71	80
	80
	80

Tip Type Typ	i _{ges}	4-pol. 50 Hz 1400 rpm n ₂ [min ⁻¹]	M _{amax} f _B =1 4 - pol. [Nm]	W				IEC - PAM								
				P _{1max} - f _B ≥ 1				f _B ⇔ 79 - 183								
				4 - pol. 1400rpm [kW]	6 - pol. 930rpm [kW]	8 - pol. 700rpm [kW]	12 - pol. 465rpm [kW]									
PKD A 0290  178 + IEC - PAM  178 - 179	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	90					
	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	90						
PKD B 0290  182 + IEC - PAM  182 - 183	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 / Keine IEC - PAM-Verbindung

63 IEC - PAM bağlantısı yapılır / IEC - PAM assembling available on numbered fields / IEC - PAM-Verbindung möglich




80* IEC - PAM bağlantısı yapılacaksa P_{1max} değerleri aşılmamalıdır - Do not exceed the P_{1max} values indicated on fields with asterisk / Bei IEC - PAM-Verbindungen, sollten die P_{1max}-Werte nicht überschritten werden.

Tip Type Typ	i _{ges}	4-pol. 50 Hz 1400 rpm n ₂ [min ⁻¹]	M _{amax} f _B =1 4 - pol. [Nm]	W				IEC - PAM											
				P _{1max} - f _B ≥ 1				f _B ⇔  79 - 183											
				4 - pol. 1400rpm [kW]	6 - pol. 930rpm [kW]	8 - pol. 700rpm [kW]	12 - pol. 465rpm [kW]												
PKD C 1290   186 + IEC - PAM   186 - 187	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   190 + IEC - PAM   190 - 191	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 / Keine IEC - PAM-Verbindung

63 IEC - PAM bağlantısı yapılır / IEC - PAM assembling available on numbered fields / IEC - PAM-Verbindung möglich










80* IEC - PAM bağlantısı yapılacaksa P_{1max} değerleri aşılmamalıdır - Do not exceed the P_{1max} values indicated on fields with asterisk / Bei IEC - PAM-Verbindungen, sollten die P_{1max}-Werte nicht überschritten werden.

Tip Type Typ	i _{ges}	4-pol. 50 Hz 1400 rpm n ₂ [min ⁻¹]	M _{amax} f _B =1 4 - pol. [Nm]	W P _{1max} - f _B ≥ 1				IEC - PAM f _B ⇔  79 - 183								
				4 - pol. 1400rpm [kW]	6 - pol. 930rpm [kW]	8 - pol. 700rpm [kW]	12 - pol. 465rpm [kW]									
											63	71	80			
PKD H 5290	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						
 194	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*		
IEC - PAM  194 - 195	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							132		
	5.43	257.7	425	9.20	6.07	4.60	3.04							132		
	4.80	291.9	410	9.20	6.07	4.60	3.04							132		

IEC - PAM bağlantısı yoktur / No IEC - PAM assembling on empty fields / Keine IEC - PAM-Verbindung

63 IEC - PAM bağlantısı yapılır / IEC - PAM assembling available on numbered fields / IEC - PAM-Verbindung möglich










80* IEC - PAM bağlantısı yapılacaktır P_{1max} değerleri aşılmamalıdır - Do not exceed the P_{1max} values indicated on fields with asterisk / Bei IEC - PAM-Verbindungen, sollten die P_{1max}-Werte nicht überschritten werden.

Tip Type Typ	i _{ges}	4-pol. 50 Hz 1400 rpm n ₂ [min ⁻¹]	M _{amax} f _B =1 4 - pol. [Nm]	W				IEC - PAM										
				P _{1max} - f _B ≥ 1				f _B ⇔  79 - 183										
				4 - pol. 1400rpm [kW]	6 - pol. 930rpm [kW]	8 - pol. 700rpm [kW]	12 - pol. 465rpm [kW]											
PKD 1490   202 + IEC - PAM   202 - 203	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   198 + IEC - PAM   198 - 199	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 / Keine IEC - PAM-Verbindung

63 IEC - PAM bağlantısı yapılır / IEC - PAM assembling available on numbered fields / IEC - PAM-Verbindung möglich










80* IEC - PAM bağlantısı yapılacaksa P_{1max} değerleri aşılmamalıdır - Do not exceed the P_{1max} values indicated on fields with asterisk / Bei IEC - PAM-Verbindungen, sollten die P_{1max}-Werte nicht überschritten werden.

Tip Type Typ	i _{ges}	4-pol. 50 Hz 1400 rpm n ₂ [min ⁻¹]	M _{amax} f _B =1 4 - pol. [Nm]	W P _{1max} - f _B ≥ 1				IEC - PAM f _B ⇔  79 - 183								
				4 - pol. 1400rpm [kW]	6 - pol. 930rpm [kW]	8 - pol. 700rpm [kW]	12 - pol. 465rpm [kW]									
										63*	71*					
PKD G 1490	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*							
	 210 493.33	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*						
	IEC - PAM	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							
	 210 - 211 134.41	10.40	430	0.37	0.24	0.19	0.12	63	71							
PKD G 1390	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*						
	 206 149.85	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					
	IEC - PAM	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*					
	 206 - 207 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 / Keine IEC - PAM-Verbindung

63 IEC - PAM bağlantısı yapılır / IEC - PAM assembling available on numbered fields / IEC - PAM-Verbindung möglich










80* IEC - PAM bağlantısı yapılacaktır P_{1max} değerleri aşılmamalıdır - Do not exceed the P_{1max} values indicated on fields with asterisk / Bei IEC - PAM-Verbindungen, sollten die P_{1max}-Werte nicht überschritten werden.

Tip Type Typ	i _{ges}	4-pol. 50 Hz 1400 rpm n ₂ [min ⁻¹]	M _{amax} f _B =1 4 - pol. [Nm]	W				IEC - PAM									
				P _{1max} - f _B ≥ 1				f _B ⇔  79 - 183									
				4 - pol. 1400rpm [kW]	6 - pol. 930rpm [kW]	8 - pol. 700rpm [kW]	12 - pol. 465rpm [kW]										
PKD 2490   218 + IEC - PAM   218 - 219	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   214 + IEC - PAM   214 - 215	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			80							
	98.92	14.20	860	1.27	0.85	0.64	0.42		63	71	80	90*					
	85.23	16.40	860	1.48	0.98	0.74	0.49			71	80						
	78.85	17.80	860	1.60	1.06	0.80	0.53		63	71	80	90	100*	112*			
	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		63	71	80	90	100*	112*			
	31.43	44.50	820	3.82	2.54	1.91	1.27					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		63	71	80	90	100	112			
	17.52	79.90	720	4.00	2.64	2.00	1.32					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 / Keine IEC - PAM-Verbindung

63 IEC - PAM bağlantısı yapılır / IEC - PAM assembling available on numbered fields / IEC - PAM-Verbindung möglich










80* IEC - PAM bağlantısı yapılacaksa P_{1max} değerleri aşılmamalıdır - Do not exceed the P_{1max} values indicated on fields with asterisk / Bei IEC - PAM-Verbindungen, sollten die P_{1max}-Werte nicht überschritten werden.

Tip Type Typ	i _{ges}	4-pol. 50 Hz 1400 rpm n ₂ [min ⁻¹]	M _{amax} f _B =1 4 - pol. [Nm]	W P _{1max} - f _B ≥ 1				IEC - PAM							
				P _{1max} - f _B ≥ 1				f _B ⇔  79 - 183							
				4 - pol. 1400rpm [kW]	6 - pol. 930rpm [kW]	8 - pol. 700rpm [kW]	12 - pol. 465rpm [kW]								
PKD 3490   226 + IEC - PAM   226 - 227	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   222 + IEC - PAM   222 - 223	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 / Keine IEC - PAM-Verbindung

63 IEC - PAM bağlantısı yapılır / IEC - PAM assembling available on numbered fields / IEC - PAM-Verbindung möglich










80* IEC - PAM bağlantısı yapılacaksa P_{1max} değerleri aşılmamalıdır - Do not exceed the P_{1max} values indicated on fields with asterisk / Bei IEC - PAM-Verbindungen, sollten die P_{1max}-Werte nicht überschritten werden.

Tip Type Typ	i _{ges}	4-pol. 50 Hz 1400 rpm n ₂ [min ⁻¹]	M _{amax} f _B =1 4 - pol. [Nm]	W P _{1max} - f _B ≥ 1				IEC - PAM f _B ⇔  79 - 183							
				4 - pol. 1400rpm [kW]	6 - pol. 930rpm [kW]	8 - pol. 700rpm [kW]	12 - pol. 465rpm [kW]								
									71*	80*					
PKD 4490   234 + IEC - PAM   234 - 235	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   230 + IEC - PAM   230 - 231	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 / Keine IEC - PAM-Verbindung

63 IEC - PAM bağlantısı yapılır / IEC - PAM assembling available on numbered fields / IEC - PAM-Verbindung möglich














80* IEC - PAM bağlantısı yapılacaksa P_{1max} değerleri aşılmamalıdır - Do not exceed the P_{1max} values indicated on fields with asterisk / Bei IEC - PAM-Verbindungen, sollten die P_{1max}-Werte nicht überschritten werden.

Tip Type Typ	i _{ges}	4-pol. 50 Hz 1400 rpm n ₂ [min ⁻¹]	M _{amax} f _B =1 4 - pol. [Nm]	W P _{1max} - f _B ≥ 1				IEC - PAM f _B ⇔  79 - 183								
				4 - pol. 1400rpm [kW]	6 - pol. 930rpm [kW]	8 - pol. 700rpm [kW]	12 - pol. 465rpm [kW]									
										71*	80*	90*				
PKD 5490   242 + IEC - PAM   242 - 243	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   238 + IEC - PAM   238 - 239	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 / Keine IEC - PAM-Verbindung

63 IEC - PAM bağlantısı yapılır / IEC - PAM assembling available on numbered fields / IEC - PAM-Verbindung möglich








80* IEC - PAM bağlantısı yapılacaksa P_{1max} değerleri aşılmamalıdır - Do not exceed the P_{1max} values indicated on fields with asterisk / Bei IEC - PAM-Verbindungen, sollten die P_{1max}-Werte nicht überschritten werden.

Tip Type Typ	i _{ges}	4-pol. 50 Hz 1400 rpm n ₂ [min ⁻¹]	M _{amax} f _B =1 4 - pol. [Nm]	W P _{1max} - f _B ≥ 1				IEC - PAM f _B ⇔  79 - 183										
				4 - pol. 1400rpm [kW]	6 - pol. 930rpm [kW]	8 - pol. 700rpm [kW]	12 - pol. 465rpm [kW]											
PKD 6390/32   269 + IEC - PAM   268 - 269	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   269 + IEC - PAM   268 - 269	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   246 + IEC - PAM   246 - 247	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 / Keine IEC - PAM-Verbindung

63 IEC - PAM bağlantısı yapılır / IEC - PAM assembling available on numbered fields / IEC - PAM-Verbindung möglich














80* IEC - PAM bağlantısı yapılacaksa P_{1max} değerleri aşılmamalıdır - Do not exceed the P_{1max} values indicated on fields with asterisk / Bei IEC - PAM-Verbindungen, sollten die P_{1max}-Werte nicht überschritten werden.

Tip Type Typ	i _{ges}	4-pol. 50 Hz 1400 rpm n ₂ [min ⁻¹]	M _{amax} f _B =1 4 - pol. [Nm]	W P _{1max} - f _B ≥ 1				IEC - PAM										
				P _{1max} - f _B ≥ 1				f _B ⇔  79 - 183										
				4 - pol. 1400rpm [kW]	6 - pol. 930rpm [kW]	8 - pol. 700rpm [kW]	12 - pol. 465rpm [kW]	f _B		f _B		f _B						
PKD 7390/32	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*					
	IEC - PAM	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*			
	 268 - 269	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	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*						
																		
 268 - 269																		
PKD 7390	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*						
	IEC - PAM	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*			
	 250 - 251	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			

IEC - PAM bağlantısı yoktur / No IEC - PAM assembling on empty fields / Keine IEC - PAM-Verbindung

63 IEC - PAM bağlantısı yapılır / IEC - PAM assembling available on numbered fields / IEC - PAM-Verbindung möglich










80* IEC - PAM bağlantısı yapılacaksa P_{1max} değerleri aşılmamalıdır - Do not exceed the P_{1max} values indicated on fields with asterisk / Bei IEC - PAM-Verbindungen, sollten die P_{1max}-Werte nicht überschritten werden.

Tip Type Typ	i _{ges}	4-pol. 50 Hz 1400 rpm n ₂ [min ⁻¹]	M _{amax} f _B =1 4 - pol. [Nm]	W				IEC - PAM									
				P _{1max} - f _B ≥ 1				f _B ⇔  79 - 183									
				4 - pol. 1400rpm [kW]	6 - pol. 930rpm [kW]	8 - pol. 700rpm [kW]	12 - pol. 465rpm [kW]										
PKD 8390/32   271 + IEC - PAM   270 - 271	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   271 + IEC - PAM   270 - 271	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   254 + IEC - PAM   254 - 255	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 / Keine IEC - PAM-Verbindung

63 IEC - PAM bağlantısı yapılır / IEC - PAM assembling available on numbered fields / IEC - PAM-Verbindung möglich










80* IEC - PAM bağlantısı yapılacaksa P_{1max} değerleri aşılmamalıdır - Do not exceed the P_{1max} values indicated on fields with asterisk / Bei IEC - PAM-Verbindungen, sollten die P_{1max}-Werte nicht überschritten werden.

Tip Type Typ	i _{ges}	4-pol. 50 Hz 1400 rpm n ₂ [min ⁻¹]	M _{amax} f _B =1 4 - pol. [Nm]	W				IEC - PAM									
				P _{1max} - f _B ≥ 1				f _B ⇔  79 - 183									
				4 - pol. 1400rpm [kW]	6 - pol. 930rpm [kW]	8 - pol. 700rpm [kW]	12 - pol. 465rpm [kW]	90*	100*	112*							
PKD G 8390/52   271 + IEC - PAM   270 - 271	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   258 + IEC - PAM   258 - 259	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	<i>160.00</i>	<i>105.60</i>	<i>80.00</i>	<i>52.80</i>					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	<i>160.00</i>	<i>105.60</i>	<i>80.00</i>	<i>52.80</i>	132	160	180	200	225	250	280	315*		
	11.63	120.40	17000	<i>160.00</i>	<i>105.60</i>	<i>80.00</i>	<i>52.80</i>	132	160	180	200	225	250	280	315*		
	9.54	146.80	13000	<i>160.00</i>	<i>105.60</i>	<i>80.00</i>	<i>52.80</i>			180	200	225	250	280	315*		
8.06	173.70	12000	<i>160.00</i>	<i>105.60</i>	<i>80.00</i>	<i>52.80</i>	132	160	180	200	225	250	280	315*			

IEC - PAM bağlantısı yoktur / No IEC - PAM assembling on empty fields / Keine IEC - PAM-Verbindung

63 IEC - PAM bağlantısı yapılır / IEC - PAM assembling available on numbered fields / IEC - PAM-Verbindung möglich









80* IEC - PAM bağlantısı yapılacaksa P_{1max} değerleri aşılmamalıdır - Do not exceed the P_{1max} values indicated on fields with asterisk / Bei IEC - PAM-Verbindungen, sollten die P_{1max}-Werte nicht überschritten werden.

Tip Type Typ	i _{ges}	4-pol. 50 Hz 1400 rpm n ₂ [min ⁻¹]	M _{amax} f _B =1 4 - pol. [Nm]	W P _{1max} - f _B ≥ 1				IEC - PAM f _B ⇔  79 - 183										
				4 - pol. 1400rpm [kW]	6 - pol. 930rpm [kW]	8 - pol. 700rpm [kW]	12 - pol. 465rpm [kW]											
											90*	100*	112*					
PKD 9390/52   271 + IEC - PAM   270 - 271	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   262 + IEC - PAM   262 - 263	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 / Keine IEC - PAM-Verbindung

63 IEC - PAM bağlantısı yapılır / IEC - PAM assembling available on numbered fields / IEC - PAM-Verbindung möglich

80* IEC - PAM bağlantısı yapılacaksa P_{1max} değerleri aşılmamalıdır - Do not exceed the P_{1max} values indicated on fields with asterisk / Bei IEC - PAM-Verbindungen, sollten die P_{1max}-Werte nicht überschritten werden.

Tip Type Typ	i _{ges}	4-pol. 50 Hz 1400 rpm n ₂ [min ⁻¹]	M _{amax} f _B =1 4 - pol. [Nm]	W P _{1max} - f _B ≥ 1				IEC - PAM f _B ⇔ 79 - 183								
				P _{1max} - f _B ≥ 1												
				4 - pol. 1400rpm [kW]	6 - pol. 930rpm [kW]	8 - pol. 700rpm [kW]	12 - pol. 465rpm [kW]									
PKD G 9390/63   + IEC - PAM  	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   + IEC - PAM  	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 / Keine IEC - PAM-Verbindung

63 IEC - PAM bağlantısı yapılır / IEC - PAM assembling available on numbered fields / IEC - PAM-Verbindung möglich

80* IEC - PAM bağlantısı yapılacaksa P_{1max} değerleri aşılmamalıdır - Do not exceed the P_{1max} values indicated on fields with asterisk / Bei IEC - PAM-Verbindungen, sollten die P_{1max}-Werte nicht überschritten werden.

Tip Type Typ	i _{ges}	4-pol. 50 Hz 1400 rpm n ₂ [min ⁻¹]	M _{amax} f _B =1 4 - pol. [Nm]	W P _{1max} - f _B ≥ 1				IEC - PAM f _B ⇔ 79 - 183								
				4 - pol. 1400rpm [kW]	6 - pol. 930rpm [kW]	8 - pol. 700rpm [kW]	12 - pol. 465rpm [kW]									
												132	160	180	200	225*
PKD G 9390	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*				
W 	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*		
266	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*	
IEC - PAM 	70.41	20.0	50000	104.71	69.11	52.36	34.56			180	200	225	250	280	315*	
	266 - 267	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 / Keine IEC - PAM-Verbindung

63 IEC - PAM bağlantısı yapılır / IEC - PAM assembling available on numbered fields / IEC - PAM-Verbindung möglich

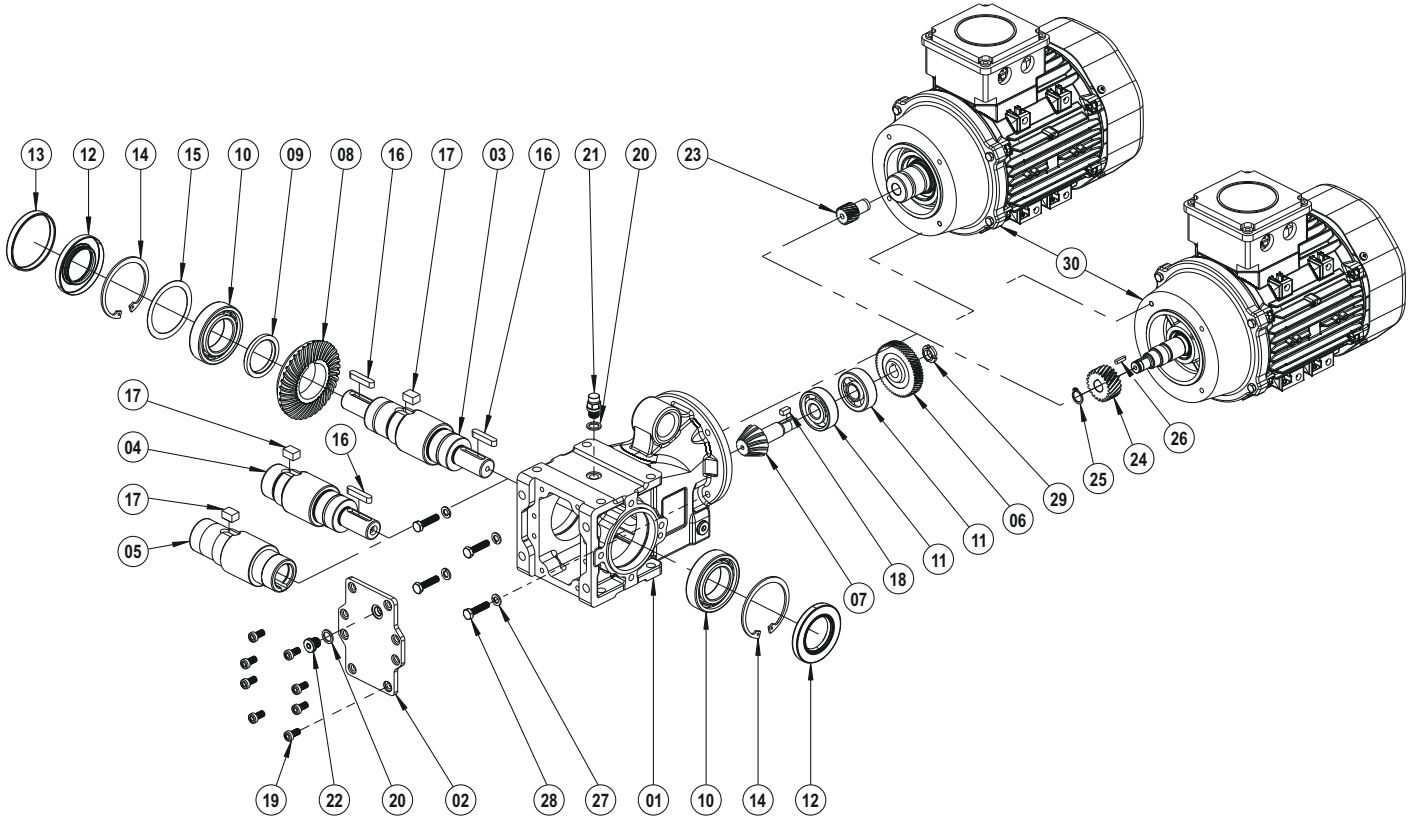
80* IEC - PAM bağlantısı yapılacaksa P_{1max} değerleri aşılmamalıdır - Do not exceed the P_{1max} values indicated on fields with asterisk / Bei IEC - PAM-Verbindungen, sollten die P_{1max}-Werte nicht überschritten werden.

PKD A 0290
DA - TMA - ÇMA - DG - TMG

Patlatma resmi gövde boyutu ve motor büyüklüğüne göre değişiklik gösterebilir, ayrıntılı patlatma resmi için firmamız ile iletişime geçiniz.

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Die Explosionszeichnung kann je nach Gehäusegröße und Motorgröße variieren. Für die detaillierte Explosionszeichnung wenden Sie sich bitte an unser Unternehmen.



- 01 Gövde
- 02 Kapak
- 03 Çift Çıkış Mili
- 04 Tek Çıkış Mili
- 05 Çıkış Şaftı
- 06 Z2 Dişlisi
- 07 Z3 Dişlisi
- 08 Z4 Dişlisi
- 09 Burç
- 10 Rulman
- 11 Rulman
- 12 Yağ Keçesi
- 13 Yağ Kapağı
- 14 Segman (DIN 472)
- 15 Layner (DIN 988)
- 16 Kama (DIN 6885)
- 17 Kama (DIN 6885)
- 18 Kama (DIN 6885)
- 19 Cıvata (DIN 912)
- 20 Rondela (DIN 7603)
- 21 Havalandırma Tapası
- 22 Yağ Tapası (DIN 908)
- 23 Z1 Dişlisi
- 24 Z1 Dişlisi (Kamalı)
- 25 Segman (DIN 471)
- 26 Kama (DIN 6885)
- 27 Rondela (DIN 127)
- 28 Cıvata (DIN 933)
- 29 Somun (DIN 981)
- 30 Motor

- 01 Gear Case
- 02 Cover
- 03 Output Solid Shaft
- 04 Output Solid Shaft
- 05 Hollow Shaft
- 06 Driving Gear
- 07 Pinion Shaft
- 08 Driven Gear
- 09 Spacer
- 10 Bearing
- 11 Bearing
- 12 Oil Seal
- 13 Oil Cover
- 14 Circlip (DIN 472)
- 15 Shim
- 16 Key (DIN 6885)
- 17 Key (DIN 6885)
- 18 Key (DIN 6885)
- 19 Bolt (DIN 912)
- 20 Washer (DIN 7603)
- 21 Vent Plug
- 22 Oil Plug (DIN 908)
- 23 Driving Pinion
- 24 Driving Pinion (With Key)
- 25 Circlip (DIN 471)
- 26 Key (DIN 6885)
- 27 Washer (DIN 127)
- 28 Bolt (DIN 933)
- 29 Nut (DIN 981)
- 30 Motor

- 01 Gehäuse
- 02 Abdeckung
- 03 Abtriebswelle
- 04 Abtriebswelle
- 05 Hohlwelle
- 06 Antriebsrad
- 07 Ritzelwelle
- 08 Abtriebsrad
- 09 Distanzbuchse
- 10 Kugellager
- 11 Kugellager
- 12 Öldichtung
- 13 Ölbedeckung
- 14 Sicherungsring (DIN 472)
- 15 Passscheibe (DIN 988)
- 16 Passfeder (DIN 6885)
- 17 Passfeder (DIN 6885)
- 18 Passfeder (DIN 6885)
- 19 Verschrauben (DIN 912)
- 20 Distanzscheibe (DIN 7603)
- 21 Entlüftungstopfen
- 22 Ölstöpsel (DIN 908)
- 23 Antriebsritzel
- 24 Antriebsritzel (mit Passfeder)
- 25 Sicherungsring (DIN 471)
- 26 Passfeder (DIN 6885)
- 27 Distanzscheibe (DIN 127)
- 28 Verschrauben (DIN 933)
- 29 Schraubenmutter (DIN 981)
- 30 Motor

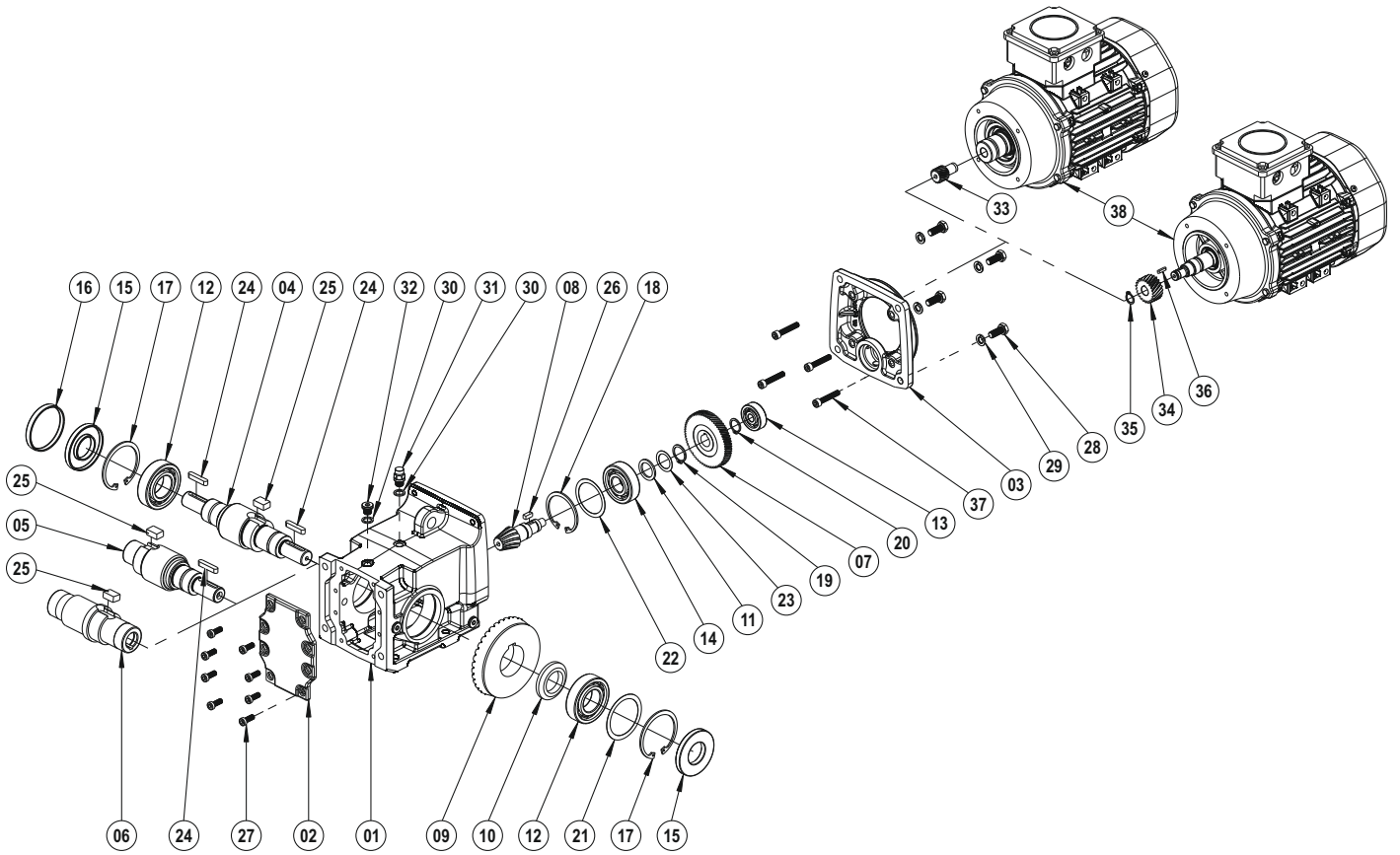
PKD B 0290 ... H 5290

DA - TMA - ÇMA - DG - TMG

Patlatma resmi gövde boyutu ve motor büyüklüğüne göre değişiklik gösterebilir, ayrıntılı patlatma resmi için firmamız ile iletişime geçiniz.

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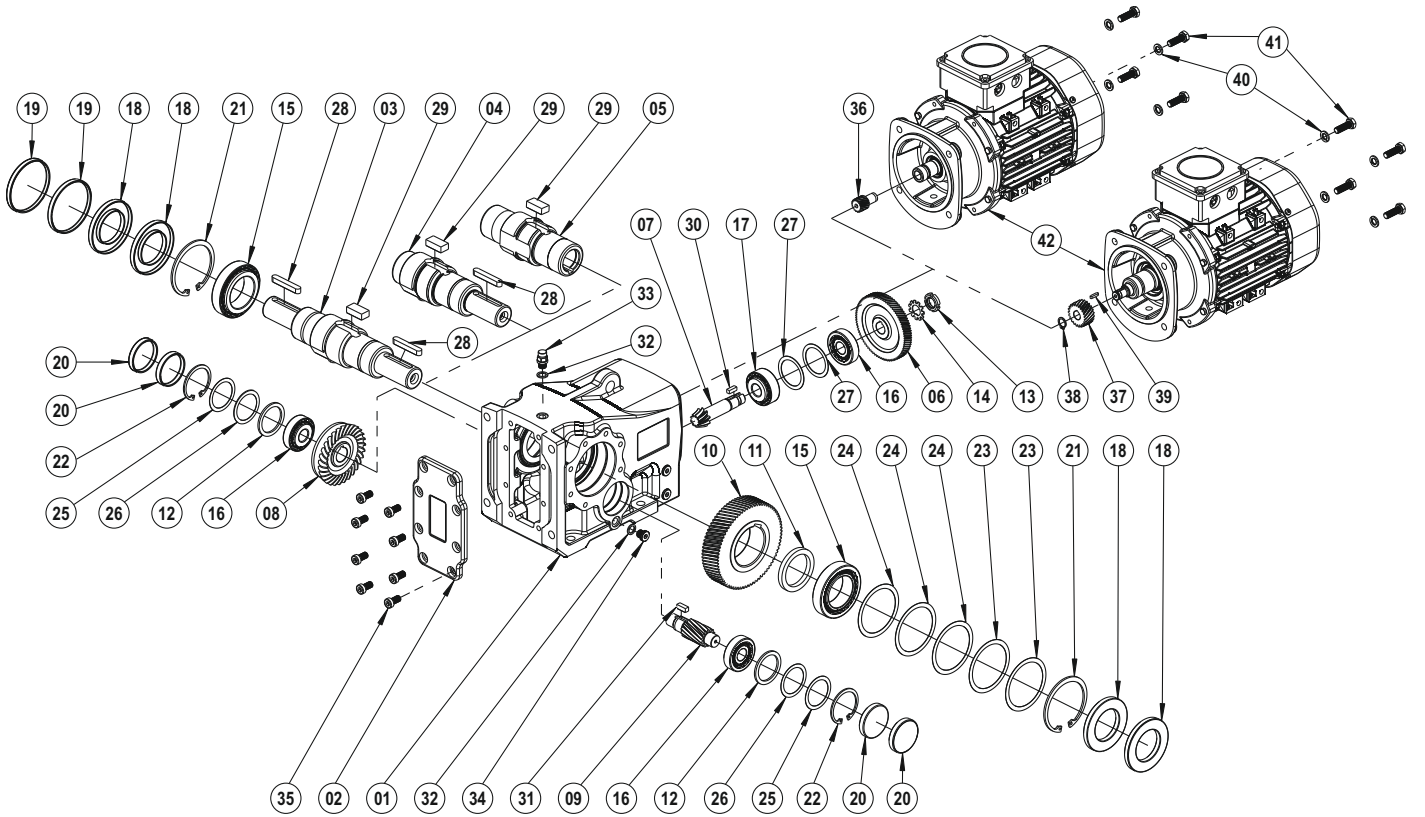
01	Gövde	20	Segman (DIN 471)	01	Gear Case	20	Circlip (DIN 471)	01	Gehäuse	20	Sicherungsring (DIN 471)
02	Kapak	21	Layner (DIN 988)	02	Cover	21	Shim (DIN 988)	02	Kapak	21	Passscheibe (DIN 988)
03	Ara Bağlantı Flanşı	22	Layner (DIN 988)	03	Intermediate Flange	22	Shim (DIN 988)	03	Zwischenflansch	22	Passscheibe (DIN 988)
04	Çift Çıkış Mili	23	Layner (DIN 988)	04	Output Solid Shaft	23	Shim (DIN 988)	04	Abtriebswelle	23	Passscheibe (DIN 988)
05	Tek Çıkış Mili	24	Kama (DIN 6885)	05	Output Solid Shaft	24	Key (DIN 6885)	05	Abtriebswelle	24	Passfeder (DIN 6885)
06	Çıkış Şaftı	25	Kama (DIN 6885)	06	Hollow Shaft	25	Key (DIN 6885)	06	Hohlwelle	25	Passfeder (DIN 6885)
07	Z2 Dişlisi	26	Kama (DIN 6885)	07	Driving Gear	26	Key (DIN 6885)	07	Antriebsrad	26	Passfeder (DIN 912)
08	Z3 Dişlisi	27	Cıvata (DIN 912)	08	Pinion Shaft	27	Bolt (DIN 912)	08	Ritzelwelle	27	Verschrauben (DIN 912)
09	Z4 Dişlisi	28	Cıvata (DIN 933)	09	Driven Gear	28	Bolt (DIN 933)	09	Abtriebsrad	28	Verschrauben (DIN 933)
10	Burç	29	Rondela (DIN 127)	10	Spacer	29	Washer (DIN 127)	10	Distanzbuchse	29	Distanzscheibe (DIN 127)
11	Rondela	30	Rondela (DIN 7603)	11	Washer	30	Washer (DIN 7603)	11	Distanzscheibe	30	Distanzscheibe (DIN 7603)
12	Rulman	31	Havalandırma Tapası	12	Bearing	31	Vent Plug	12	Kugellager	31	Entlüftungstopfen
13	Rulman	32	Yağ Tapası (DIN 908)	13	Bearing	32	Oil Plug (DIN 908)	13	Kugellager	32	Ölstöpsel (DIN 908)
14	Rulman	33	Z1 Dişlisi	14	Bearing	33	Driving Pinion	14	Kugellager	33	Antriebsritzel
15	Yağ Keçesi	34	Z1 Dişlisi (Kamalı)	15	Oil Seal	34	Driving Pinion (With Key)	15	Öldichtung	34	Antriebsritzel (mit Passfeder)
16	Yağ Kapağı	35	Segman (DIN 471)	16	Oil Cover	35	Circlip (DIN 471)	16	Ölabdeckung	35	Sicherungsring (DIN 471)
17	Segman (DIN 472)	36	Kama (DIN 6885)	17	Circlip (DIN 472)	36	Key (DIN 6885)	17	Sicherungsring (DIN 472)	36	Passfeder (DIN 6885)
18	Segman (DIN 472)	37	Cıvata (DIN 912)	18	Circlip (DIN 472)	37	Bolt (DIN 912)	18	Sicherungsring (DIN 472)	37	Verschrauben (DIN 912)
19	Segman (DIN 471)	38	Motor	19	Circlip (DIN 471)	38	Motor	19	Sicherungsring (DIN 471)	38	Motor

PKD 1390 ... G 9390
DA - TMA - ÇMA - DG - TMG

Patlatma resmi gövde boyutu ve motor büyüklüğüne göre değişiklik gösterebilir, ayrıntılı patlatma resmi için firmamız ile iletişime geçiniz.

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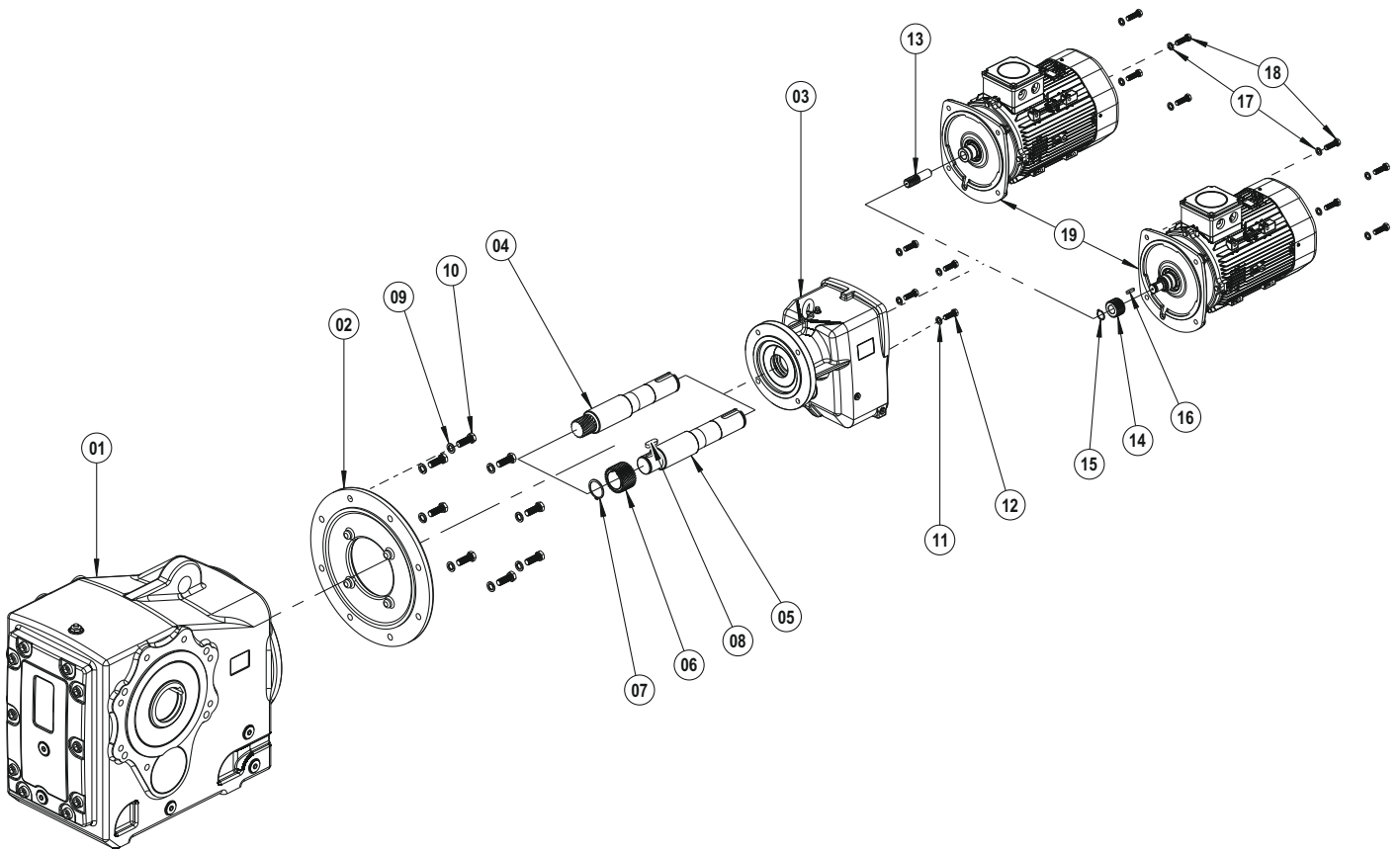
01 Gövde	22 Segman (DIN 472)	01 Gear Case	22 Circlip (DIN 472)	01 Gehäuse	22 Sicherungsring (DIN 472)
02 Kapak	23 Layner (DIN 988)	02 Cover	23 Shim (DIN 988)	02 Abdeckung	23 Passscheibe (DIN 988)
03 Çift Çıkış Mili	24 Layner (DIN 988)	03 Output Solid Shaft	24 Shim (DIN 988)	03 Abtriebswelle	24 Passscheibe (DIN 988)
04 Tek Çıkış Mili	25 Layner (DIN 988)	04 Output Solid Shaft	25 Shim (DIN 988)	04 Abtriebswelle	25 Passscheibe (DIN 988)
05 Çıkış Şaftı	26 Layner (DIN 988)	05 Hollow Shaft	26 Shim (DIN 988)	05 Hohlwelle	26 Passscheibe (DIN 988)
06 Z2 Dişlisi	27 Layner (DIN 988)	06 Driving Gear	27 Shim (DIN 988)	06 Antriebsrad	27 Passscheibe (DIN 988)
07 Z3 Dişlisi	28 Kama (DIN 6885)	07 Pinion Shaft	28 Key (DIN 6885)	07 Ritzelwelle	28 Passfeder (DIN 6885)
08 Z4 Dişlisi	29 Kama (DIN 6885)	08 Driven Gear	29 Key (DIN 6885)	08 Abtriebsrad	29 Passfeder (DIN 6885)
09 Z5 Dişlisi	30 Kama (DIN 6885)	09 Pinion Shaft	30 Key (DIN 6885)	09 Ritzelwelle	30 Passfeder (DIN 6885)
10 Z6 Dişlisi	31 Kama (DIN 6885)	10 Driven Gear	31 Key (DIN 6885)	10 Abtriebsrad	31 Passfeder (DIN 6885)
11 Burç	32 Rondela (DIN 7603)	11 Spacer	32 Washer (DIN 7603)	11 Distanzbuchse	32 Distanzscheibe (DIN 7603)
12 Rondela	33 Havalandırma Tapası	12 Washer	33 Vent Plug	12 Distanzscheibe	33 Entlüftungsstopfen
13 Somun (DIN 981)	34 Yağ Tapası (DIN 908)	13 Nut (DIN 981)	34 Oil Plug (DIN 908)	13 Schraubmutter (DIN 981)	34 Ölstopse
14 Rondela (DIN 5406)	35 Cıvata (DIN 912)	14 Washer (DIN 5406)	35 Bolt (DIN 912)	14 Distanzscheibe (DIN 5406)	35 Verschrauben (DIN 912)
15 Rulman	36 Z1 Dişlisi	15 Bearing	36 Driving Pinion	15 Kugellager	36 Antriebsritzel
16 Rulman	37 Z1 Dişlisi (Kamalı)	16 Bearing	37 Driving Pinion (With Key)	16 Kugellager	37 Antriebsritzel (mit Passfeder)
17 Rulman	38 Segman (DIN 471)	17 Bearing	38 Circlip (DIN 471)	17 Kugellager	38 Sicherungsring (DIN 471)
18 Yağ Keçesi	39 Kama (DIN 6885)	18 Oil Seal	39 Key (DIN 6885)	18 Öldichtung	39 Passfeder (DIN 6885)
19 Yağ Kapağı	40 Rondela (DIN 127)	19 Oil Cover	40 Washer (DIN 127)	19 Ölbaddeckung	40 Distanzscheibe (DIN 127)
20 Yağ Kapağı	41 Cıvata (DIN 933)	20 Oil Cover	41 Bolt (DIN 933)	20 Ölbaddeckung	41 Verschrauben (DIN 933)
21 Segman (DIN 472)	42 Motor	21 Circlip (DIN 472)	42 Motor	21 Sicherungsring (DIN 472)	42 Motor

PKD 6390/32 ... G 9390/63

Patlatma resmi gövde boyutu ve motor büyüklüğüne göre değişiklik gösterebilir, ayrıntılı patlatma resmi için firmamız ile iletişime geçiniz.

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- 01 PKD Kit
- 02 Ara Bağlantı Flanşı
- 03 PF Kit
- 04 Ara Mil (Dişlili)
- 05 Ara Mil (Kamalı)
- 06 Ara Dişli (Kamalı)
- 07 Segman (DIN 471)
- 08 Kama (DIN 6885)
- 09 Rondela (DIN 127)
- 10 Cıvata (DIN 933)
- 11 Rondela (DIN 127)
- 12 Cıvata (DIN 933)
- 13 Z1 Dişlisi
- 14 Z1 Dişlisi (Kamalı)
- 15 Segman (DIN 471)
- 16 Kama (DIN 6885)
- 17 Rondela (DIN 127)
- 18 Cıvata (DIN 933)
- 19 Motor

- 01 PKD Kit
- 02 Intermediate Flange
- 03 PF Kit
- 04 Intermediate Shaft (With Gear)
- 05 Intermediate Shaft (With Key)
- 06 Intermediate Gear (With Key)
- 07 Circlip (DIN 471)
- 08 Key (DIN 6885)
- 09 Washer (DIN 127)
- 10 Bolt (DIN 933)
- 11 Washer (DIN 127)
- 12 Bolt (DIN 933)
- 13 Driving Pinion
- 14 Driving Pinion (With Key)
- 15 Circlip (DIN 471)
- 16 Key (DIN 6885)
- 17 Washer (DIN 127)
- 18 Bolt (DIN 933)
- 19 Motor

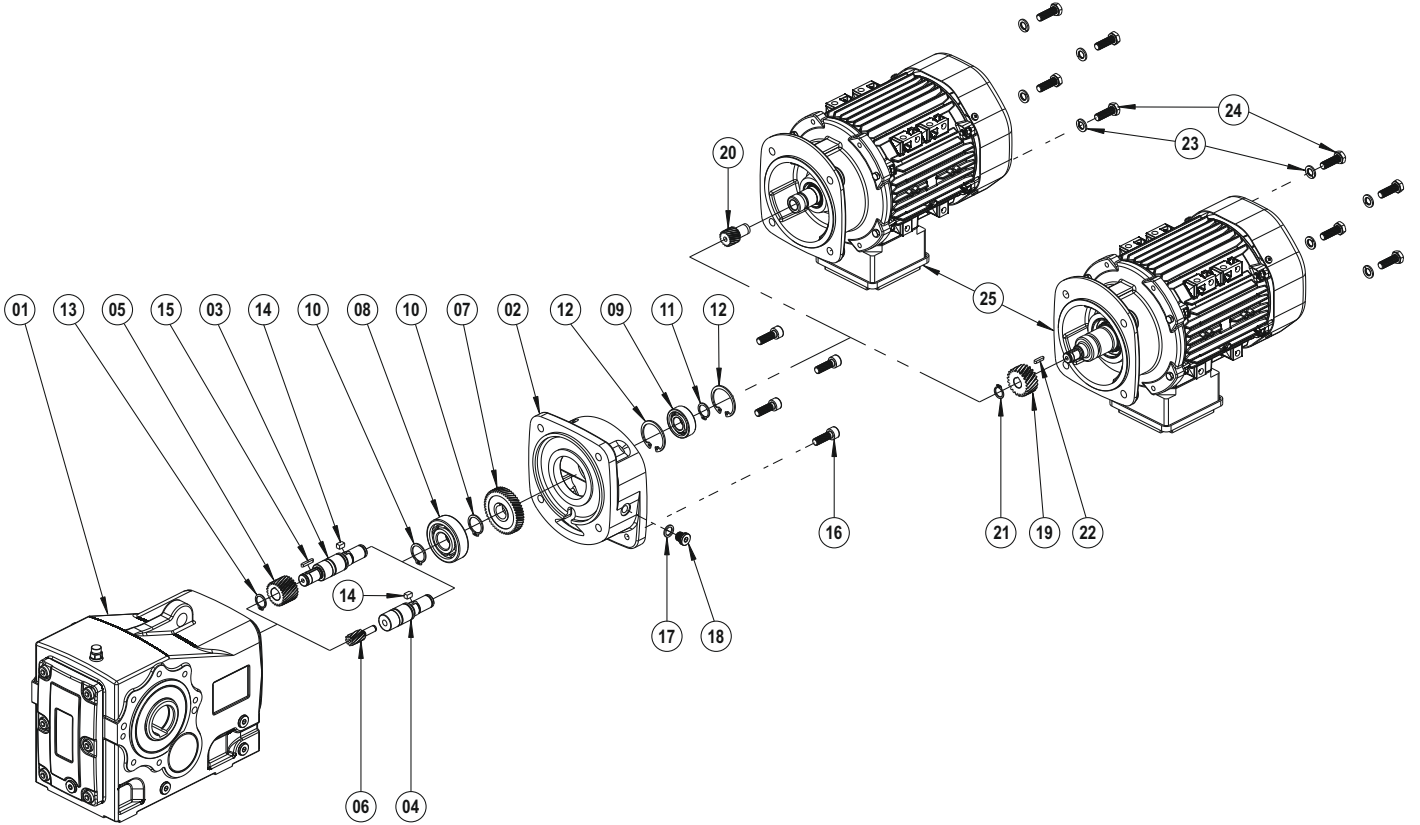
- 01 PKD Bausatz
- 02 Zwischenflansch
- 03 PF Bausatz
- 04 Übertragungswelle (mit Zahnrad)
- 05 Übertragungswelle (mit Passfeder)
- 06 Übertragungswelle (mit Passfeder)
- 07 Sicherungsring (DIN 471)
- 08 Passfeder (DIN 6885)
- 09 Distanzscheibe (DIN 127)
- 10 Verschrauben (DIN 933)
- 11 Distanzscheibe (DIN 127)
- 12 Verschrauben (DIN 933)
- 13 Antriebsritzel
- 14 Antriebsritzel (mit Passfeder)
- 15 Sicherungsring (DIN 471)
- 16 Passfeder (DIN 6885)
- 17 Distanzscheibe (DIN 127)
- 18 Verschrauben (DIN 933)
- 19 Motor

PKD 1390 ... G 9390
İndirgeyici Gövde / Reduction Gear Case / Anbauehäuse

Patlatma resmi gövde boyutu ve motor büyüklüğüne göre değişiklik gösterebilir, ayrıntılı patlatma resmi için firmamız ile iletişime geçiniz.

The exploded image may vary depending on the body and motor size, please contact us for the detailed exploded image.

Die Explosionszeichnung kann je nach Gehäusegröße und Motorgröße variieren. Für die detaillierte Explosionszeichnung wenden Sie sich bitte an unser Unternehmen.



- 01 PKD Kit
- 02 İndirgeyici Gövde
- 03 Ara Mil (Kamalı)
- 04 Ara Mil
- 05 Ara Dişli (Kamalı)
- 06 Ara Dişli
- 07 Z2 Dişlisi
- 08 Rulman
- 09 Rulman
- 10 Segman (DIN 471)
- 11 Segman (DIN 471)
- 12 Segman (DIN 472)
- 13 Segman (DIN 471)
- 14 Kama (DIN 6885)
- 15 Kama (DIN 6885)
- 16 Cıvata (DIN 912)
- 17 Rondela (DIN 7603)
- 18 Yağ Tıpası (DIN 908)
- 19 Z1 Dişlisi (Kamalı)
- 20 Z1 Dişlisi
- 21 Segman (DIN 471)
- 22 Kama (DIN 6885)
- 23 Rondela (DIN 127)
- 24 Cıvata (DIN 933)
- 25 Motor

- 01 PKD Kit
- 02 Reduction Gear Case
- 03 Intermediate Shaft (With Key)
- 04 Intermediate Shaft
- 05 Intermediate Gear (With Key)
- 06 Intermediate Gear
- 07 Driving Gear
- 08 Bearing
- 09 Bearing
- 10 Circlip (DIN 471)
- 11 Circlip (DIN 471)
- 12 Circlip (DIN 472)
- 13 Circlip (DIN 471)
- 14 Key (DIN 6885)
- 15 Key (DIN 6885)
- 16 Bolt (DIN 912)
- 17 Washer (DIN 7603)
- 18 Oil Plug (DIN 908)
- 19 Driving Pinion (With Key)
- 20 Driving Pinion
- 21 Circlip (DIN 471)
- 22 Key (DIN 6885)
- 23 Washer (DIN 127)
- 24 Bolt (DIN 933)
- 25 Motor

- 01 PKD Bausatz
- 02 Anbauehäuse
- 03 Übertragungswelle (mit Passfeder)
- 04 Übertragungswelle
- 05 Zwischengetriebe (mit Passfeder)
- 06 Zwischengetriebe
- 07 Antriebsrad
- 08 Kugellager
- 09 Kugellager
- 10 Sicherungsring (DIN 471)
- 11 Sicherungsring (DIN 471)
- 12 Sicherungsring (DIN 472)
- 13 Sicherungsring (DIN 471)
- 14 Passfeder (DIN 6885)
- 15 Passfeder (DIN 6885)
- 16 Verschrauben (DIN 912)
- 17 Distanzscheibe (DIN 7603)
- 18 Ölstöpsel (DIN 908)
- 19 Antriebsritzel (mit Passfeder)
- 20 Antriebsritzel
- 21 Sicherungsring (DIN 471)
- 22 Passfeder (DIN 6885)
- 23 Distanzscheibe (DIN 127)
- 24 Verschrauben (DIN 933)
- 25 Motor

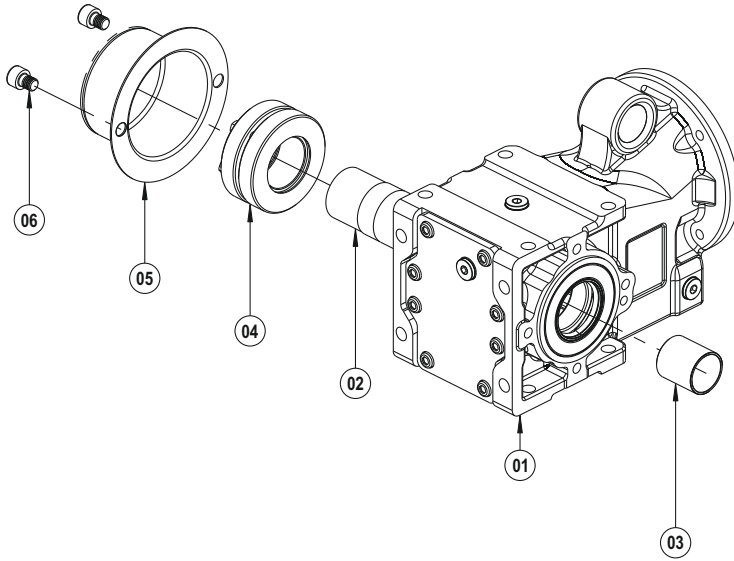
PKD A 0290

Aksesuarlar / Accessories / Zubehör

Patlatma resmi gövde boyutu ve motor büyüklüğüne göre değişiklik gösterebilir, ayrıntılı patlatma resmi için firmamız ile iletişime geçiniz.

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**Konik Sıkırma (KS)
Koruma Kapağı (KK)**

- 01 PKD Kit
- 02 Konik Sıkırma Şaftı
- 03 Konik Sıkırma Burcu
- 04 Konik Sıkırma
- 05 Konik Sıkırma Koruma Kapağı
- 06 Cıvata (DIN 912)

**Shrink Disk (KS)
Protection Cover (KK)**

- 01 PKD Kit
- 02 Shrink Disk Hollow Shaft
- 03 Shrink Disk Bushing
- 04 Shrink Disk
- 05 Shrink Disk Cover
- 06 Bolt (DIN 912)

**Schrumpfscheibe (KS)
Schutzhülle (KK)**

- 01 PKD Bausatz
- 02 Schrumpfscheibe Hohlwelle
- 03 Schrumpfscheibenbuchse
- 04 Schrumpfscheibe
- 05 Schrumpfscheibendeckel
- 06 Verschrauben (DIN 912)

**Çektirme (Ç)
Koruma Kapağı (KK)**

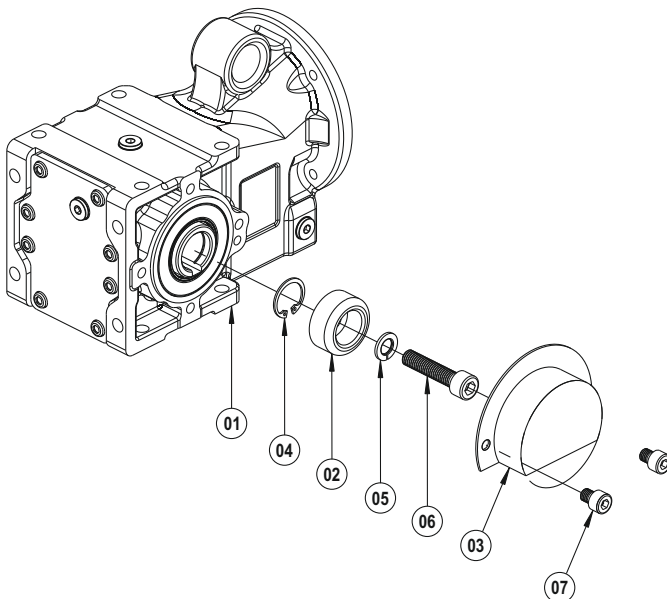
- 01 PKD Kit
- 02 Çektirme Rondelası
- 03 Şaft Koruma Kapağı
- 04 Segman (DIN 472)
- 05 Rondela (DIN 127)
- 06 Cıvata (DIN 912)
- 07 Cıvata (DIN 912)

**Puller (Ç)
Protection Cover (KK)**

- 01 PKD Kit
- 02 Puller Washer
- 03 Protection Cover
- 04 Circlip (DIN 472)
- 05 Washer (DIN 127)
- 06 Bolt (DIN 912)
- 07 Bolt (DIN 912)

**Befestigungsbausatz (Ç)
Schutzhülle (KK)**

- 01 PKD Bausatz
- 02 Abziehscheibe
- 03 Schutzhülle
- 04 Sicherungsring (DIN 472)
- 05 Distanzscheibe (DIN 127)
- 06 Verschrauben (DIN 912)
- 07 Verschrauben (DIN 912)

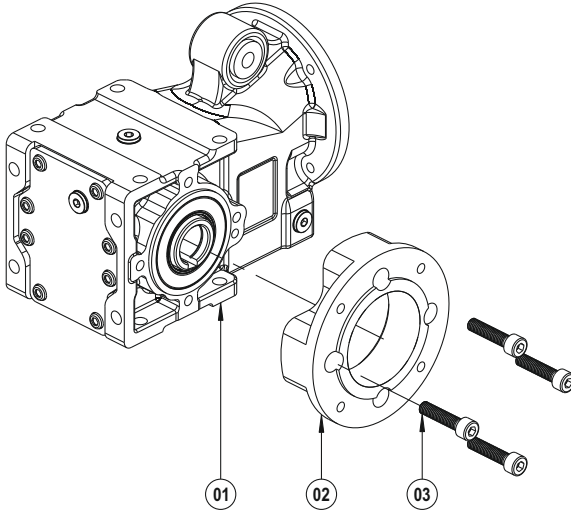


PKD A 0290**Aksesuarlar / Accessories / Zubehör**

Patlatma resmi gövde boyutu ve motor büyüklüğüne göre değişiklik gösterebilir, ayrıntılı patlatma resmi için firmamız ile iletişime geçiniz.

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**B5 Çıkış Flanşı**

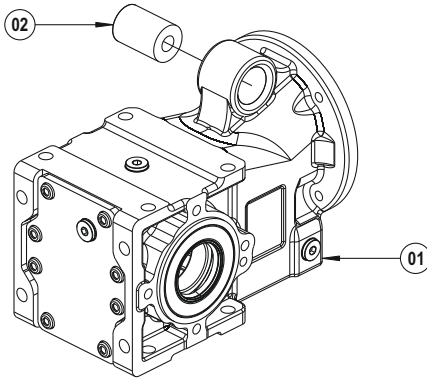
- 01 PKD Kit
- 02 B5 Çıkış Flanşı
- 03 Cıvata (DIN 912)

B5 Output Flange

- 01 PKD Kit
- 02 B5 Output Flange
- 03 Bolt (DIN 912)

B5 Abtriebsflansch

- 01 PKD Bausatz
- 02 B5 Abtriebsflansch
- 03 Verschrauben (DIN 912)

**Lastik Takoz (LT)**

- 01 PKD Kit
- 02 Lastik Takoz

Rubber Buffer (LT)

- 01 PKD Kit
- 02 Rubber Buffer

Gummipuffer (LT)

- 01 PKD Bausatz
- 02 Gummipuffer

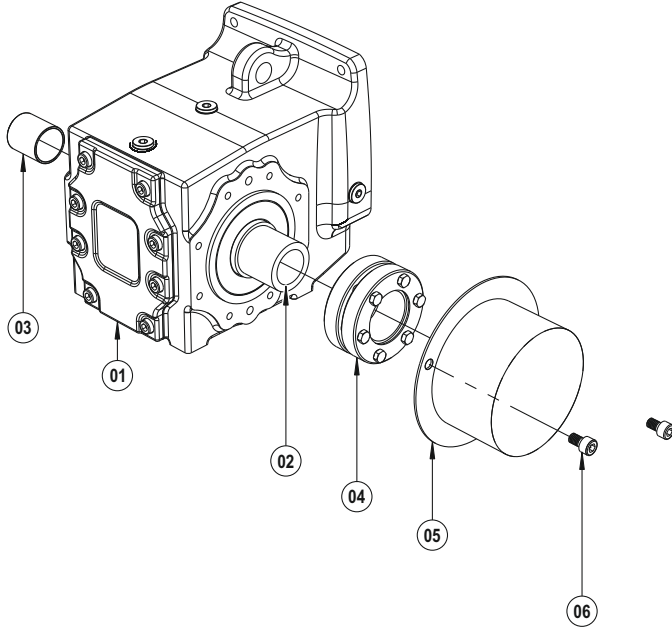
PKD B 0290 ... H 5290

Aksesuarlar / Accessories / Zubehör

Patlatma resmi gövde boyutu ve motor büyüklüğüne göre değişiklik gösterebilir, ayrıntılı patlatma resmi için firmamız ile iletişime geçiniz.

The exploded image may vary depending on the body and motor size, please contact us for the detailed exploded image.

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Konik Sıkırma (KS) Koruma Kapağı (KK)

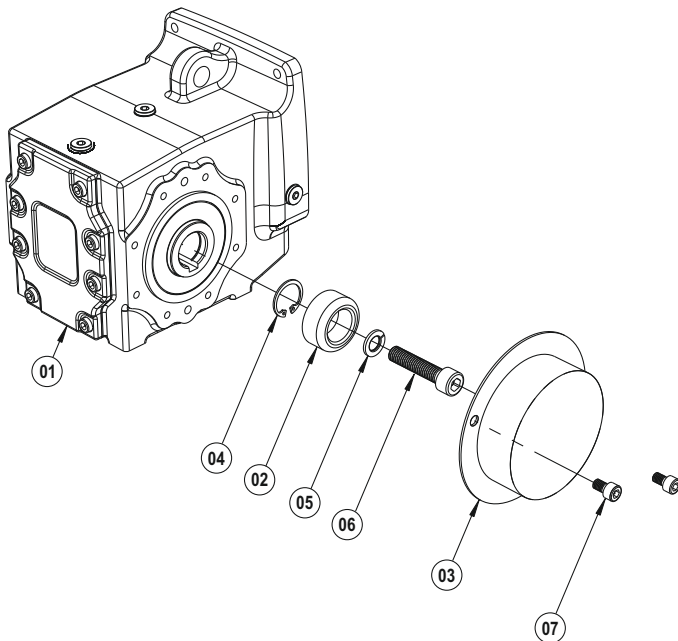
- 01 PKD Kit
- 02 Konik Sıkırma Şaftı
- 03 Konik Sıkırma Burcu
- 04 Konik Sıkırma
- 05 Konik Sıkırma Koruma Kapağı
- 06 Cıvata (DIN 912)

Shrink Disk (KS) Protection Cover (KK)

- 01 PKD Kit
- 02 Shrink Disk Hollow Shaft
- 03 Shrink Disk Bushing
- 04 Shrink Disk
- 05 Shrink Disk Cover
- 06 Bolt (DIN 912)

Schrumpfscheibe (KS) Schutzhülle (KK)

- 01 PKD Bausatz
- 02 Schrumpfscheibe Hohlwelle
- 03 Schrumpfscheibenbuchse
- 04 Schrumpfscheibe
- 05 Schrumpfscheibendeckel
- 06 Verschrauben (DIN 912)



Çektirme (Ç) Koruma Kapağı (KK)

- 01 PKD Kit
- 02 Çektirme Rondelası
- 03 Şaft Koruma Kapağı
- 04 Segman (DIN 472)
- 05 Rondela (DIN 127)
- 06 Cıvata (DIN 912)
- 07 Cıvata (DIN 912)

Puller (Ç) Protection Cover (KK)

- 01 PKD Kit
- 02 Puller Washer
- 03 Protection Cover
- 04 Circlip (DIN 472)
- 05 Washer (DIN 127)
- 06 Bolt (DIN 912)
- 07 Bolt (DIN 912)

Befestigungsbausatz (Ç) Schutzhülle (KK)

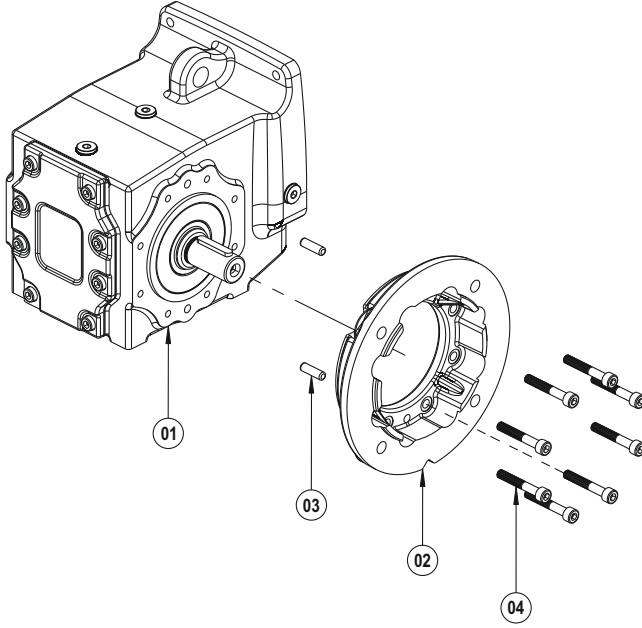
- 01 PKD Bausatz
- 02 Abziehscheibe
- 03 Schutzhülle
- 04 Sicherungsring (DIN 472)
- 05 Distanzscheibe (DIN 127)
- 06 Verschrauben (DIN 912)
- 07 Verschrauben (DIN 912)

PKD B 0290 ... H 5290
Aksesuarlar / Accessories / Zubehör

Patlatma resmi gövde boyutu ve motor büyüklüğüne göre değişiklik gösterebilir, ayrıntılı patlatma resmi için firmamız ile iletişime geçiniz.

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B5 Çıkış Flanşı

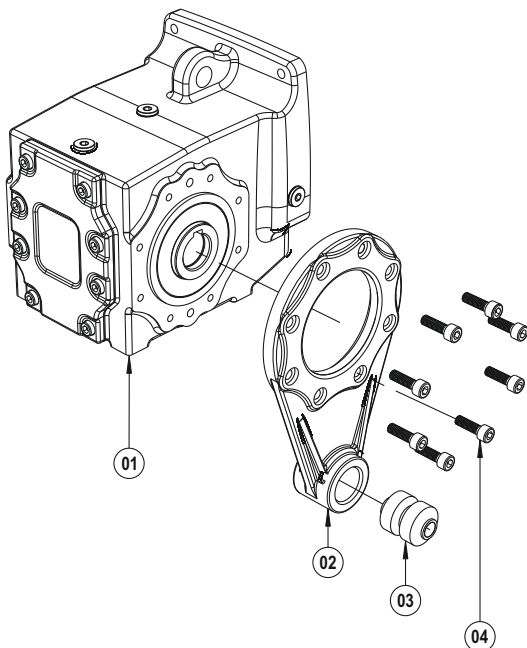
- 01 PKD Kit
- 02 B5 Çıkış Flanşı
- 03 Pim
- 04 Cıvata (DIN 912)

B5 Output Flange

- 01 PKD Kit
- 02 B5 Output Flange
- 03 Pin
- 04 Bolt (DIN 912)

B5 Abtriebsflansch

- 01 PKD Bausatz
- 02 B5 Abtriebsflansch
- 03 Bolzen
- 04 Verschrauben (DIN 912)



Tork Kolu (TK)

- 01 PKD Kit
- 02 Tork Kolu
- 03 Lastik Takoz
- 04 Cıvata (DIN 912)

Torque Arm (TK)

- 01 PKD Kit
- 02 Torque Arm
- 03 Rubber Buffer
- 04 Bolt (DIN 912)

Drehmomentstütze (TK)

- 01 PKD Bausatz
- 02 Drehmomentstütze
- 03 Gummipuffer
- 04 Verschrauben (DIN 912)

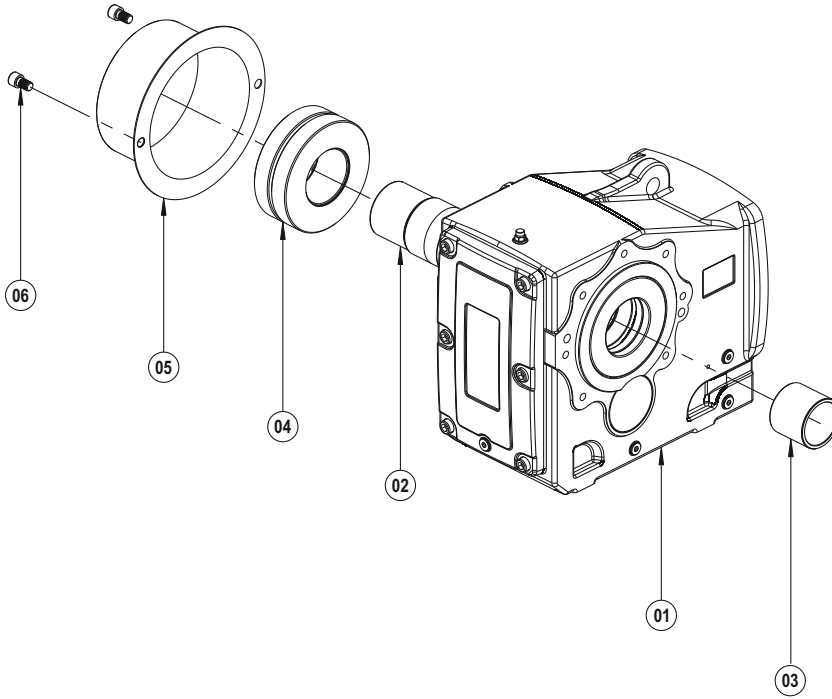
PKD DG 1390 ... G 9390

Aksesuarlar / Accessories / Zubehör

Patlatma resmi gövde boyutu ve motor büyüklüğüne göre değişiklik gösterebilir, ayrıntılı patlatma resmi için firmamız ile iletişime geçiniz.

The exploded image may vary depending on the body and motor size, please contact us for the detailed exploded image.

Die Explosionszeichnung kann je nach Gehäusegröße und Motorgröße variieren. Für die detaillierte Explosionszeichnung wenden Sie sich bitte an unser Unternehmen.



Konik Sıkırma (KS) Koruma Kapağı (KK)

- 01 PKD Kit
- 02 Konik Sıkırma Şaftı
- 03 Konik Sıkırma Burcu
- 04 Konik Sıkırma
- 05 Konik Sıkırma Koruma Kapağı
- 06 Cıvata (DIN 912)

Shrink Disk (KS) Protection Cover (KK)

- 01 PKD Kit
- 02 Shrink Disk Hollow Shaft
- 03 Shrink Disk Bushing
- 04 Shrink Disk
- 05 Shrink Disk Cover
- 06 Bolt (DIN 912)

Schrumpfscheibe (KS) Schutzhülle (KK)

- 01 PKD Bausatz
- 02 Schrumpfscheibe Hohlwelle
- 03 Schrumpfscheibenbuchse
- 04 Schrumpfscheibe
- 05 Schrumpfscheibedeckel
- 06 Verschrauben (DIN 912)

Çektirme (Ç) Koruma Kapağı (KK)

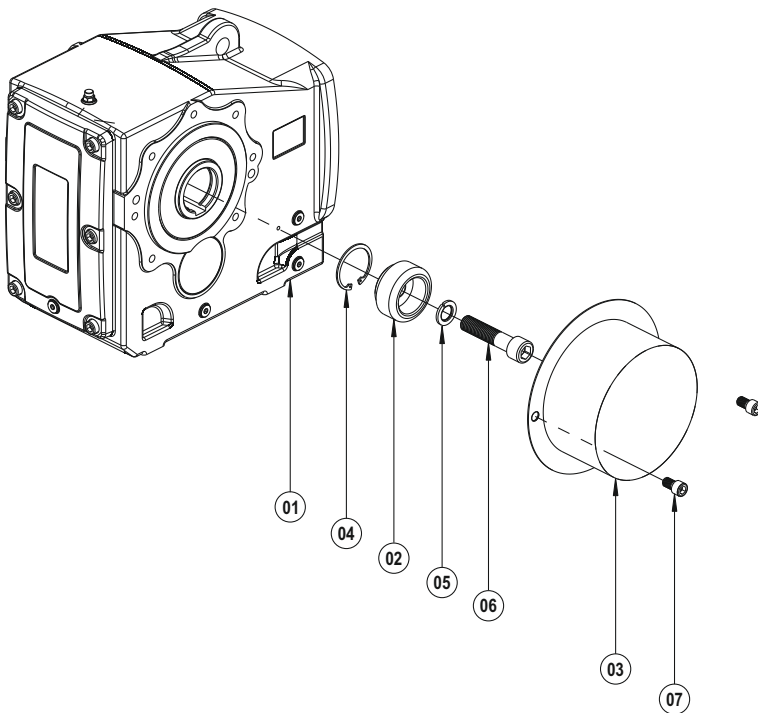
- 01 PKD Kit
- 02 Çektirme Rondelası
- 03 Şaft Koruma Kapağı
- 04 Segman (DIN 472)
- 05 Rondela (DIN 127)
- 06 Cıvata (DIN 912)
- 07 Cıvata (DIN 912)

Puller (Ç) Protection Cover (KK)

- 01 PKD Kit
- 02 Puller Washer
- 03 Protection Cover
- 04 Circlip (DIN 472)
- 05 Washer (DIN 127)
- 06 Bolt (DIN 912)
- 07 Bolt (DIN 912)

Befestigungsbausatz (Ç) Schutzhülle (KK)

- 01 PKD Bausatz
- 02 Abziehscheibe
- 03 Schutzhülle
- 04 Sicherungsring (DIN 472)
- 05 Distanzscheibe (DIN 127)
- 06 Verschrauben (DIN 912)
- 07 Verschrauben (DIN 912)

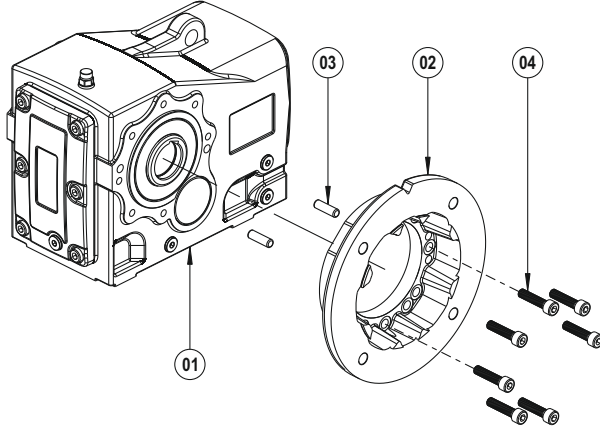


PKD DG 1390 ... G 9390
Aksesuarlar / Accessories / Zubehör

Patlatma resmi gövde boyutu ve motor büyüklüğüne göre değişiklik gösterebilir, ayrıntılı patlatma resmi için firmamız ile iletişime geçiniz.

The exploded image may vary depending on the body and motor size, please contact us for the detailed exploded image.

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B5 Çıkış Flanşı

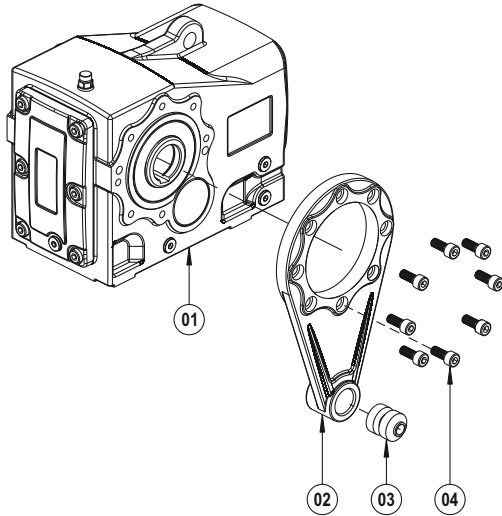
- 01 PKD Kit
- 02 B5 Çıkış Flanşı
- 03 Pim
- 04 Cıvata (DIN 912)

B5 Output Flange

- PKD Kit
- B5 Output Flange
- Pin
- Bolt (DIN 912)

B5 Abtriebsflansch

- PKD Bausatz
- B5 Abtriebsflansch
- Bolzen
- Verschrauben (DIN 912)



Tork Kolu (TK)

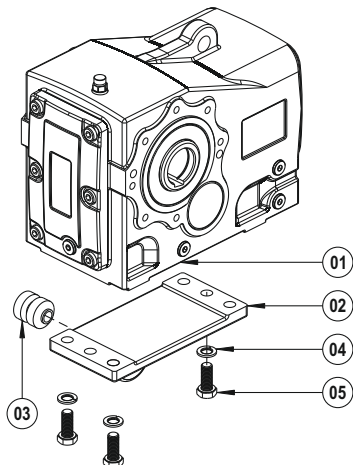
- 01 PKD Kit
- 02 Tork Kolu
- 03 Lastik Takoz
- 04 Cıvata (DIN 912)

Torque Arm (TK)

- PKD Kit
- Torque Arm
- Rubber Buffer
- Bolt (DIN 912)

Drehmomentstütze (TK)

- PKD Bausatz
- Drehmomentstütze
- Gummipuffer
- Verschrauben (DIN 912)



Tork Kolu Platformu (TKP)

- 01 PKD Kit
- 02 Tork Kolu Platformu
- 03 Lastik Takoz
- 04 Rondela (DIN 127)
- 05 Cıvata (DIN 933)

Torque Arm Platform (TKP)

- PKD Kit
- Torque Arm Platform
- Rubber Buffer
- Washer (DIN 127)
- Bolt (DIN 933)

Drehmomentkonsole (TKP)

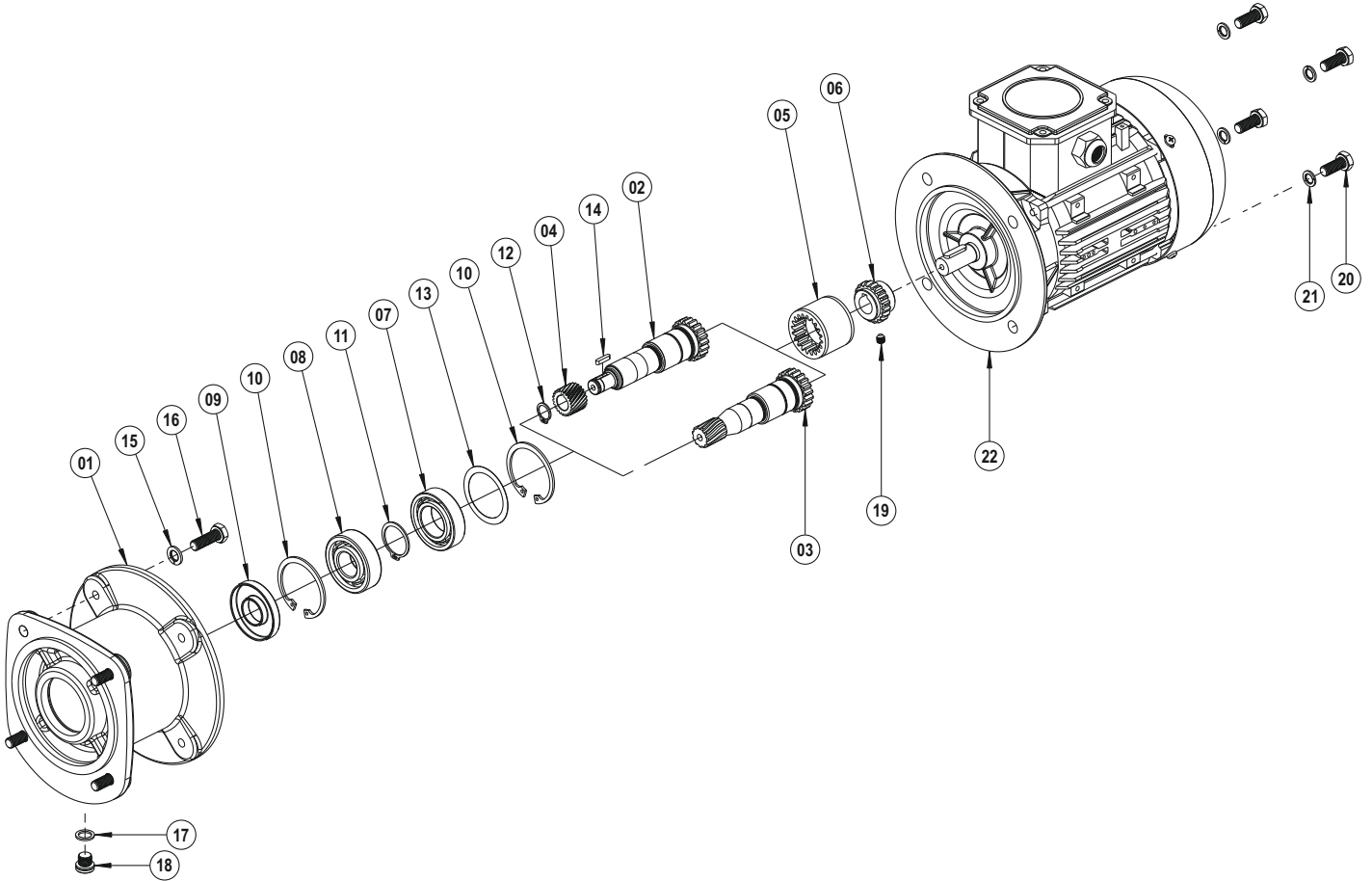
- PKD Bausatz
- Drehmomentkonsole
- Gummipuffer
- Distanzscheibe (DIN 127)
- Verschrauben (DIN 933)

IEC 63 ... 112

Patlatma resmi gövde boyutu ve motor büyüklüğüne göre değişiklik gösterebilir, ayrıntılı patlatma resmi için firmamız ile iletişime geçiniz.

The exploded image may vary depending on the body and motor size, please contact us for the detailed exploded image.

Die Explosionszeichnung kann je nach Gehäusegröße und Motorgröße variieren. Für die detaillierte Explosionszeichnung wenden Sie sich bitte an unser Unternehmen.



- 01 Gövde
- 02 IEC Mili (Kamalı)
- 03 IEC Mili (Dişlili)
- 04 Z1 Dişlisi (Kamalı)
- 05 Plastik Kaplin
- 06 Metal Kaplin
- 07 Rulman
- 08 Rulman
- 09 Yağ Keçesi
- 10 Segman (DIN 472)
- 11 Segman (DIN 471)
- 12 Segman (DIN 471)
- 13 Layner (DIN 988)
- 14 Kama (DIN 6885)
- 15 Rondela (DIN 127)
- 16 Cıvata (DIN 933)
- 17 Rondela (DIN 7603)
- 18 Yağ Tapası (DIN 908)
- 19 Cıvata (DIN 916)
- 20 Cıvata (DIN 933)
- 21 Rondela (DIN 127)
- 22 Motor

- 01 Gear Case
- 02 IEC Shaft (With Key)
- 03 IEC Shaft (With Gear)
- 04 Driving Pinion (With Key)
- 05 Plastic Coupling
- 06 Metal Coupling
- 07 Bearing
- 08 Bearing
- 09 Oil Seal
- 10 Circlip (DIN 472)
- 11 Circlip (DIN 471)
- 12 Circlip (DIN 471)
- 13 Shim (DIN 988)
- 14 Key (DIN 6885)
- 15 Washer (DIN 127)
- 16 Bolt (DIN 933)
- 17 Washer (DIN 7603)
- 18 Oil Plug (DIN 908)
- 19 Bolt (DIN 916)
- 20 Bolt (DIN 933)
- 21 Washer (DIN 127)
- 22 Motor

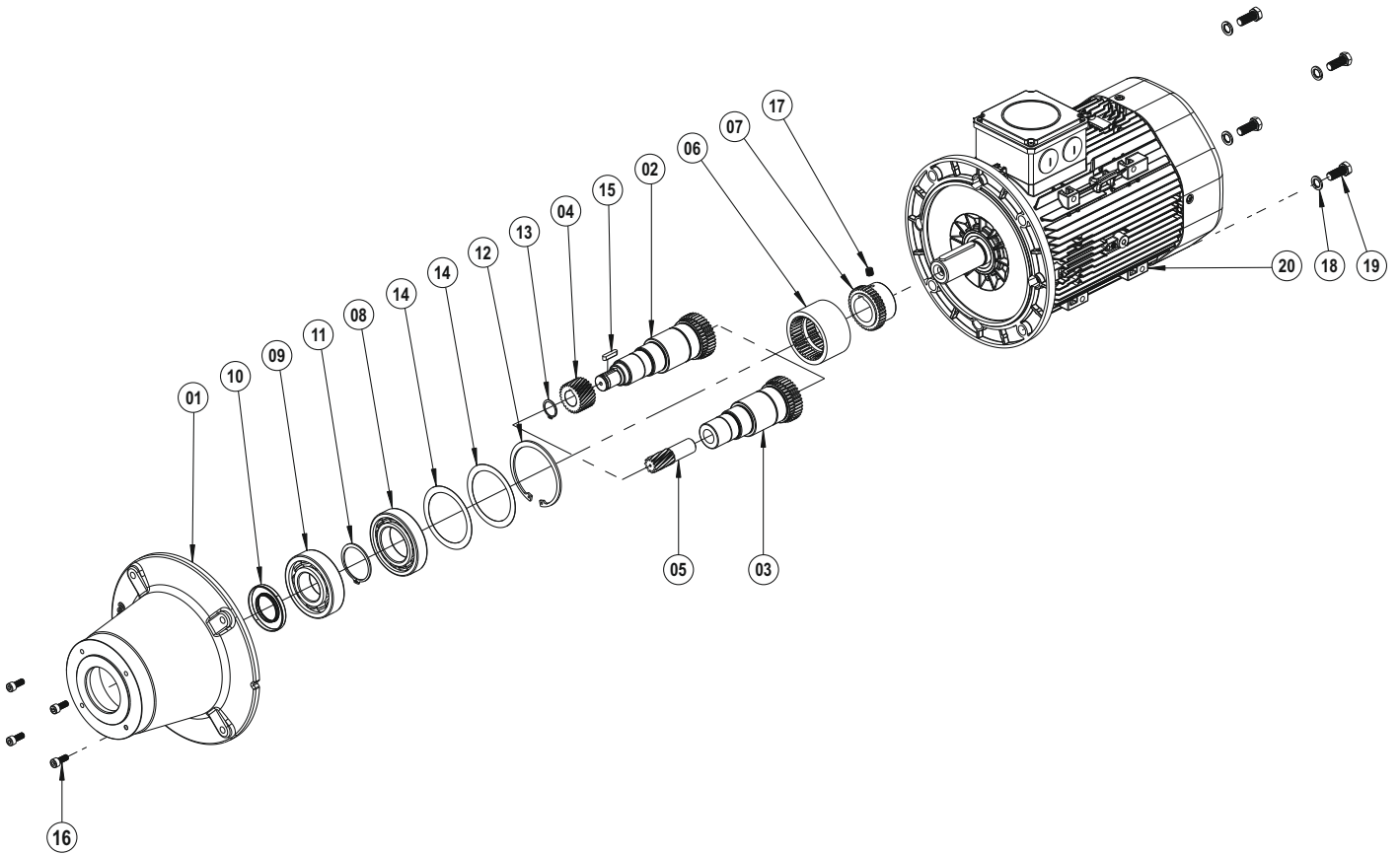
- 01 Gehäuse
- 02 IEC Welle (mit Passfeder)
- 03 IEC Welle (mit Zahnrad)
- 04 Antriebsritzel (Mit Passfeder)
- 05 Kupplung (Plastik)
- 06 Kupplung (Metall)
- 07 Kugellager
- 08 Kugellager
- 09 Öldichtung
- 10 Sicherungsring (DIN 472)
- 11 Sicherungsring (DIN 471)
- 12 Sicherungsring (DIN 471)
- 13 Passscheibe (DIN 988)
- 14 Passfeder (DIN 6885)
- 15 Distanzscheibe (DIN 127)
- 16 Verschrauben (DIN 933)
- 17 Distanzscheibe (DIN 7603)
- 18 Ölstöpsel (DIN 908)
- 19 Verschrauben (DIN 916)
- 20 Verschrauben (DIN 933)
- 21 Distanzscheibe (DIN 127)
- 22 Motor

IEC 63 ... 132

Patlatma resmi gövde boyutu ve motor büyüklüğüne göre değişiklik gösterebilir, ayrıntılı patlatma resmi için firmamız ile iletişime geçiniz.

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- 01 Gövde
- 02 IEC Mili (Kamalı)
- 03 IEC Mili
- 04 Z1 Dişlisi (Kamalı)
- 05 Z1 Dişlisi
- 06 Plastik Kaplin
- 07 Metal Kaplin
- 08 Rulman
- 09 Rulman
- 10 Yağ Keçesi
- 11 Segman (DIN 471)
- 12 Segman (DIN 472)
- 13 Segman (DIN 471)
- 14 Layner (DIN 988)
- 15 Kama (DIN 9885)
- 16 Cıvata (DIN 912)
- 17 Cıvata (DIN 916)
- 18 Rondela (DIN 127)
- 19 Cıvata (DIN 933)
- 20 Motor

- 01 Gear Case
- 02 IEC Shaft (With Key)
- 03 IEC Shaft
- 04 Driving Pinion (With Key)
- 05 Driving Pinion
- 06 Plastic Coupling
- 07 Metal Coupling
- 08 Bearing
- 09 Bearing
- 10 Oil Seal
- 11 Circlip (DIN 471)
- 12 Circlip (DIN 472)
- 13 Circlip (DIN 471)
- 14 Shim (DIN 988)
- 15 Key (DIN 9885)
- 16 Bolt (DIN 912)
- 17 Bolt (DIN 916)
- 18 Washer (DIN 127)
- 19 Bolt (DIN 933)
- 20 Motor

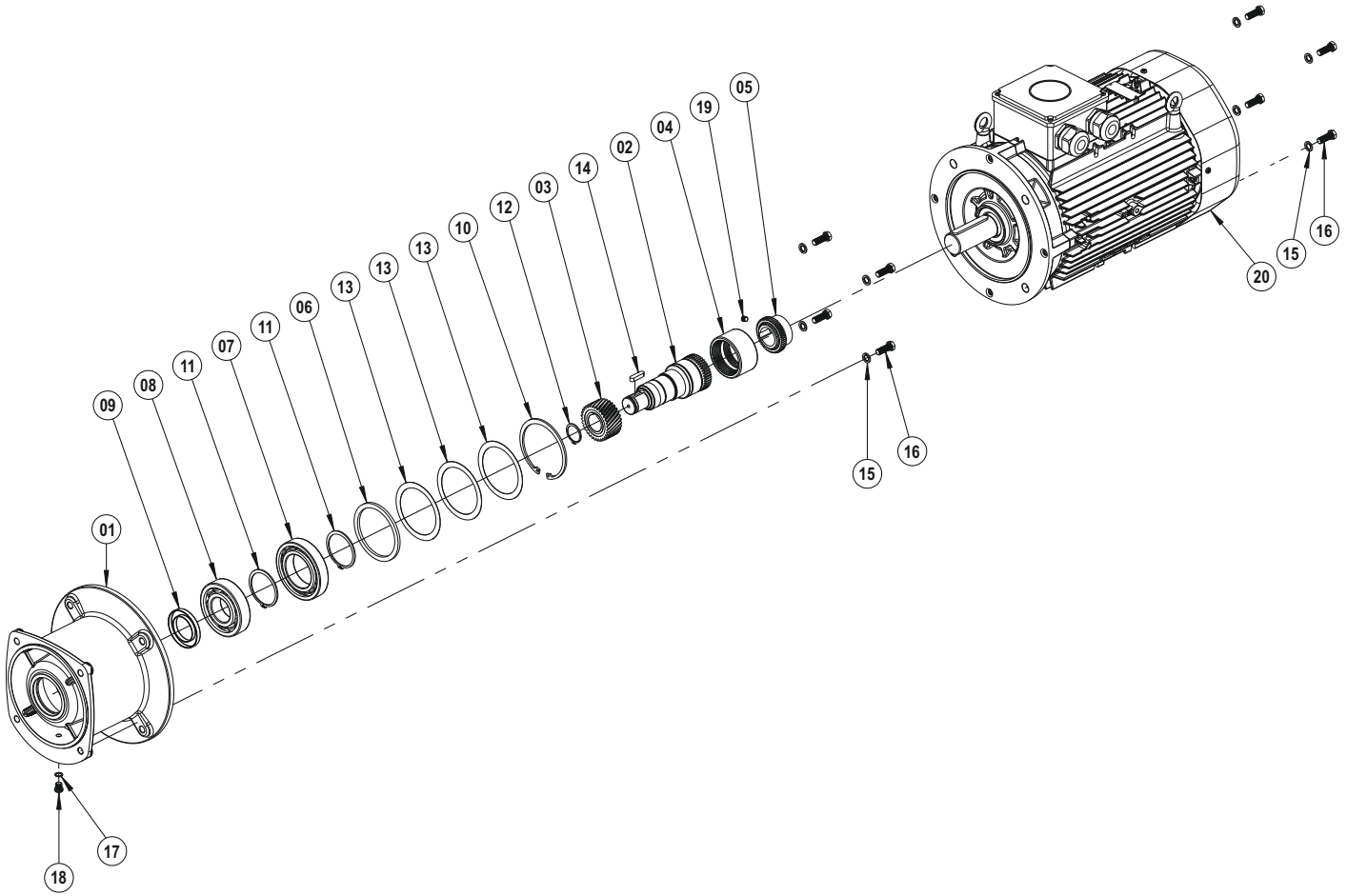
- 01 Gehäuse
- 02 IEC Welle (mit Passfeder)
- 03 IEC Welle
- 04 Antriebsritzel (mit Passfeder)
- 05 Antriebsritzel
- 06 Kupplung (Plastik)
- 07 Kupplung (Metall)
- 08 Kugellager
- 09 Kugellager
- 10 Öldichtung
- 11 Sicherungsring (DIN 471)
- 12 Sicherungsring (DIN 472)
- 13 Sicherungsring (DIN 471)
- 14 Passscheibe (DIN 988)
- 15 Passfeder (DIN 9885)
- 16 Verschrauben (DIN 912)
- 17 Verschrauben (DIN 916)
- 18 Distanzscheibe (DIN 127)
- 19 Verschrauben (DIN 933)
- 20 Motor

IEC 63 ... 180

Patlatma resmi gövde boyutu ve motor büyüklüğüne göre değişiklik gösterebilir, ayrıntılı patlatma resmi için firmamız ile iletişime geçiniz.

The exploded image may vary depending on the body and motor size, please contact us for the detailed exploded image.

Die Explosionszeichnung kann je nach Gehäusegröße und Motorgröße variieren. Für die detaillierte Explosionszeichnung wenden Sie sich bitte an unser Unternehmen.



- 01 Gövde
- 02 IEC Mili (Kamalı)
- 03 Z1 Dişlisi (Kamalı)
- 04 Plastik Kaplin
- 05 Metal Kaplin
- 06 Rondela
- 07 Rulman
- 08 Rulman
- 09 Yağ Keçesi
- 10 Segman (DIN 472)
- 11 Segman (DIN 471)
- 12 Segman (DIN 471)
- 13 Layner (DIN 988)
- 14 Kama (DIN 9885)
- 15 Rondela (DIN 127)
- 16 Cıvata (DIN 933)
- 17 Rondela (DIN 7603)
- 18 Yağ Tapası (DIN 908)
- 19 Cıvata (DIN 916)
- 20 Motor

- 01 Gear Case
- 02 IEC Shaft (With Key)
- 03 Driving Pinion (With Key)
- 04 Plastic Coupling
- 05 Metal Coupling
- 06 Washer
- 07 Bearing
- 08 Bearing
- 09 Oil Seal
- 10 Circlip (DIN 472)
- 11 Circlip (DIN 471)
- 12 Circlip (DIN 471)
- 13 Shim (DIN 988)
- 14 Key (DIN 9885)
- 15 Washer (DIN 127)
- 16 Bolt (DIN 933)
- 17 Washer (DIN 7603)
- 18 Oil Plug (DIN 908)
- 19 Bolt (DIN 916)
- 20 Motor

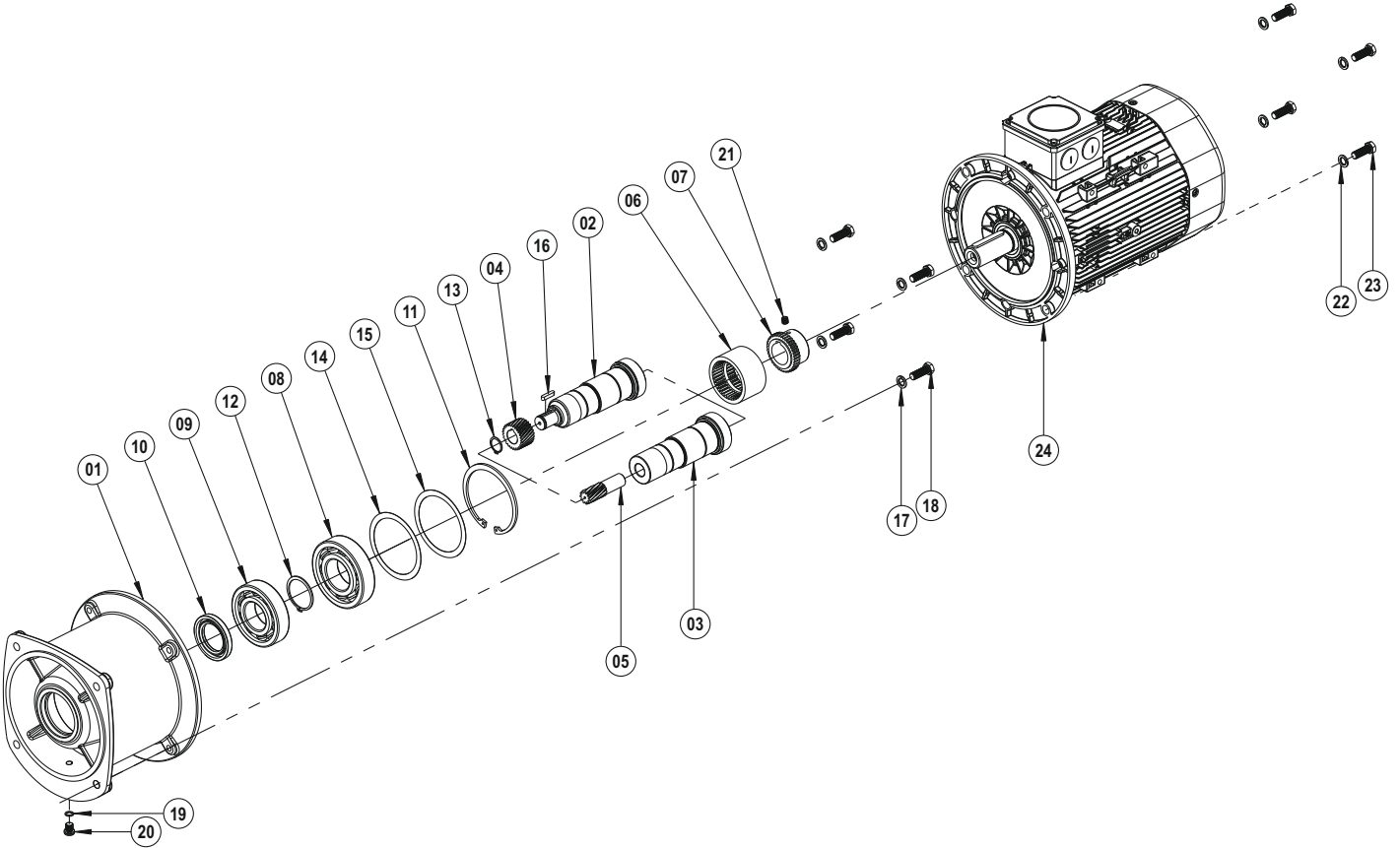
- 01 Gehäuse
- 02 IEC Welle (mit Passfeder)
- 03 Antriebsritzel (mit Passfeder)
- 04 Kupplung (Plastik)
- 05 Kupplung (Metall)
- 06 Distanzscheibe
- 07 Kugellager
- 08 Kugellager
- 09 Öldichtung
- 10 Sicherungsring (DIN 472)
- 11 Sicherungsring (DIN 471)
- 12 Sicherungsring (DIN 471)
- 13 Passscheibe (DIN 988)
- 14 Passfeder (DIN 9885)
- 15 Distanzscheibe (DIN 127)
- 16 Verschrauben (DIN 933)
- 17 Distanzscheibe (DIN 7603)
- 18 Ölstöpsel (DIN 908)
- 19 Verschrauben (DIN 912)
- 20 Motor

IEC 132 ... 180

Patlatma resmi gövde boyutu ve motor büyüklüğüne göre değişiklik gösterebilir, ayrıntılı patlatma resmi için firmamız ile iletişime geçiniz.

The exploded image may vary depending on the body and motor size, please contact us for the detailed exploded image.

Die Explosionszeichnung kann je nach Gehäusegröße und Motorgröße variieren. Für die detaillierte Explosionszeichnung wenden Sie sich bitte an unser Unternehmen.



- 01 Gövde
- 02 IEC Mili (Kamalı)
- 03 IEC Mili
- 04 Z1 Dişlisi (Kamalı)
- 05 Z1 Dişlisi
- 06 Plastik Kaplin
- 07 Metal Kaplin
- 08 Rulman
- 09 Rulman
- 10 Yağ Keçesi
- 11 Segman (DIN 472)
- 12 Segman (DIN 471)
- 13 Segman (DIN 471)
- 14 Layner (DIN 988)
- 15 Layner (DIN 988)
- 16 Kama (DIN 6885)
- 17 Rondela (DIN 127)
- 18 Cıvata (DIN 933)
- 19 Rondela (DIN 7603)
- 20 Yağ Tapası (DIN 908)
- 21 Cıvata (DIN 916)
- 22 Rondela (DIN 127)
- 23 Cıvata (DIN 933)
- 24 Motor

- 01 Gear Case
- 02 IEC Shaft (With Key)
- 03 IEC Shaft
- 04 Driving Pinion (With Key)
- 05 Driving Pinion
- 06 Plastic Coupling
- 07 Metal Coupling
- 08 Bearing
- 09 Bearing
- 10 Oil Seal
- 11 Circlip (DIN 472)
- 12 Circlip (DIN 471)
- 13 Circlip (DIN 471)
- 14 Shim (DIN 988)
- 15 Shim (DIN 988)
- 16 Key (DIN 6885)
- 17 Washer (DIN 127)
- 18 Bolt (DIN 933)
- 19 Washer (DIN 7603)
- 20 Oil Plug (DIN 908)
- 21 Bolt (DIN 916)
- 22 Washer (DIN 127)
- 23 Bolt (DIN 933)
- 24 Motor

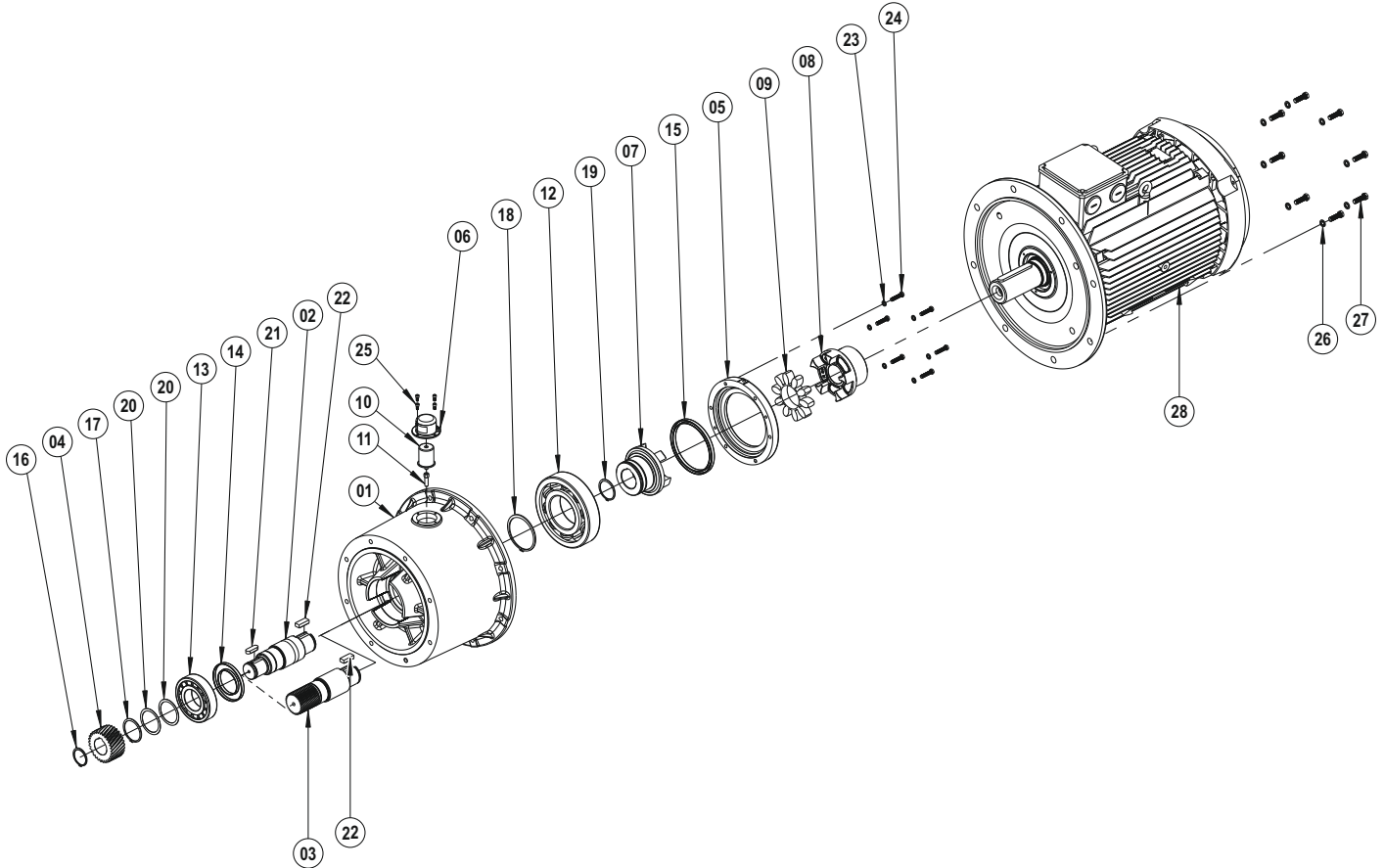
- 01 Gehäuse
- 02 IEC Welle (mit Passfeder)
- 03 IEC Welle
- 04 Antriebsritzel (Mit Passfeder)
- 05 Antriebsritzel
- 06 Kupplung (Plastik)
- 07 Kupplung (Metall)
- 08 Kugellager
- 09 Kugellager
- 10 Öldichtung
- 11 Sicherungsring (DIN 472)
- 12 Sicherungsring (DIN 471)
- 13 Sicherungsring (DIN 471)
- 14 Passscheibe (DIN 988)
- 15 Passscheibe (DIN 988)
- 16 Passfeder (DIN 6885)
- 17 Distanzscheibe (DIN 127)
- 18 Verschrauben (DIN 933)
- 19 Distanzscheibe (DIN 7603)
- 20 Ölstopfel (DIN 908)
- 21 Verschrauben (DIN 933)
- 22 Distanzscheibe (DIN 127)
- 23 Verschrauben (DIN 933)
- 24 Motor

IEC 160 ... 315

Patlatma resmi gövde boyutu ve motor büyüklüğüne göre değişiklik gösterebilir, ayrıntılı patlatma resmi için firmamız ile iletişime geçiniz.

The exploded image may vary depending on the body and motor size, please contact us for the detailed exploded image.

Die Explosionszeichnung kann je nach Gehäusegröße und Motorgröße variieren. Für die detaillierte Explosionszeichnung wenden Sie sich bitte an unser Unternehmen.



- 01 Gövde
- 02 IEC Mili (Kamalı)
- 03 IEC Mili (Dişli)
- 04 Z1 Dişlisi (Kamalı)
- 05 Rulman Flaşı
- 06 Yağlama Kapağı
- 07 Kaplin (Redüktör Tarafı)
- 08 Kaplin (Motor Tarafı)
- 09 Spider
- 10 Otomatik Yağlayıcı Tüpü
- 11 Otomatik Yağlayıcı Adaptörü
- 12 Rulman
- 13 Rulman
- 14 Yağ Keçesi
- 15 Yağ Keçesi
- 16 Segman (DIN 471)
- 17 Segman (DIN 471)
- 18 Segman (DIN 471)
- 19 Segman (DIN 471)
- 20 Layner (DIN 988)
- 21 Kama (DIN 6885)
- 22 Kama (DIN 6885)
- 23 Rondela (DIN 127)
- 24 Cıvata (DIN 933)
- 25 Cıvata (DIN 912)
- 26 Rondela (DIN 127)
- 27 Cıvata (DIN 933)
- 28 Motor

- 01 Gear Case
- 02 IEC Shaft (With Key)
- 03 IEC Shaft (With Gear)
- 04 Driving Pinion (With Key)
- 05 Bearing Flange
- 06 Lubrication Cover
- 07 Coupling (Gearbox Side)
- 08 Coupling (Motor Side)
- 09 Spider
- 10 Automatic Lubricator
- 11 Automatic Lubricator Adapter
- 12 Bearing
- 13 Bearing
- 14 Oil Seal
- 15 Oil Seal
- 16 Circlip (DIN 471)
- 17 Circlip (DIN 471)
- 18 Circlip (DIN 471)
- 19 Circlip (DIN 471)
- 20 Shim (DIN 988)
- 21 Key (DIN 6885)
- 22 Key (DIN 6885)
- 23 Washer (DIN 127)
- 24 Bolt (DIN 933)
- 25 Bolt (DIN 912)
- 26 Washer (DIN 127)
- 27 Bolt (DIN 933)
- 28 Motor

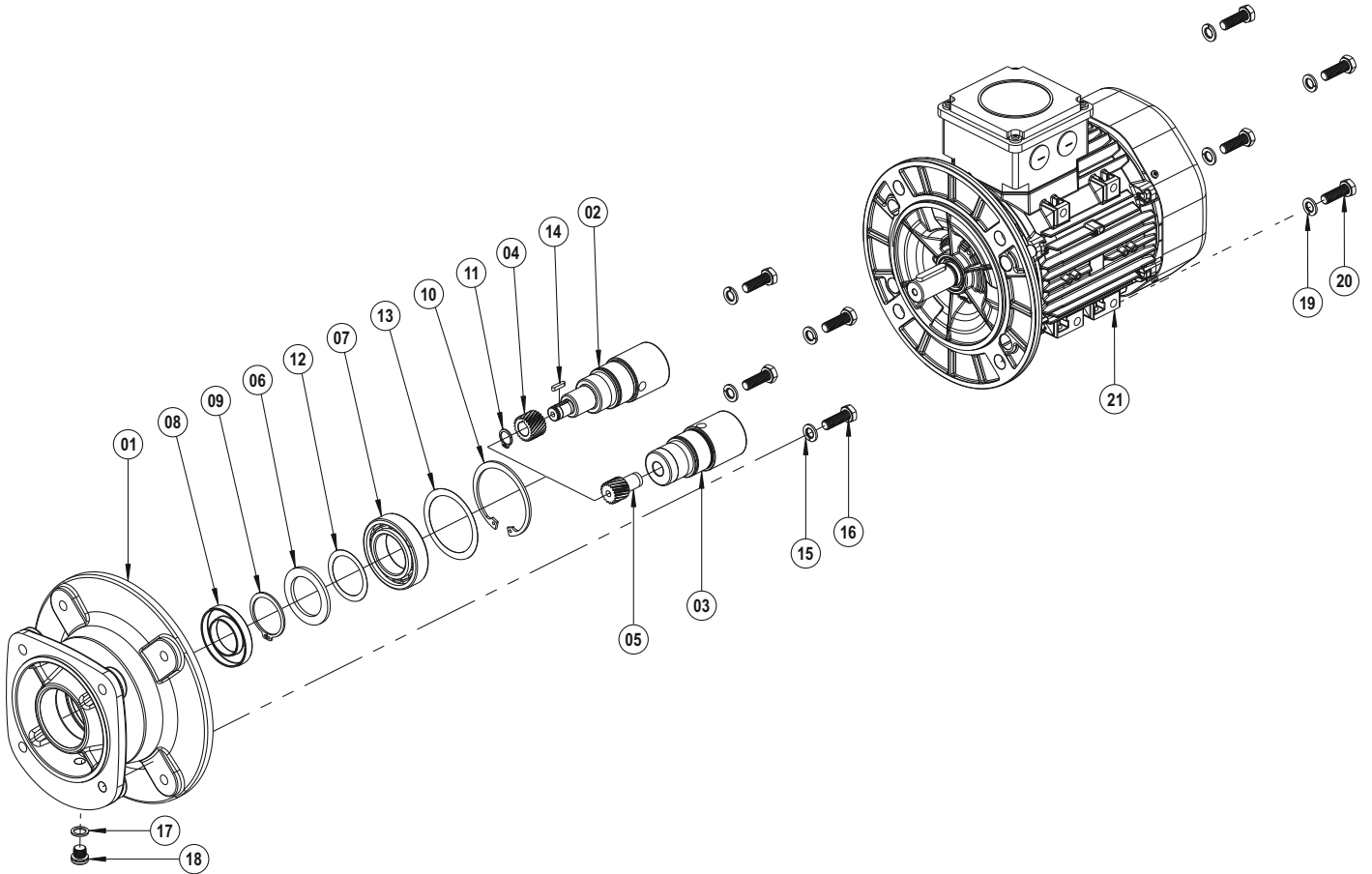
- 01 Gehäuse
- 02 IEC Welle (mit Passfeder)
- 03 IEC Welle (mit Zahnrad)
- 04 Antriebsritzel (Mit Passfeder)
- 05 Kugellagerflansch
- 06 Schmierdeckel
- 07 Kupplung (Getriebeseite)
- 08 Kupplung (Motorseite)
- 09 Spider
- 10 Automatischer Schmierstoffgeber
- 11 Automatischer Schmierstoffgeber Verlängerung
- 12 Kugellager
- 13 Kugellager
- 14 Öldichtung
- 15 Öldichtung
- 16 Sicherungsring (DIN 471)
- 17 Sicherungsring (DIN 471)
- 18 Sicherungsring (DIN 471)
- 19 Sicherungsring (DIN 471)
- 20 Passscheibe (DIN 988)
- 21 Passfeder (DIN 6885)
- 22 Passfeder (DIN 6885)
- 23 Distanzscheibe (DIN 127)
- 24 Verschrauben (DIN 933)
- 25 Verschrauben (DIN 912)
- 26 Distanzscheibe (DIN 127)
- 27 Verschrauben (DIN 912)
- 28 Motor

PAM B5 / 63 ... 315

Patlatma resmi gövde boyutu ve motor büyüklüğüne göre değişiklik gösterebilir, ayrıntılı patlatma resmi için firmamız ile iletişime geçiniz.

The exploded image may vary depending on the body and motor size, please contact us for the detailed exploded image.

Die Explosionszeichnung kann je nach Gehäusegröße und Motorgröße variieren. Für die detaillierte Explosionszeichnung wenden Sie sich bitte an unser Unternehmen.



- 01 Gövde
- 02 PAM Mili (Kamalı)
- 03 PAM Mili
- 04 Z1 Dişlisi (Kamalı)
- 05 Z1 Dişlisi
- 06 Rondela
- 07 Rulman
- 08 Yağ Keçesi
- 09 Segman (DIN 471)
- 10 Segman (DIN 472)
- 11 Segman (DIN 471)
- 12 Layner (DIN 988)
- 13 Layner (DIN 988)
- 14 Kama (DIN 6885)
- 15 Rondela (DIN 127)
- 16 Cıvata (DIN 933)
- 17 Rondela (DIN 7603)
- 18 Yağ Tıpası (DIN 908)
- 19 Rondela (DIN 127)
- 20 Cıvata (DIN 933)
- 21 Motor

- 01 Gear Case
- 02 PAM Shaft (With Key)
- 03 PAM Shaft
- 04 Driving Pinion (With Key)
- 05 Driving Pinion
- 06 Washer
- 07 Bearing
- 08 Oil Seal
- 09 Circlip (DIN 471)
- 10 Circlip (DIN 472)
- 11 Circlip (DIN 471)
- 12 Shim (DIN 988)
- 13 Shim (DIN 988)
- 14 Key (DIN 6885)
- 15 Washer (DIN 127)
- 16 Bolt (DIN 933)
- 17 Washer (DIN 7603)
- 18 Oil Plug (DIN 908)
- 19 Washer (DIN 127)
- 20 Bolt (DIN 933)
- 21 Motor

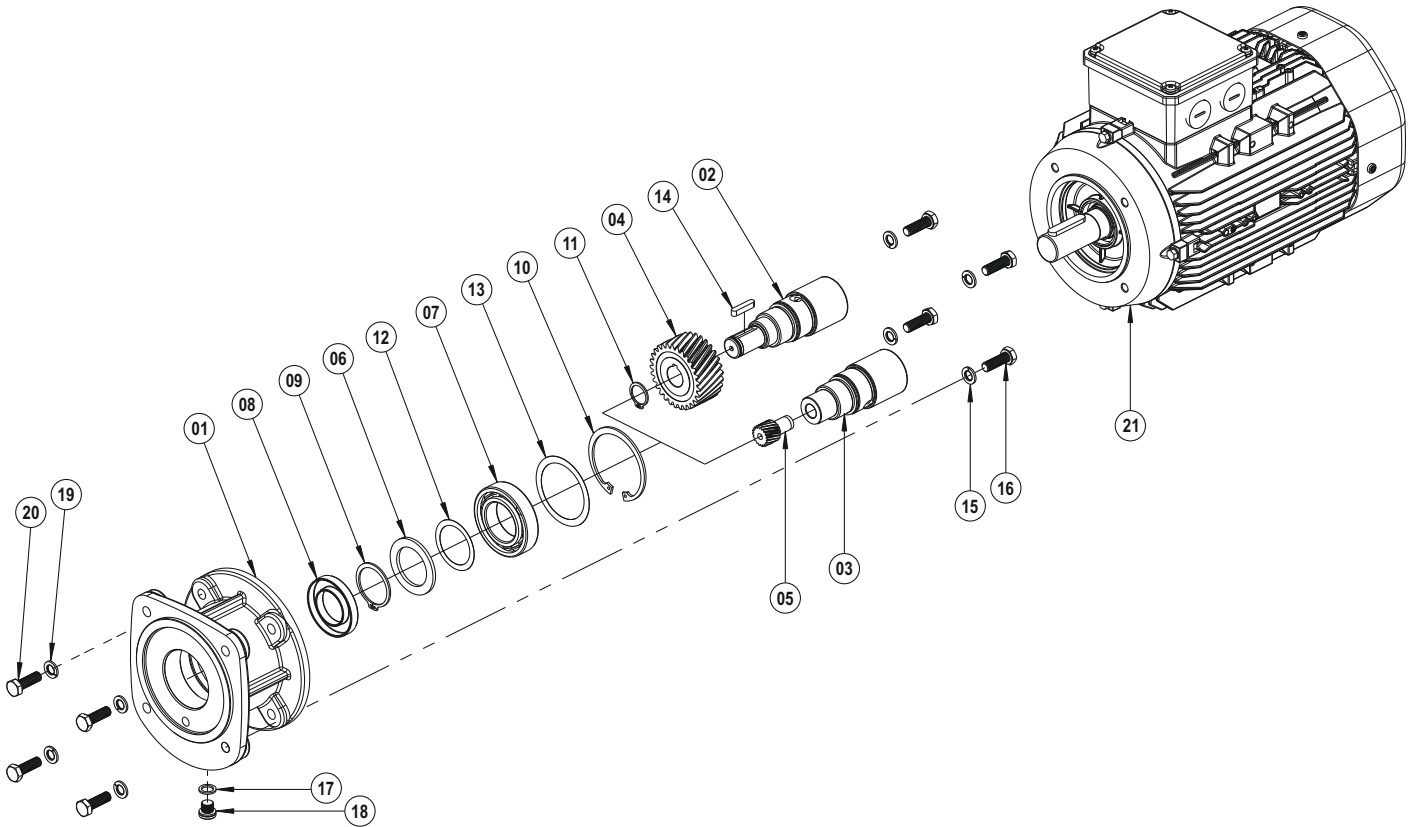
- 01 Gehäuse
- 02 PAM Welle (mit Passfeder)
- 03 PAM Welle
- 04 Antriebsritzel (Mit Passfeder)
- 05 Antriebsritzel
- 06 Distanzscheibe
- 07 Kugellager
- 08 Öldichtung
- 09 Sicherungsring (DIN 471)
- 10 Sicherungsring (DIN 472)
- 11 Sicherungsring (DIN 471)
- 12 Passscheibe (DIN 988)
- 13 Passscheibe (DIN 988)
- 14 Passfeder (DIN 6885)
- 15 Distanzscheibe (DIN 127)
- 16 Verschrauben (DIN 933)
- 17 Distanzscheibe (DIN 7603)
- 18 Ölstöpsel (DIN 908)
- 19 Distanzscheibe (DIN 127)
- 20 Verschrauben (DIN 933)
- 21 Motor

PAM B14 / 63 ... 132

Patlatma resmi gövde boyutu ve motor büyüklüğüne göre değişiklik gösterebilir, ayrıntılı patlatma resmi için firmamız ile iletişime geçiniz.

The exploded image may vary depending on the body and motor size, please contact us for the detailed exploded image.

Die Explosionszeichnung kann je nach Gehäusegröße und Motorgröße variieren. Für die detaillierte Explosionszeichnung wenden Sie sich bitte an unser Unternehmen.



- 01 Gövde
- 02 PAM Mili (Kamalı)
- 03 PAM Mili
- 04 Z1 Dişlisi (Kamalı)
- 05 Z1 Dişlisi
- 06 Rondela
- 07 Rulman
- 08 Yağ Keçesi
- 09 Segman (DIN 471)
- 10 Segman (DIN 472)
- 11 Segman (DIN 471)
- 12 Layner (DIN 988)
- 13 Layner (DIN 988)
- 14 Kama (DIN 6885)
- 15 Rondela (DIN 127)
- 16 Cıvata (DIN 933)
- 17 Rondela (DIN 7603)
- 18 Yağ Tıpası (DIN 908)
- 19 Rondela (DIN 127)
- 20 Cıvata (DIN 933)
- 21 Motor

- 01 Gear Case
- 02 PAM Shaft (With Key)
- 03 PAM Shaft
- 04 Driving Pinion (With Key)
- 05 Driving Pinion
- 06 Washer
- 07 Bearing
- 08 Oil Seal
- 09 Circlip (DIN 471)
- 10 Circlip (DIN 472)
- 11 Circlip (DIN 471)
- 12 Shim (DIN 988)
- 13 Shim (DIN 988)
- 14 Key (DIN 6885)
- 15 Washer (DIN 127)
- 16 Bolt (DIN 933)
- 17 Washer (DIN 7603)
- 18 Oil Plug (DIN 908)
- 19 Washer (DIN 127)
- 20 Bolt (DIN 933)
- 21 Motor

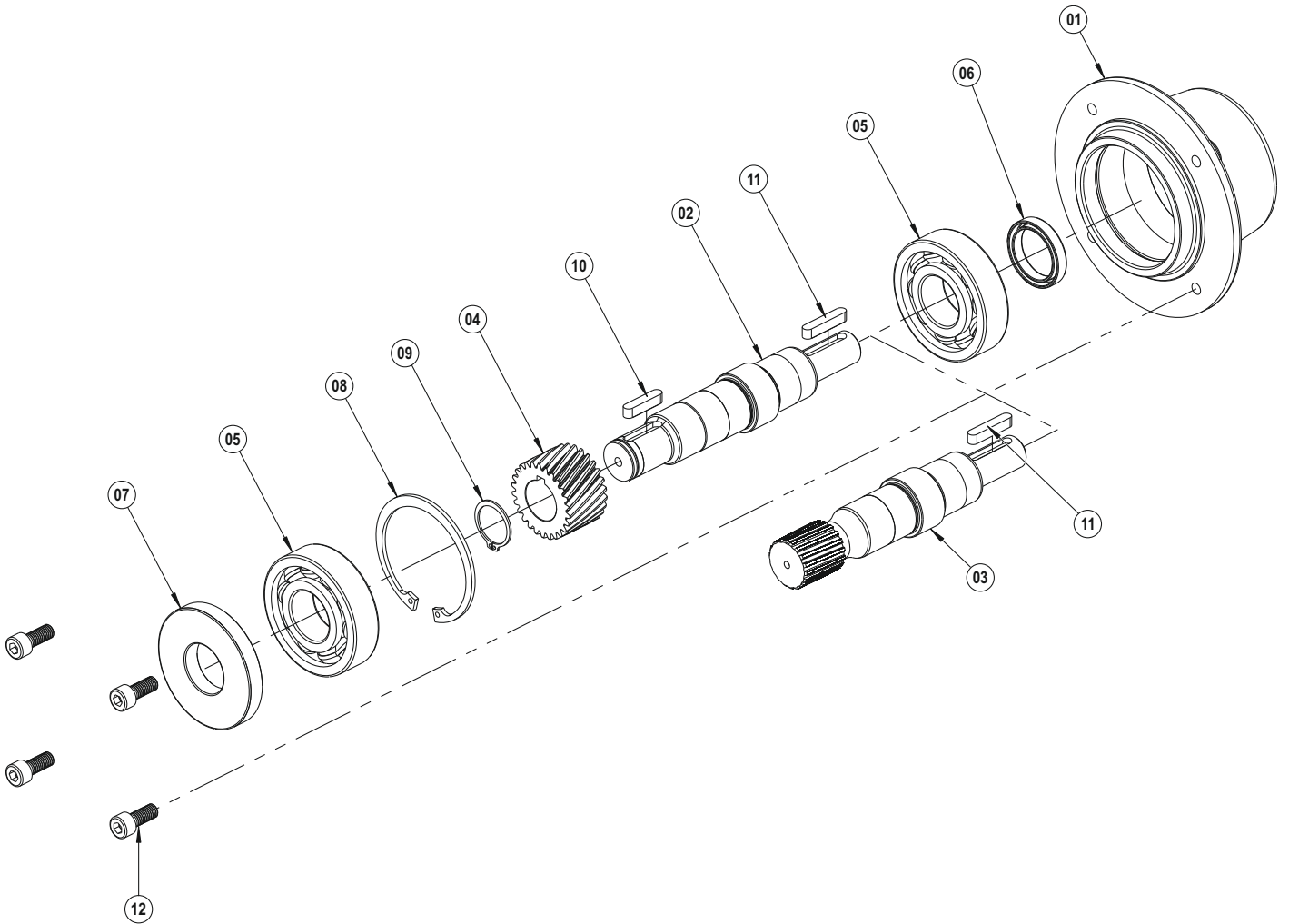
- 01 Gehäuse
- 02 PAM Welle (mit Passfeder)
- 03 PAM Welle
- 04 Antriebsritzel (Mit Passfeder)
- 05 Antriebsritzel
- 06 Distanzscheibe
- 07 Kugellager
- 08 Öldichtung
- 09 Sicherungsring (DIN 471)
- 10 Sicherungsring (DIN 472)
- 11 Sicherungsring (DIN 471)
- 12 Passscheibe (DIN 988)
- 13 Passscheibe (DIN 988)
- 14 Passfeder (DIN 6885)
- 15 Distanzscheibe (DIN 127)
- 16 Verschrauben (DIN 933)
- 17 Distanzscheibe (DIN 7603)
- 18 Ölstopfel (DIN 908)
- 19 Distanzscheibe (DIN 127)
- 20 Verschrauben (DIN 933)
- 21 Motor

W 109

Patlatma resmi gövde boyutu ve motor büyüklüğüne göre değişiklik gösterebilir, ayrıntılı patlatma resmi için firmamız ile iletişime geçiniz.

The exploded image may vary depending on the body and motor size, please contact us for the detailed exploded image.

Die Explosionszeichnung kann je nach Gehäusegröße und Motorgröße variieren. Für die detaillierte Explosionszeichnung wenden Sie sich bitte an unser Unternehmen.



- 01 Gövde
- 02 W Mili (Kamalı)
- 03 W Mili (Dişlili)
- 04 Z1 Dişlisi
- 05 Rulman
- 06 Yağ Keçesi
- 07 Yağ Keçesi
- 08 Segman (DIN 472)
- 09 Segman (DIN 471)
- 10 Kama (DIN 9885)
- 11 Kama (DIN 9885)
- 12 Cıvata (DIN 912)

- 01 Gear Case
- 02 W Shaft (With Key)
- 03 W Shaft (With Gear)
- 04 Driving Pinion
- 05 Bearing
- 06 Oil Seal
- 07 Oil Seal
- 08 Circlip (DIN 472)
- 09 Circlip (DIN 471)
- 10 Key (DIN 9885)
- 11 Key (DIN 9885)
- 12 Bolt (DIN 912)

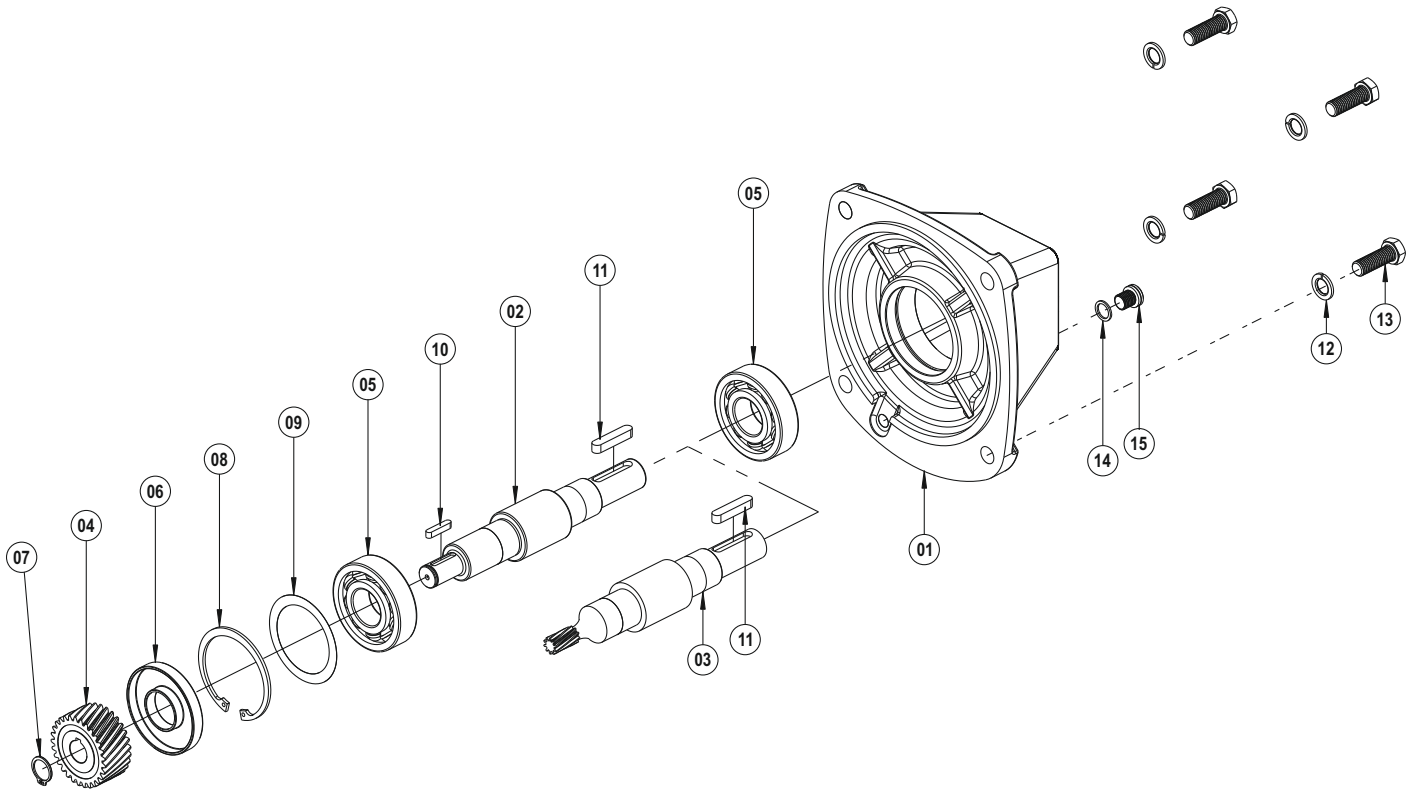
- 01 Gehäuse
- 02 W Welle (mit Passfeder)
- 03 W Welle (mit Zahnrad)
- 04 Antriebsritzel
- 05 Kugellager
- 06 Öldichtung
- 07 Öldichtung
- 08 Sicherungsring (DIN 472)
- 09 Sicherungsring (DIN 471)
- 10 Passfeder (DIN 9885)
- 11 Passfeder (DIN 9885)
- 12 Verschrauben (DIN 912)

W 122 - 172 - 213

Patlatma resmi gövde boyutu ve motor büyüklüğüne göre değişiklik gösterebilir, ayrıntılı patlatma resmi için firmamız ile iletişime geçiniz.

The exploded image may vary depending on the body and motor size, please contact us for the detailed exploded image.

Die Explosionszeichnung kann je nach Gehäusegröße und Motorgröße variieren. Für die detaillierte Explosionszeichnung wenden Sie sich bitte an unser Unternehmen.



- 01 Gövde
- 02 W Mili (Kamalı)
- 03 W Mili (Dişli)
- 04 Z1 Dişlisi (Kamalı)
- 05 Rulman
- 06 Yağ Keçesi
- 07 Segman (DIN 471)
- 08 Segman (DIN 472)
- 09 Layner (DIN 988)
- 10 Kama (DIN 6885)
- 11 Kama (DIN 6885)
- 12 Rondela (DIN 127)
- 13 Cıvata (DIN 933)
- 14 Rondela (DIN 7603)
- 15 Yağ Tapası (DIN 908)

- 01 Gear Case
- 02 W Shaft (With Key)
- 03 W Shaft (With Gear)
- 04 Driving Pinion (With Key)
- 05 Bearing
- 06 Oil Seal
- 07 Circlip (DIN 471)
- 08 Circlip (DIN 472)
- 09 Shim (DIN 988)
- 10 Key (DIN 6885)
- 11 Key (DIN 6885)
- 12 Washer (DIN 127)
- 13 Bolt (DIN 933)
- 14 Washer (DIN 7603)
- 15 Oil Plug (DIN 908)

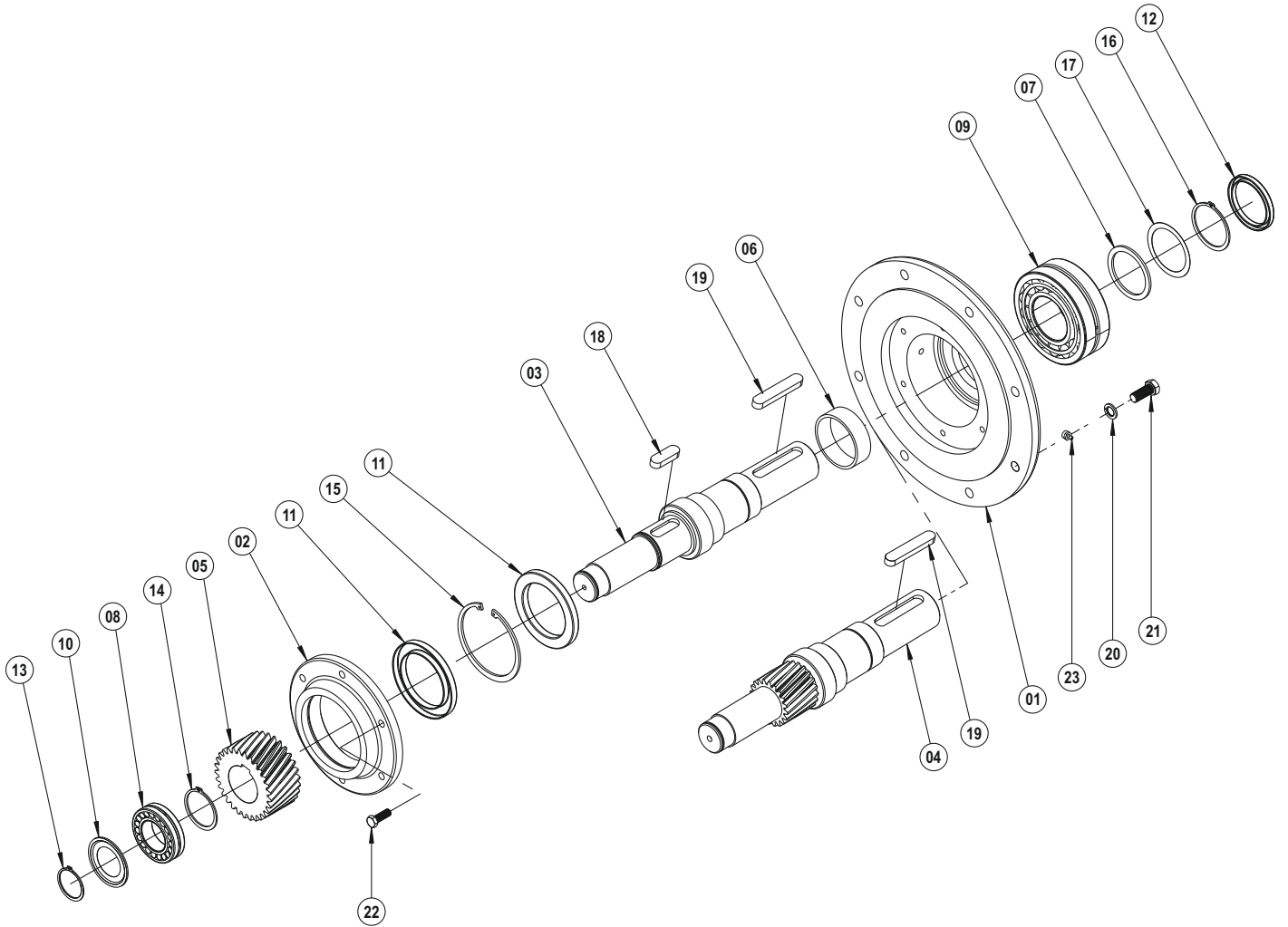
- 01 Gehäuse
- 02 W Welle (mit Passfeder)
- 03 W Welle (mit Zahnrad)
- 04 Antriebsritzel (Mit Passfeder)
- 05 Kugellager
- 06 Öldichtung
- 07 Sicherungsring (DIN 471)
- 08 Sicherungsring (DIN 472)
- 09 Passscheibe (DIN 988)
- 10 Passfeder (DIN 6885)
- 11 Passfeder (DIN 6885)
- 12 Distanzscheibe (DIN 127)
- 13 Verschrauben (DIN 933)
- 14 Distanzscheibe (DIN 7603)
- 15 Ölstopfen (DIN 908)

W 253

Patlatma resmi gövde boyutu ve motor büyüklüğüne göre değişiklik gösterebilir, ayrıntılı patlatma resmi için firmamız ile iletişime geçiniz.

The exploded image may vary depending on the body and motor size, please contact us for the detailed exploded image.

Die Explosionszeichnung kann je nach Gehäusegröße und Motorgröße variieren. Für die detaillierte Explosionszeichnung wenden Sie sich bitte an unser Unternehmen.



- 01 Gövde
- 02 Rulman Kapağı
- 03 W Mili (Kamalı)
- 04 W Mili (Dişli)
- 05 Z1 Dişlisi (Kamalı)
- 06 Burç
- 07 Rondela
- 08 Rulman
- 09 Rulman
- 10 Nilos-Ring
- 11 Yağ Keçesi
- 12 Yağ Keçesi
- 13 Segman (DIN 471)
- 14 Segman (DIN 471)
- 15 Segman (DIN 472)
- 16 Segman (DIN 471)
- 17 Layner (DIN 988)
- 18 Kama (DIN 6885)
- 19 Kama (DIN 6885)
- 20 Rondela (DIN 127)
- 21 Cıvata (DIN 933)
- 22 Cıvata (DIN 933)
- 23 Gresörlük

- 01 Gear Case
- 02 Bearing Cover
- 03 W Shaft (With Key)
- 04 W Shaft (With Gear)
- 05 Driving Pinion (With Key)
- 06 Spacer
- 07 Washer
- 08 Bearing
- 09 Bearing
- 10 Nilos-Ring
- 11 Oil Seal
- 12 Oil Seal
- 13 Circlip (DIN 471)
- 14 Circlip (DIN 471)
- 15 Circlip (DIN 472)
- 16 Circlip (DIN 471)
- 17 Shim (DIN 988)
- 18 Key (DIN 6885)
- 19 Key (DIN 6885)
- 20 Washer (DIN 127)
- 21 Bolt (DIN 933)
- 22 Bolt (DIN 933)
- 23 Grease Nipple

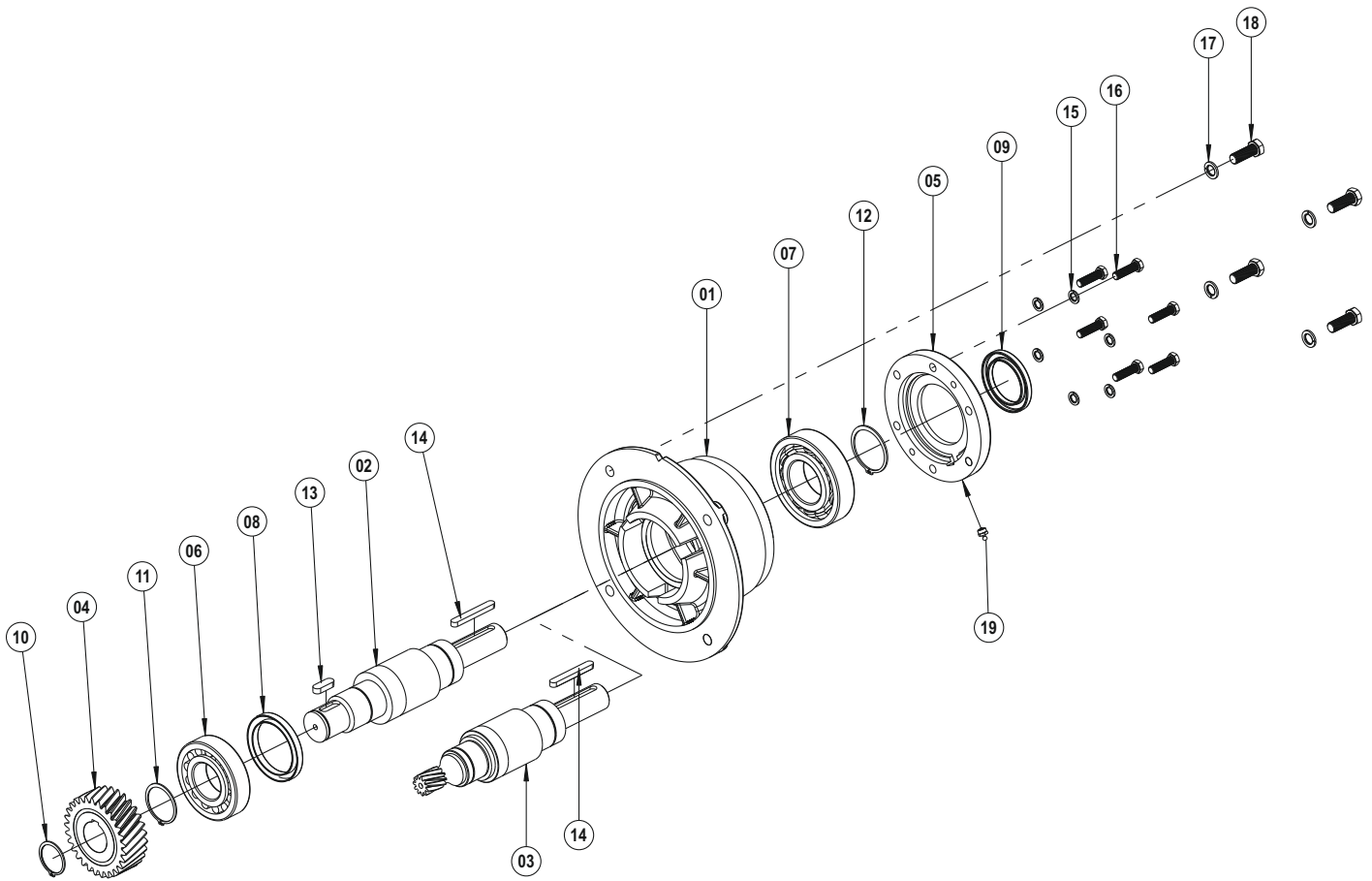
- 01 Gehäuse
- 02 Lagerdeckel
- 03 W Welle (mit Passfeder)
- 04 W Welle (mit Zahnrad)
- 05 Antriebsritzel (mit Passfeder)
- 06 Distanzbuchse
- 07 Distanzscheibe
- 08 Kugellager
- 09 Kugellager
- 10 Nilos-Ring
- 11 Öldichtung
- 12 Öldichtung
- 13 Sicherungsring (DIN 471)
- 14 Sicherungsring (DIN 471)
- 15 Sicherungsring (DIN 472)
- 16 Sicherungsring (DIN 471)
- 17 Passscheibe (DIN 988)
- 18 Passfeder (DIN 6885)
- 19 Passfeder (DIN 6885)
- 20 Distanzscheibe (DIN 127)
- 21 Verschrauben (DIN 933)
- 22 Verschrauben (DIN 933)
- 23 Schmiernippel

W 288

Patlatma resmi gövde boyutu ve motor büyüklüğüne göre değişiklik gösterebilir, ayrıntılı patlatma resmi için firmamız ile iletişime geçiniz.

The exploded image may vary depending on the body and motor size, please contact us for the detailed exploded image.

Die Explosionszeichnung kann je nach Gehäusegröße und Motorgröße variieren. Für die detaillierte Explosionszeichnung wenden Sie sich bitte an unser Unternehmen.



- 01 Gövde
- 02 W Mili (Kamalı)
- 03 W Mili (Dişli)
- 04 Z1 Dişlisi (Kamalı)
- 05 Rulman Flanşı
- 06 Rulman
- 07 Rulman
- 08 Yağ Keçesi
- 09 Yağ Keçesi
- 10 Segman (DIN 471)
- 11 Segman (DIN 471)
- 12 Segman (DIN 471)
- 13 Kama (DIN 6885)
- 14 Kama (DIN 6885)
- 15 Rondela (DIN 127)
- 16 Cıvata (DIN 933)
- 17 Rondela (DIN 127)
- 18 Cıvata (DIN 933)
- 19 Gresörlük

- 01 Gear Case
- 02 W Shaft (With Key)
- 03 W Shaft (With Gear)
- 04 Driving Pinion (With Key)
- 05 Bearing Flange
- 06 Bearing
- 07 Bearing
- 08 Oil Seal
- 09 Oil Seal
- 10 Circlip (DIN 471)
- 11 Circlip (DIN 471)
- 12 Circlip (DIN 471)
- 13 Key (DIN 6885)
- 14 Key (DIN 6885)
- 15 Washer (DIN 127)
- 16 Bolt (DIN 933)
- 17 Washer (DIN 127)
- 18 Bolt (DIN 933)
- 19 Grease Nipple

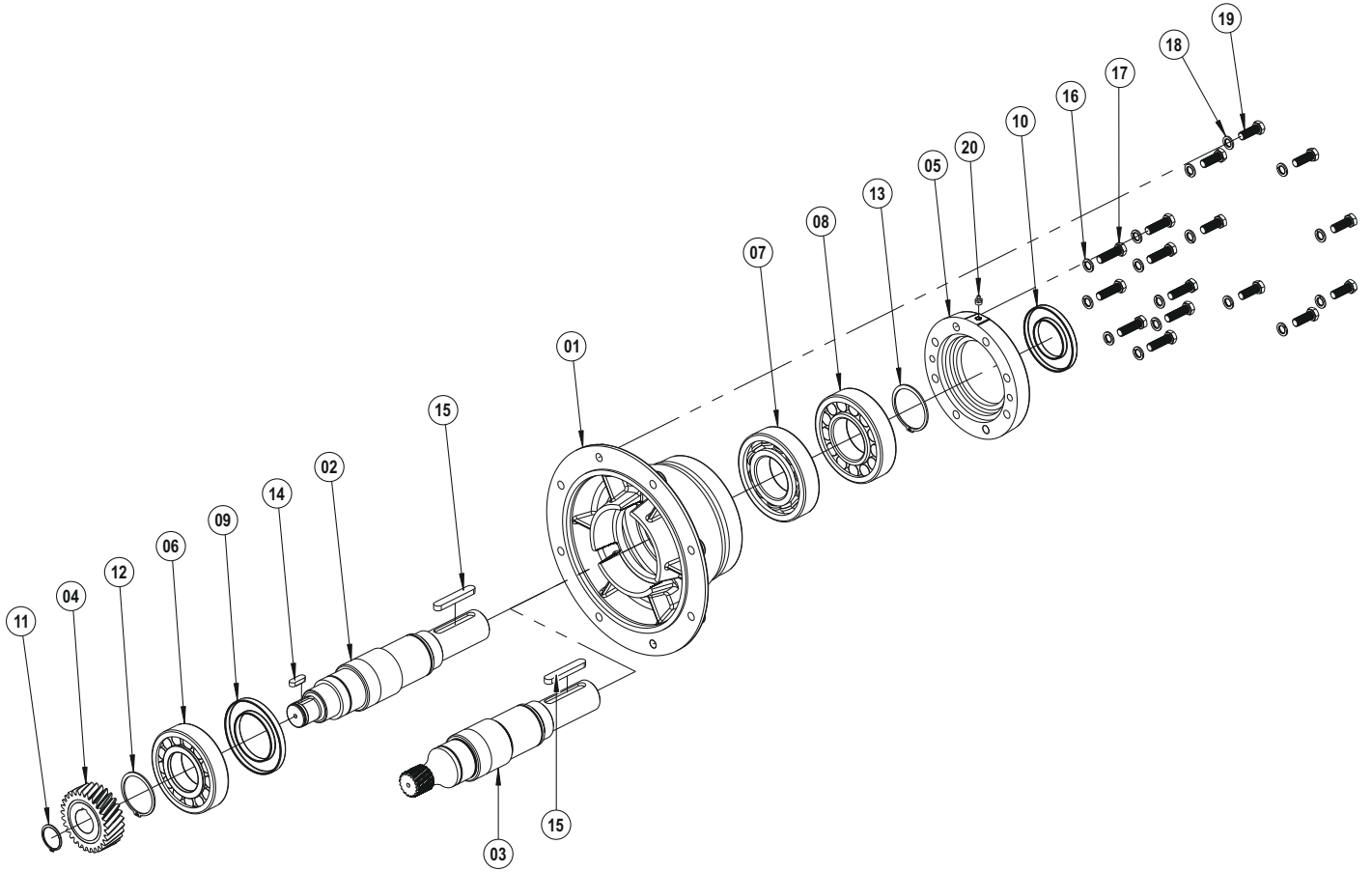
- 01 Gehäuse
- 02 W Welle (mit Passfeder)
- 03 W Welle (mit Zahnrad)
- 04 Antriebsritzel (Mit Passfeder)
- 05 Kugellagerflansch
- 06 Kugellager
- 07 Kugellager
- 08 Öldichtung
- 09 Öldichtung
- 10 Sicherungsring (DIN 471)
- 11 Sicherungsring (DIN 471)
- 12 Sicherungsring (DIN 471)
- 13 Passfeder (DIN 6885)
- 14 Passfeder (DIN 6885)
- 15 Distanzscheibe (DIN 127)
- 16 Verschrauben (DIN 933)
- 17 Distanzscheibe (DIN 127)
- 18 Verschrauben (DIN 933)
- 19 Schmiernippel

W 397

Patlatma resmi gövde boyutu ve motor büyüklüğüne göre değişiklik gösterebilir, ayrıntılı patlatma resmi için firmamız ile iletişime geçiniz.

The exploded image may vary depending on the body and motor size, please contact us for the detailed exploded image.

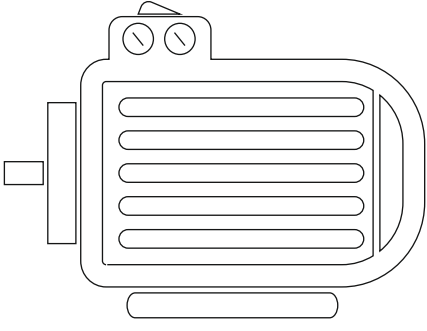
Die Explosionszeichnung kann je nach Gehäusegröße und Motorgröße variieren. Für die detaillierte Explosionszeichnung wenden Sie sich bitte an unser Unternehmen.



- 01 Gövde
- 02 W Mili (Kamalı)
- 03 W Mili (Dişli)
- 04 Z1 Dişlisi (Kamalı)
- 05 Rulman Flanşı
- 06 Rulman
- 07 Rulman
- 08 Rulman
- 09 Yağ Keçesi
- 10 Yağ Keçesi
- 11 Segman (DIN 471)
- 12 Segman (DIN 471)
- 13 Segman (DIN 471)
- 14 Kama (DIN 6885)
- 15 Kama (DIN 6885)
- 16 Rondela (DIN 127)
- 17 Cıvata (DIN 933)
- 18 Rondela (DIN 127)
- 19 Cıvata (DIN 933)
- 20 Gresörlük

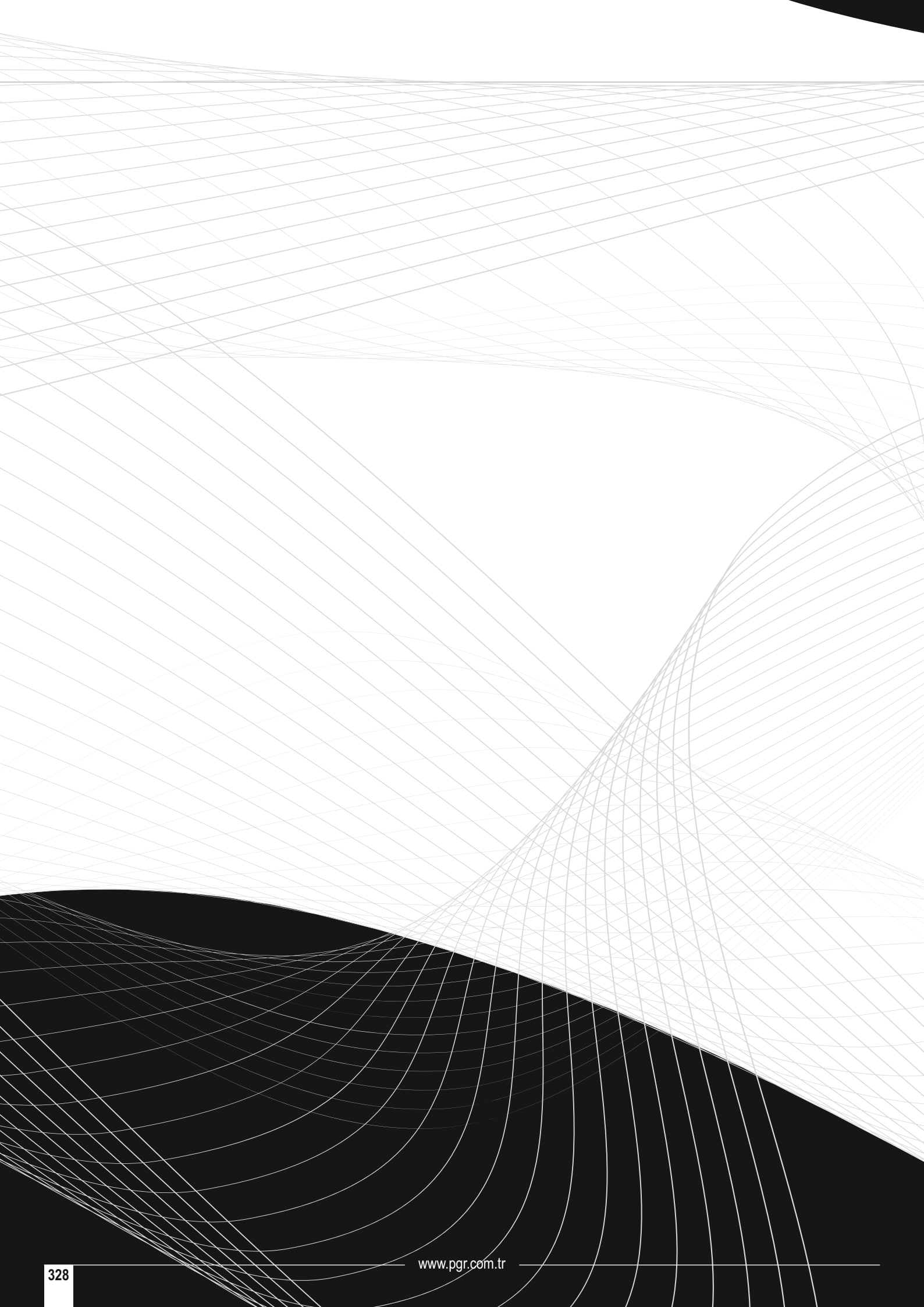
- 01 Gear Case
- 02 W Shaft (With Key)
- 03 W Shaft (With Gear)
- 04 Driving Pinion (With Key)
- 05 Bearing Flange
- 06 Bearing
- 07 Bearing
- 08 Bearing
- 09 Oil Seal
- 10 Oil Seal
- 11 Circlip (DIN 471)
- 12 Circlip (DIN 471)
- 13 Circlip (DIN 471)
- 14 Key (DIN 6885)
- 15 Key (DIN 6885)
- 16 Washer (DIN 127)
- 17 Bolt (DIN 933)
- 18 Washer (DIN 127)
- 19 Bolt (DIN 933)
- 20 Grease Nipple

- 01 Gehäuse
- 02 W Welle (mit Passfeder)
- 03 W Welle (mit Zahnrad)
- 04 Antriebsritzel (Mit Passfeder)
- 05 Kugellagerflansch
- 06 Kugellager
- 07 Kugellager
- 08 Kugellager
- 09 Öldichtung
- 10 Öldichtung
- 11 Sicherungsring (DIN 471)
- 12 Sicherungsring (DIN 471)
- 13 Sicherungsring (DIN 471)
- 14 Passfeder (DIN 6885)
- 15 Passfeder (DIN 6885)
- 16 Distanzscheibe (DIN 127)
- 17 Verschrauben (DIN 933)
- 18 Distanzscheibe (DIN 127)
- 19 Verschrauben (DIN 933)
- 20 Schmiernippel



ÜÇ FAZLI MOTORLAR

THREE PHASE
MOTORS



IE3

ELEKTRİKSEL ÖZELLİKLER - 50 Hz / ELECTRICAL CHARACTERISTICS AT 50 Hz

MOTOR TİPİ MOTOR TYPE	GÖVDE TIPI HOUSING TYPE	NOMINAL RATED VALUES					KALKIŞTAKİ DEĞERLER STARTING VALUES					Devrilme Momenti Oranı Breakdown Torque Ratio Mk/ Mn	VERİM* EFFICIENCY*			Cos φ	J kgm ²	Ağırlık Weight (B3) kg	Ses Basınç Seviyesi Sound Pressure Level dBA**
		GÜÇ POWER		DEVİR SPEED rpm	AKIM CURRENT A	MOMENT TORQUE Nm	AKIM CURRENT I_A / I_N		MOMENT TORQUE M_A / M_N		η%								
		kW	HP				λ	Δ	λ	Δ	4/4		3/4	2/4					
2 kutup 3000 d/dak / 2 pole 3000 rpm																			
230/400V	Q3H80M2C	Aluminium	0,75	1,0	2890	1,6	2,5	8,3	-	3,7	-	4,2	80,7	79,8	76,1	0,85	0,0014	13	57
	Q3H80M2D	Aluminium	1,1	1,5	2890	2,3	3,6	9,1	-	3,9	-	4,3	82,7	82,2	79,3	0,85	0,0017	13	57
	Q3H90L2C	Aluminium	1,5	2,0	2910	3,3	4,9	10,9	-	5,2	-	5,4	84,2	83,3	80,5	0,80	0,0023	16	62
	Q3H90L2D	Aluminium	2,2	3,0	2917	4,3	7,2	9,2	-	3,1	-	4,9	85,9	86,4	85,2	0,87	0,0028	19	62
	Q3H100L2D	Aluminium	3,0	4,0	2890	5,9	9,9	8,1	-	3,2	-	3,5	87,1	88,1	87,7	0,85	0,0031	25	66
400/690V	Q3H112M2C	Aluminium	4,0	5,5	2936	7,5	13,0	3,6	10,9	1,6	4,8	5,7	88,1	88,1	85,8	0,85	0,0064	29	68
	Q3H132S2C	Aluminium	5,5	7,5	2918	10,5	18,0	3,6	10,7	1,2	3,7	5,1	89,2	89,0	87,2	0,86	0,0077	37	69
	Q3H132S2D	Aluminium	7,5	10,0	2918	13,9	24,5	3,6	10,8	1,4	4,3	5,4	90,1	90,3	89,1	0,88	0,0093	43	69
	Q3H160M2C	Aluminium	11,0	15,0	2925	20,7	36,0	3,5	10,5	1,3	3,9	5,2	91,2	91,4	90,6	0,85	0,0352	65	70
	Q3H160M2DE	Aluminium	15,0	20,0	2930	27,9	48,9	3,5	10,5	1,2	3,7	5,2	91,9	91,3	89,8	0,84	0,0402	79	71
	Q3H160L2C	Aluminium	18,5	25,0	2960	32,8	59,9	3,6	10,8	1,1	3,4	4,8	92,4	92,5	91,6	0,89	0,0481	96	70
	Q3H180M2A	Aluminium	22,0	30,0	2961	39,1	70,7	3,5	10,5	1,1	3,2	5,2	92,7	92,5	91,3	0,87	0,0587	114	77
	Q3H200L2C	Aluminium	30,0	40,0	2955	50,3	97,0	3,5	10,5	1,0	3,0	4,5	93,3	93,2	92,2	0,92	0,1028	153	78
	Q3H200L2D	Aluminium	37,0	50,0	2960	61,9	119,4	3,3	9,9	1,0	2,9	4,4	93,7	94,4	94,0	0,92	0,1138	166	78
	Q3E225M2B	Aluminium	45,0	60,0	2965	77,1	144,9	2,8	8,6	0,9	2,4	3,8	94,0	93,7	92,2	0,85	0,2350	249	80
	Q3E250M2A	Aluminium	55,0	75,0	2970	92,1	176,7	2,7	8	0,8	2,5	3,1	94,3	94,1	92,9	0,92	0,50903	279	81
	Q3EP250M2C	Cast Iron	55,0	75,0	2982	93,8	176,1	2,3	7,0	0,9	2,7	3,4	94,3	94,0	92,6	0,90	0,4870	488	81
	Q3EP280M2C	Cast Iron	75,0	100,0	2975	124,9	240,7	2,8	8,4	0,7	2,2	4,4	94,7	94,2	93,1	0,92	0,5400	585	82
	Q3EP280M2D	Cast Iron	90,0	125,0	2975	150,7	288,9	2,8	8,6	0,8	2,4	5,4	95,0	94,7	93,7	0,93	0,6450	596	82
	Q3EP315S2C	Cast Iron	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	Cast Iron	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	Cast Iron	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	Cast Iron	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	Cast Iron	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	Cast Iron	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	Cast Iron	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	
4 kutup 1500 d/dak / 4 pole 1500 rpm																			
230/400V	Q3H80M4D	Aluminium	0,75	1,0	1445	1,7	5,0	6,7	-	2,8	-	3,4	82,5	83,2	80,6	0,77	0,00261	13	52
	Q3H90L4C	Aluminium	1,1	1,5	1447	2,6	7,3	7,2	-	3,1	-	3,7	82,7	82,4	89,5	0,74	0,00328	15	54
	Q3H90L4D	Aluminium	1,5	2,0	1449	3,5	9,9	8,1	-	3,6	-	4,2	85,3	85,0	82,1	0,76	0,00526	20	53
	Q3H100L4C	Aluminium	2,2	3,0	1443	4,9	14,6	9,5	-	5,0	-	5,5	86,7	84,3	80,6	0,75	0,00690	25	55
	Q3H100L4D	Aluminium	3,0	4,0	1446	6,2	19,9	8,4	-	3,3	-	3,8	87,7	88,0	87,0	0,81	0,01059	31	56
400/690V	Q3H112M4D	Aluminium	4,0	5,5	1452	8,2	26,5	3,0	9,1	1,1	3,3	4,1	88,6	88,8	87,3	0,80	0,01383	32	54
	Q3H132S4B	Aluminium	5,5	7,5	1467	10,6	35,8	2,8	8,5	0,7	2,0	3,8	89,6	89,1	87,6	0,84	0,03560	53	60
	Q3H132M4D	Aluminium	7,5	10,0	1467	15,2	48,8	2,7	8,2	0,8	2,3	3,8	90,4	90,7	89,6	0,80	0,04030	58	60
	Q3H160M4C	Aluminium	11,0	15,0	1470	21,0	71,3	2,7	8,0	0,7	2,1	3,8	91,4	91,5	90,4	0,83	0,05940	84	63
	Q3H160L4B	Aluminium	15,0	20,0	1477	30,9	97,1	2,6	7,8	0,9	2,8	3,3	92,1	92,0	90,8	0,76	0,09005	101	62
	Q3H180M4B	Aluminium	18,5	25,0	1474	39,5	119,9	2,5	7,4	0,8	2,3	3,5	92,6	91,9	91,2	0,74	0,11398	118	67
	Q3H180L4B	Aluminium	22,0	30,0	1485	41,6	141,7	3,1	9,2	0,9	2,8	3,6	93,0	93,1	92,3	0,83	0,18660	158	68
	Q3H200L4D	Aluminium	30,0	40,0	1475	54,8	195,5	2,7	8,0	0,8	2,5	3,1	93,6	94,6	94,8	0,85	0,22166	194	68
	Q3E225M4B	Aluminium	37,0	50,0	1485	68,6	237,9	2,9	8,8	1,0	3,1	3,7	93,9	93,8	92,6	0,84	0,36400	280	71
	Q3E225M4C	Aluminium	45,0	60,0	1485	83,1	289,4	3,0	9,2	1,0	3,1	3,7	94,2	94,0	93,3	0,83	0,43500	276	71
	Q3E250M4B	Cast Iron	55,0	75,0	1487	106,9	353,2	3,0	9,2	1,0	3,1	3,7	94,6	94,4	93,5	0,79	0,90782	506	72
	Q3EP280M4C	Cast Iron	75,0	100,0	1485	138,9	482,3	2,6	7,8	1,0	3,0	3,2	95,0	94,8	94,0	0,82	1,06100	638	73
	Q3EP280M4D	Cast Iron	90,0	125,0	1485	163,5	578,7	2,6	7,9	1,0	3,0	3,2	95,2	95,0	93,9	0,86	1,14760	653	73
	Q3EP315S4C	Cast Iron	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	Cast Iron	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	Cast Iron	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	Cast Iron	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	Cast Iron	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	Cast Iron	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	Cast Iron	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

* IEC 60034-2-1'e göre / According to IEC 60034-2-1

** Ses Basınç Seviyeleri motordan 1m uzaktan ölçülmüştür. / The sound pressure measurements are taken 1m away from the motor

*** Tolerans +3 dBA / Tolerance +3 dBA

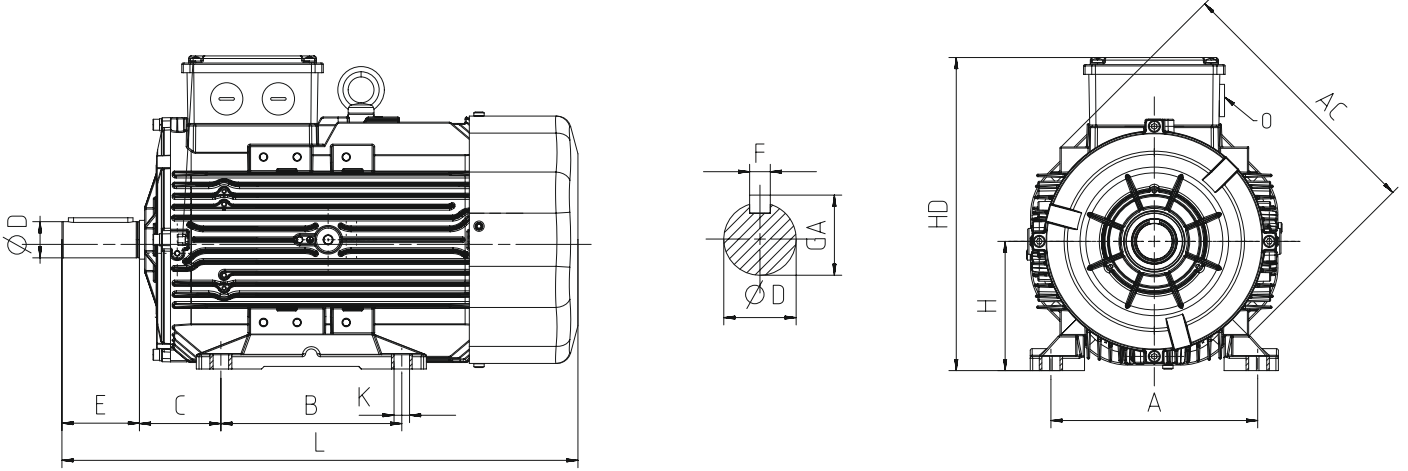
MOTOR TİPİ MOTOR TYPE	GÖVDE TİPİ HOUSING TYPE	NOMİNAL RATED VALUES						KALKIŞTAKİ DEĞERLER STARTING VALUES				Devrilme Momenti Oranı Breakdown Torque Ratio Mk/ Mn	VERİM* EFFICIENCY*			Cos φ	J	Ağırlık Weight (B3)	Ses Basınç Seviyesi Sound Pressure Level dBA **
		GÜÇ POWER		DEVİR SPEED	AKIM CURRENT	MOMENT TORQUE	AKIM CURRENT		MOMENT TORQUE		η%								
		kW	HP				rpm	A	Nm	I_A / I_N	$I_Δ / I_N$		M_A / M_N	$M_Δ / M_N$	4/4				
6 kutup 1000 d/dak / 6 pole 1000 rpm																			
230/400V	Q3H90L6C	Aluminium	0,75	1,0	950	2,1	7,6	4,9	-	2,5	-	3,0	78,9	78,4	74,9	0,67	0,00460	18	53
	Q3H90L6D	Aluminium	1,1	1,5	950	3,0	11,1	4,5	-	2,6	-	2,9	81,0	80,6	78,3	0,67	0,00528	20	53
	Q3H100L6D	Aluminium	1,5	2,0	960	4,1	14,9	4,8	-	2,6	-	3,0	82,5	81,7	78,2	0,65	0,01059	26	55
	Q3H112M6D	Aluminium	2,2	3,0	957	5,2	22,0	4,9	-	2,7	-	3,0	84,3	84,6	83,7	0,71	0,01383	32	57
400/690V	Q3H132S6A	Aluminium	3,0	4,0	978	7,3	29,3	1,9	5,7	0,6	2,0	2,5	85,6	85,2	82,8	0,68	0,03560	53	61
	Q3H132M6A	Aluminium	4,0	5,5	975	9,1	39,2	2,0	6,0	0,7	2,2	2,6	86,8	85,7	82,8	0,72	0,04030	58	60
	Q3H132M6B	Aluminium	5,5	7,5	971	12,0	54,1	2,1	6,3	0,7	2,1	2,6	88,0	87,6	85,3	0,75	0,05940	82	60
	Q3H160M6C	Aluminium	7,5	10,0	976	16,5	73,4	2,0	6,0	0,7	2,2	3,0	89,1	89,0	88,0	0,73	0,07540	88	62
	Q3H160L6D	Aluminium	11,0	15,0	974	24,2	107,8	2,1	6,3	0,7	2,2	3,0	90,3	90,1	89,3	0,73	0,09000	101	62
	Q3H180L6B	Aluminium	15,0	20,0	980	32,2	146,2	2,2	6,6	0,7	2,1	2,9	91,2	90,9	88,7	0,75	0,18660	155	68
	Q3H200L6C	Aluminium	18,5	25,0	981	40,3	180,1	2,3	6,9	0,6	1,9	2,7	91,7	91,6	91,3	0,72	0,23286	194	69
	Q3H200L6D	Aluminium	22,0	30,0	982	50,5	213,9	2,9	5,0	0,6	1,9	2,2	92,2	92,2	91,6	0,69	0,22166	193	69
	Q3E225M6C	Aluminium	30,0	40,0	975	59,1	293,8	1,9	6,1	0,6	1,8	2,5	92,9	92,8	91,8	0,80	0,52900	238	71

* IEC 60034-2-1'e göre / According to IEC 60034-2-1

** Ses Basınç Seviyeleri motordan 1m uzaklıktan ölçülmüştür. / The sound pressure measurements are taken 1m away from the motor

*** Tolerans +3 dBA / Tolerance +3 dBA

BOYUTLAR - B3 / DIMENSION - B3



Güç Power (kW)	Kutup sayısı Number of Poles	Motor Tipi Motor Type	Gövde Tipi Housing Type	Ana Boyutlar Main Dimensions			Ayaklı Motorlar Foot Mounted Motors					Mil Shaft				Rulman Bearing		Keçe Seal		
				AC	L	O	B	A	H	HD	K	C	D ⁽¹⁾	E	GA	F ⁽²⁾	Kasnak Taraflı Drive Side	Kasnak Taraflı Aksı Non Drive Side	Kasnak Taraflı Drive Side	Kasnak Taraflı Aksı Non Drive Side
0,75	2	Q3H80M2C	Aluminium	158	268	1xM20	100	125	80	216	10	50	19	40	21,5	6	6204-ZZ	6204-ZZ	20*30*7	20*30*7
0,75	4	Q3H80M4D	Aluminium	158	268	1xM20	100	125	80	216	10	50	19	40	21,5	6	6204-ZZ	6204-ZZ	20*30*7	20*30*7
0,75	6	Q3H90L6C	Aluminium	172	344	1xM25	100-125	140	90	223	10	56	24	50	27,0	8	6305-ZZ	6205-ZZ	25*40*7	25*40*7
1,1	2	Q3H80M2D	Aluminium	158	268	1xM20	100	125	80	216	10	50	19	40	21,5	6	6204-ZZ	6204-ZZ	20*30*7	20*30*7
1,1	4	Q3H90L4C	Aluminium	158	303	1xM25	100-125	140	90	213	10	56	24	50	27,0	8	6305-ZZ	6204-ZZ	25*40*7	20*30*7
1,1	6	Q3H90L6D	Aluminium	172	344	1xM25	100-125	140	90	223	10	56	24	50	27,0	8	6305-ZZ	6205-ZZ	25*40*7	25*40*7
1,5	2	Q3H90L2C	Aluminium	158	303	1xM25	100-125	140	90	213	10	56	24	50	27,0	8	6305-ZZ	6204-ZZ	25*40*7	20*30*7
1,5	4	Q3H90L4D	Aluminium	172	344	1xM25	100-125	140	90	223	10	56	24	50	27,0	8	6305-ZZ	6205-ZZ	25*40*7	25*40*7
1,5	6	Q3H100L6D	Aluminium	191	400	1xM25	140	160	100	243	12	63	28	60	31,0	8	6306-ZZ	6205-ZZ	30*47*7	30*47*7
2,2	2	Q3H90L2D	Aluminium	172	344	1xM25	100-125	140	90	223	10	56	24	50	27,0	8	6305-ZZ	6205-ZZ	25*40*7	25*40*7
2,2	4	Q3H100L4C	Aluminium	172	384	1xM25	140	160	100	233	12	63	28	60	31,0	8	6306-ZZ	6205-ZZ	30*47*7	25*40*7
2,2	6	Q3H112M6D	Aluminium	210	396	1xM25	140	190	112	265	12	70	28	60	31,0	8	6306-ZZ	6206-ZZ	30*47*7	30*47*7
3	2	Q3H100L2D	Aluminium	172	349	1xM25	140	160	100	233	12	63	28	60	31,0	8	6306-ZZ	6205-ZZ	30*47*7	25*40*7
3	4	Q3H100L4D	Aluminium	191	400	1xM25	140	160	100	243	12	63	28	60	31,0	8	6306-ZZ	6205-ZZ	30*47*7	30*47*7
3	6	Q3H132S6A	Aluminium	260	481	1xM32	140-178	216	132	312	12	89	38	80	41,0	10	6208-ZZ	6208-ZZ	40*62*10	40*62*10
4	2	Q3H112M2C	Aluminium	191	400	1xM25	140	190	112	254	12	70	28	60	31,0	8	6306-ZZ	6205-ZZ	30*47*7	25*40*7
4	4	Q3H112M4D	Aluminium	210	396	1xM25	140	190	112	265	12	70	28	60	31,0	8	6306-ZZ	6206-ZZ	30*47*7	30*47*7
4	6	Q3H132M6A	Aluminium	260	481	1xM32	140-178	216	132	312	12	89	38	80	41,0	10	6208-ZZ	6208-ZZ	40*62*10	40*62*10
5,5	2	Q3H132S2C	Aluminium	210	422	1xM25	140-178	216	132	283	12	89	38	80	41,0	10	6208-ZZ	6206-ZZ	40*62*10	30*47*7
5,5	4	Q3H132S4B	Aluminium	260	481	1xM32	140-178	216	132	312	12	89	38	80	41,0	10	6208-ZZ	6208-ZZ	40*62*10	40*62*10
5,5	6	Q3H132M6B	Aluminium	260	481	1xM32	140-178	216	132	312	12	89	38	80	41,0	10	6208-ZZ	6208-ZZ	40*62*10	40*62*10
7,5	2	Q3H132S2D	Aluminium	210	448	1xM25	140-178	216	132	283	12	89	38	80	41,0	10	6208-ZZ	6206-ZZ	40*62*10	30*47*7
7,5	4	Q3H132M4D	Aluminium	260	481	1xM32	140-178	216	132	312	12	89	38	80	41,0	10	6208-ZZ	6208-ZZ	40*62*10	40*62*10
7,5	6	Q3H160M6C	Aluminium	305	591	1xM32	210-254	254	160	368	14,5	108	42	110	45,0	12	6309-ZZ	6209-ZZ	45*72*10	45*72*10
11	2	Q3H160M2C	Aluminium	260	520	1xM32	210-254	254	160	351	14,5	108	42	110	45,0	12	6309-ZZ	6208-ZZ	45*72*10	40*62*10
11	4	Q3H160M4C	Aluminium	260	578	1xM32	210-254	254	160	351	14,5	108	42	110	45,0	12	6309-ZZ	6208-ZZ	45*72*10	40*62*10
11	6	Q3H160L6D	Aluminium	305	591	1xM32	210-254	254	160	368	14,5	108	42	110	45,0	12	6309-ZZ	6209-ZZ	45*72*10	45*72*10
15	2	Q3H160M2DE	Aluminium	260	580	1xM32	210-254	254	160	351	14,5	108	42	110	45,0	12	6309-ZZ	6208-ZZ	45*72*10	40*62*10
15	4	Q3H160L4B	Aluminium	305	591	1xM32	210-254	254	160	368	14,5	108	42	110	45,0	12	6309-ZZ	6209-ZZ	45*72*10	45*72*10
15	6	Q3H180L6B	Aluminium	349	696	1xM40	241-279	279	180	437	14,5	121	48	110	51,5	14	6310-ZZ	6310-ZZ	50*80*10	50*80*10

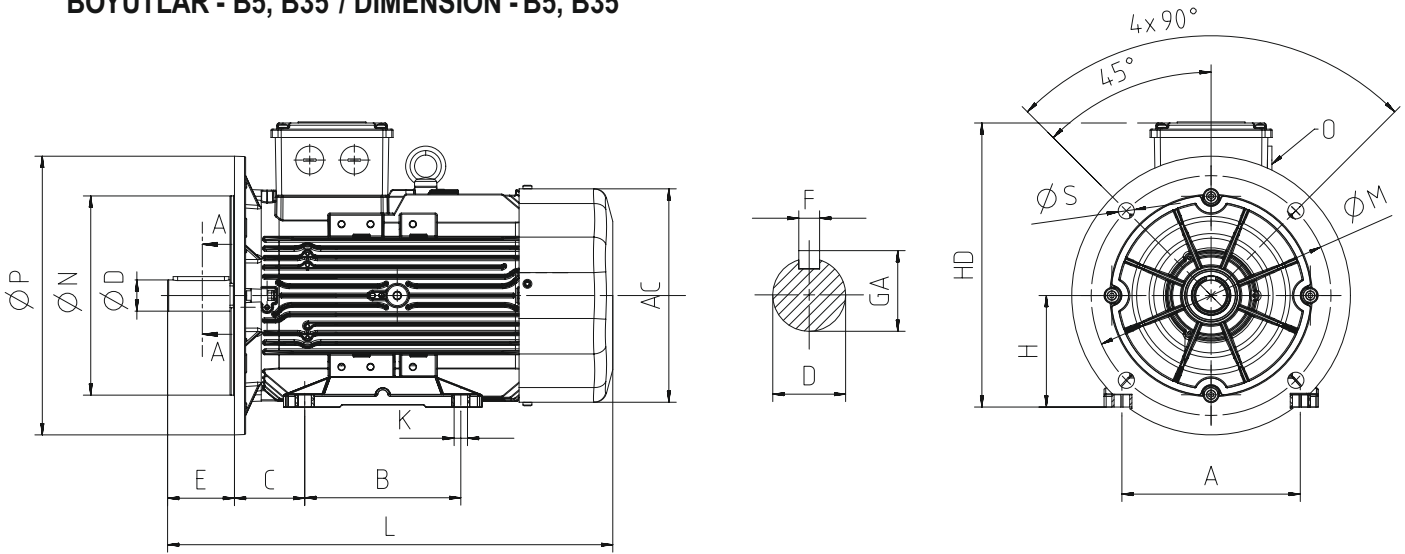
(1) Toleranslar 28 mm'ye kadar DIN EN 50347 "j6", 28 mm ve üzeri "k6" / Tolerance DIN EN 50347 "j6" up to 28mm, "k6" above 28mm
(2) DIN 6885'e göre / According to DIN 6885

Güç Power (kW)	Kutup sayısı Number of Poles	Motor Tipi Motor Type	Gövde Tipi Housing Type	Ana Boyutlar Main Dimensions			Ayaklı Motorlar Foot Mounted Motors						Mil Shaft				Rulman Bearing		Keçe Seal	
				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
18,5	2	Q3H160L2C	Aluminium	305	591	1xM32	210-254	254	160	368	14,5	108	42	110	45,0	12	6309-ZZ	6209-ZZ	45*72*10	45*72*10
18,5	4	Q3H180M4B	Aluminium	305	596	1xM32	241-279	279	180	398	14,5	121	48	110	51,5	14	6310-ZZ	6209-ZZ	50*80*10	45*72*10
18,5	6	Q3H200L6C	Aluminium	349	750	1xM50	305	318	200	455	18,5	133	55	110	59,0	16	6312-ZZ	6310-ZZ	60*90*10	60*90*10
22	2	Q3H180M2B	Aluminium	305	596	1xM32	241-279	279	180	398	14,5	121	48	110	51,5	14	6310-ZZ	6209-ZZ	50*80*10	45*72*10
22	4	Q3H180L4B	Aluminium	349	696	1xM40	241-279	279	180	437	14,5	121	48	110	51,5	14	6310-ZZ	6310-ZZ	50*80*10	50*80*10
22	6	Q3H200L6D	Aluminium	349	759	1xM50	267-305	318	200	455	18,5	133	55	110	59,0	16	6312-ZZ	6310-ZZ	60*90*10	60*90*10
30	2	Q3H200L2C	Aluminium	349	706	1xM50	267-305	318	200	455	18,5	133	55	110	59,0	16	6312-ZZ	6310-ZZ	60*90*10	60*90*10
30	4	Q3H200L4D	Aluminium	349	759	1xM50	267-305	318	200	455	18,5	133	55	110	59,0	16	6312-ZZ	6310-ZZ	60*90*10	60*90*10
30	6	Q3E225M6C	Aluminium	456	765	1xM50	286-311	356	225	485	18,5	149	60	140	64,0	18	6313-ZZ	6313-ZZ	65*100*13	65*100*13
37	2	Q3H200L2D	Aluminium	349	706	1xM50	305	318	200	455	18,5	133	55	110	59,0	16	6312-ZZ	6310-ZZ	60*90*10	60*90*10
37	4	Q3E225M4B	Aluminium	456	765	1xM50	286-311	356	225	485	18,5	149	60	140	64,0	18	6313-ZZ	6313-ZZ	65*100*13	65*100*13
45	2	Q3E225M2B	Aluminium	456	735	1xM50	286-311	356	225	485	18,5	149	55	110	59,0	16	6313-ZZ	6313-ZZ	65*100*13	65*100*13
45	4	Q3E225M4C	Aluminium	456	765	1xM50	286-311	356	225	485	18,5	149	60	140	64,0	18	6313-ZZ	6313-ZZ	65*100*13	65*100*13
55	2	Q3E250M2A	Aluminium	527	886	2xM50	349	406	250	615	24	149	60	140	64,0	18	6315-ZZ	6313-ZZ	75*112*12	65*100*13
55	2	Q3EP250M2C	Cast Iron	489	893	1xM50	349	406	250	616	24	149	60	140	69,0	18	6316	6316	80*100*10	80*100*10
55	4	Q3E250M4B	Cast Iron	489	893	1xM50	349	406	250	616	24	149	65	140	69,0	18	6316	6316	80*100*10	80*100*10
75	2	Q3EP280M2C	Cast Iron	489	1025	1xM50	419	457	280	647	24	190	65	140	69,0	18	6316	6316	80*100*10	80*100*10
75	4	Q3EP280M4C	Cast Iron	489	1025	1xM50	419	457	280	647	24	190	75	140	79,5	20	6316	6316	80*100*10	80*100*10
90	2	Q3EP280M2D	Cast Iron	489	1025	1xM50	419	457	280	647	24	190	65	140	69,0	18	6316	6316	80*100*10	80*100*10
90	4	Q3EP280M4D	Cast Iron	489	1025	1xM50	419	457	280	647	24	190	75	140	79,5	20	6316	6316	80*100*10	80*100*10
110	2	Q3EP315S2C	Cast Iron	652	1176	2xM63	406	508	315	833	28	216	65	140	69	18	6316	6316	80*100*5.5	80*100*5.5
110	4	Q3EP315S4C	Cast Iron	652	1206	2xM63	406	508	315	833	28	216	80	170	85	22	6319	6319	95*115*5.5	95*115*5.5
132	2	Q3EP315M2B	Cast Iron	652	1176	2xM63	457	508	315	833	28	216	65	140	69	18	6316	6316	80*100*5.5	80*100*5.5
132	4	Q3EP315M4B	Cast Iron	652	1206	2xM63	457	508	315	833	28	216	80	170	85	22	6319	6319	95*115*5.5	95*115*5.5
160	2	Q3EP315L2A	Cast Iron	652	1287	2xM63	508	508	315	833	28	216	65	140	69	18	6316	6316	80*100*5.5	80*100*5.5
160	4	Q3EP315L4A	Cast Iron	652	1317	2xM63	508	508	315	833	28	216	80	170	85	22	6319	6319	95*115*5.5	95*115*5.5
200	2	Q3EP315L2C	Cast Iron	652	1287	2xM63	508	508	315	833	28	216	65	140	69	18	6316	6316	80*100*5.5	80*100*5.5
200	4	Q3EP315L4C	Cast Iron	652	1317	2xM63	508	508	315	833	28	216	80	170	85	22	6319	6319	95*115*5.5	95*115*5.5
250	2	Q3EP355M2C	Cast Iron	762	1512	4xM63	560	610	355	997	28	254	75	140	80	20	6317	6317	85*105*5.5	85*105*5.5
250	4	Q3EP355M4C	Cast Iron	762	1542	4xM63	560	610	355	997	28	254	95	170	100	25	6322	6322	110*130*5.5	110*130*5.5
315	2	Q3EP355L2B	Cast Iron	762	1512	4xM63	630	610	355	997	28	254	75	140	80	20	6317	6317	85*105*5.5	85*105*5.5
315	4	Q3EP355L4B	Cast Iron	762	1542	4xM63	630	610	355	997	28	254	95	170	100	25	6322	6322	110*130*5.5	110*130*5.5
355	2	Q3EP355L2C	Cast Iron	762	1512	4xM63	630	610	355	997	28	254	75	140	80	20	6317	6317	85*105*5.5	85*105*5.5
355	4	Q3EP355L4C	Cast Iron	762	1542	4xM63	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" / Tolerance DIN EN 50347 "j6" up to 28mm, "k6" above 28mm

(2) DIN 6885'e göre / According to DIN 6885

BOYUTLAR - B5, B35 / DIMENSION - B5, B35



Güç Power (kW)	Kutup sayısı Number of Poles	Motor Tipi Motor Type	Gövde Tipi Housing Type	Ana Boyutlar Main Dimensions			Ayaklı Motorlar Foot Mounted Motors					Mil Shaft		Rulman Bearing		Keçe Seal		Flanş (FA) (B5) Flange (FA) (B5)						
				AC	L	O	B	A	H	HD	K	D ⁽¹⁾	E	GA	F ⁽²⁾	Kasnak Taraflı Drive Side	Kasnak Taraflı Aksı Non drive Side	Kasnak Taraflı Drive Side	Kasnak Taraflı Aksı Non drive Side	P	N ⁽³⁾	M	R	S
0,75	2	Q3H80M2C	Aluminium	158	268	1xM20	100	125	80	216	10	19	40	21,5	6	6204-ZZ	6204-ZZ	20*30*7	20*30*7	200	130	165	-	12
0,75	4	Q3H80M4D	Aluminium	158	268	1xM20	100	125	80	216	10	19	40	21,5	6	6204-ZZ	6204-ZZ	20*30*7	20*30*7	200	130	165	-	12
0,75	6	Q3H90L6C	Aluminium	172	344	1xM25	100-125	140	90	223	10	24	50	27,0	8	6305-ZZ	6205-ZZ	25*40*7	25*40*7	200	130	165	-	12
1,1	2	Q3H80M2D	Aluminium	158	268	1xM20	100	125	80	216	10	19	40	21,5	6	6204-ZZ	6204-ZZ	20*30*7	20*30*7	200	130	165	-	12
1,1	4	Q3H90L4C	Aluminium	158	303	1xM25	100-125	140	90	213	10	24	50	27,0	8	6305-ZZ	6204-ZZ	25*40*7	20*30*7	200	130	165	-	12
1,1	6	Q3H90L6D	Aluminium	172	344	1xM25	100-125	140	90	223	10	24	50	27,0	8	6305-ZZ	6205-ZZ	25*40*7	25*40*7	200	130	165	-	12
1,5	2	Q3H90L2C	Aluminium	158	303	1xM25	100-125	140	90	213	10	24	50	27,0	8	6305-ZZ	6204-ZZ	25*40*7	20*30*7	200	130	165	-	12
1,5	4	Q3H90L4D	Aluminium	172	344	1xM25	100-125	140	90	223	10	24	50	27,0	8	6305-ZZ	6205-ZZ	25*40*7	25*40*7	200	130	165	-	12
1,5	6	Q3H100L6D	Aluminium	191	400	1xM25	140	160	100	243	12	28	60	31,0	8	6306-ZZ	6205-ZZ	30*47*7	30*47*7	250	180	215	-	14,5
2,2	2	Q3H90L2D	Aluminium	172	344	1xM25	100-125	140	90	223	10	24	50	27,0	8	6305-ZZ	6205-ZZ	25*40*7	25*40*7	200	130	165	-	12
2,2	4	Q3H100L4C	Aluminium	172	384	1xM25	140	160	100	233	12	28	60	31,0	8	6306-ZZ	6205-ZZ	30*47*7	25*40*7	250	180	215	-	14,5
2,2	6	Q3H112M6D	Aluminium	210	396	1xM25	140	190	112	265	12	28	60	31,0	8	6306-ZZ	6206-ZZ	30*47*7	30*47*7	250	180	215	-	14,5
3	2	Q3H100L2D	Aluminium	172	349	1xM25	140	160	100	233	12	28	60	31,0	8	6306-ZZ	6205-ZZ	30*47*7	25*40*7	250	180	215	-	14,5
3	4	Q3H100L4D	Aluminium	191	400	1xM25	140	160	100	243	12	28	60	31,0	8	6306-ZZ	6205-ZZ	30*47*7	30*47*7	250	180	215	-	14,5
3	6	Q3H132S6A	Aluminium	260	481	1xM32	140-178	216	132	312	12	38	80	41,0	10	6208-ZZ	6208-ZZ	40*62*10	40*62*10	300	230	265	-	14,5
4	2	Q3H112M2C	Aluminium	191	399	1xM25	140	190	112	254	12	28	60	31,0	8	6306-ZZ	6205-ZZ	30*47*7	25*40*7	250	180	215	-	14,5
4	4	Q3H112M4D	Aluminium	210	396	1xM25	140	190	112	265	12	28	60	31,0	8	6306-ZZ	6206-ZZ	30*47*7	30*47*7	250	180	215	-	14,5
4	6	Q3H132M6A	Aluminium	260	481	1xM32	140-178	216	132	312	12	38	80	41,0	10	6208-ZZ	6208-ZZ	40*62*10	40*62*10	300	230	265	-	14,5
5,5	2	Q3H132S2C	Aluminium	210	422	1xM25	140-178	216	132	283	12	38	80	41,0	10	6208-ZZ	6206-ZZ	40*62*10	30*47*7	300	230	265	-	14,5
5,5	4	Q3H132S4B	Aluminium	260	481	1xM32	140-178	216	132	312	12	38	80	41,0	10	6208-ZZ	6208-ZZ	40*62*10	40*62*10	300	230	265	-	14,5
5,5	6	Q3H132M6B	Aluminium	260	481	1xM32	140-178	216	132	312	12	38	80	41,0	10	6208-ZZ	6208-ZZ	40*62*10	40*62*10	300	230	265	-	14,5
7,5	2	Q3H132S2D	Aluminium	210	448	1xM25	140-178	216	132	283	12	38	80	41,0	10	6208-ZZ	6206-ZZ	40*62*10	30*47*7	300	230	265	-	14,5
7,5	4	Q3H132M4D	Aluminium	260	481	1xM32	140-178	216	132	312	12	38	80	41,0	10	6208-ZZ	6208-ZZ	40*62*10	40*62*10	300	230	265	-	14,5
7,5	6	Q3H160M6C	Aluminium	305	591	1xM32	210-254	254	160	368	14,5	42	110	45,0	12	6309-ZZ	6209-ZZ	45*72*10	45*72*10	350	250	300	-	18,5
11	2	Q3H160M2C	Aluminium	260	520	1xM32	210-254	254	160	351	14,5	42	110	45,0	12	6309-ZZ	6208-ZZ	45*72*10	40*62*10	350	250	300	-	18,5
11	4	Q3H160M4C	Aluminium	260	580	1xM32	210-254	254	160	351	14,5	42	110	45,0	12	6309-ZZ	6208-ZZ	45*72*10	40*62*10	350	250	300	-	18,5
11	6	Q3H160L6D	Aluminium	305	591	1xM32	210-254	254	160	368	14,5	42	110	45,0	12	6309-ZZ	6209-ZZ	45*72*10	45*72*10	350	250	300	-	18,5
15	2	Q3H160M2DE	Aluminium	260	580	1xM32	210-254	254	160	351	14,5	42	110	45,0	12	6309-ZZ	6208-ZZ	45*72*10	40*62*10	350	250	300	-	18,5
15	4	Q3H160L4B	Aluminium	305	591	1xM32	210-254	254	160	368	14,5	42	110	45,0	12	6309-ZZ	6209-ZZ	45*72*10	45*72*10	350	250	300	-	18,5
15	6	Q3H180L6B	Aluminium	349	696	1xM40	241-279	279	180	437	14,5	48	110	51,5	14	6310-ZZ	6310-ZZ	50*80*10	50*80*10	350	250	300	-	18,5

(1) Toleranslar 28 mm'ye kadar DIN EN 50347 "j6", 28 mm ve üzeri "k6" / Tolerance DIN EN 50347 "j6" up to 28mm, "k6" above 28mm

(2) DIN 6885'e göre / According to DIN 6885

(3) Tolerans DIN EN 50347 "j6" / Tolerance DIN EN 50347 "j6"

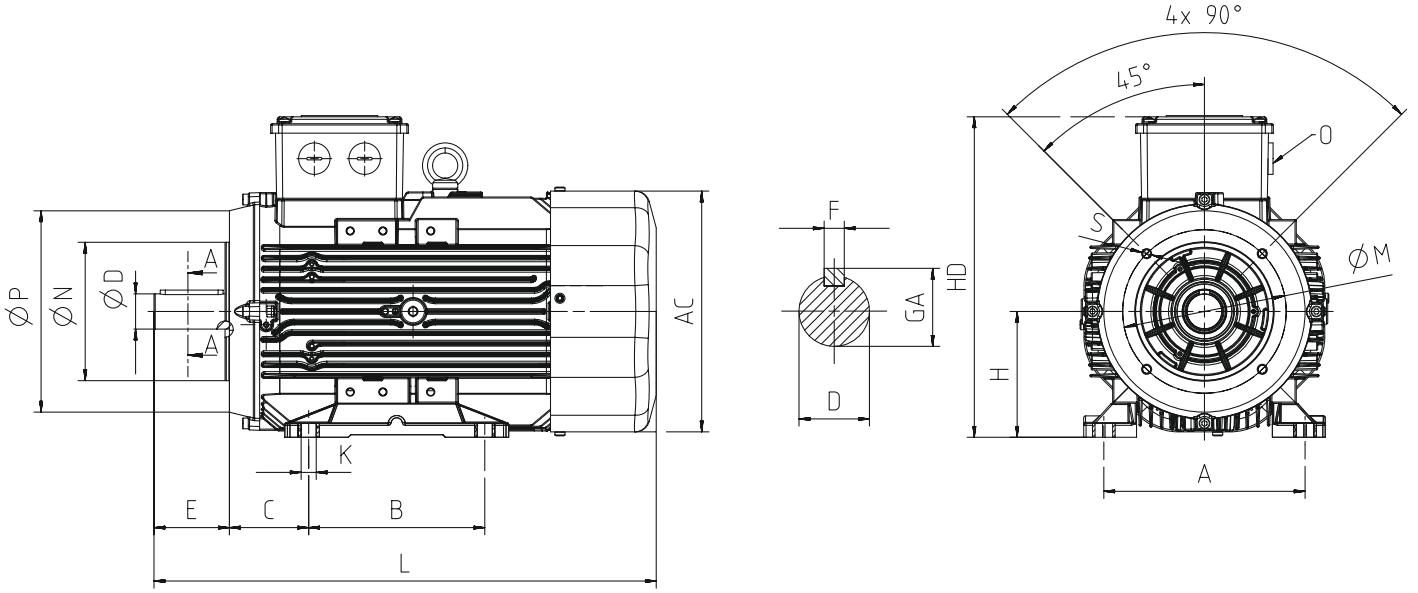
Güç Power (kW)	Kutup sayısı Number of Poles	Motor Tipi Motor Type	Gövde Tipi Housing Type	Ana Boyutlar Main Dimensions			Ayaklı Motorlar Foot Mounted Motors					Mil Shaft				Rulman Bearing		Keçe Seal		Flanş (FA) (B5) Flange (FA) (B5)				
				AC	L	O	B	A	H	HD	K	D ⁽¹⁾	E	GA	F ⁽²⁾	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksli Non drive Side	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksli Non drive Side	P	N ⁽³⁾	M	R	S
18,5	4	Q3H180M4B	Aluminium	305	596	1xM32	241-279	279	180	398	14,5	48	110	51,5	14	6310-ZZ	6209-ZZ	50*80*10	45*72*10	350	250	300	-	18,5
18,5	6	Q3H200L6C	Aluminium	349	750	1xM50	305	318	200	455	18,5	55	110	59,0	16	6312-ZZ	6310-ZZ	60*90*10	60*90*10	400	300	350	-	18,5
22	2	Q3H180M2A	Aluminium	305	596	1xM32	241-279	279	180	398	14,5	48	110	51,5	14	6310-ZZ	6209-ZZ	50*80*10	45*72*10	350	250	300	-	18,5
22	4	Q3H180L4B	Aluminium	349	696	1xM40	241-279	279	180	437	14,5	48	110	51,5	14	6310-ZZ	6310-ZZ	50*80*10	50*80*10	350	250	300	-	18,5
22	6	Q3H200L6D	Aluminium	349	759	1xM50	305	318	200	455	18,5	55	110	59,0	16	6312-ZZ	6310-ZZ	60*90*10	60*90*10	400	300	350	-	18,5
30	2	Q3H200L2C	Aluminium	349	706	1xM50	305	318	200	455	18,5	55	110	59,0	16	6312-ZZ	6310-ZZ	60*90*10	60*90*10	400	300	350	-	18,5
30	4	Q3H200L4D	Aluminium	349	759	1xM50	305	318	200	455	18,5	55	110	59,0	16	6312-ZZ	6310-ZZ	60*90*10	60*90*10	400	300	350	-	18,5
30	6	Q3E225M6C	Aluminium	456	765	1xM50	286-311	356	225	485	18,5	60	140	64,0	18	6313-ZZ	6313-ZZ	65*100*13	65*100*13	450	350	400	-	18,5
37	2	Q3H200L2D	Aluminium	349	706	1xM50	305	318	200	455	18,5	55	110	59,0	16	6312-ZZ	6310-ZZ	60*90*10	60*90*10	400	300	350	-	18,5
37	4	Q3E225M4B	Aluminium	456	765	1xM50	286-311	356	225	485	18,5	60	140	64,0	18	6313-ZZ	6313-ZZ	65*100*13	65*100*13	450	350	400	-	18,5
45	2	Q3E225M2B	Aluminium	456	735	1xM50	286-311	356	225	485	18,5	55	110	59,0	16	6313-ZZ	6313-ZZ	65*100*13	65*100*13	450	350	400	-	18,5
45	4	Q3E225M4C	Aluminium	456	765	1xM50	286-311	356	225	485	18,5	60	140	64,0	18	6313-ZZ	6313-ZZ	65*100*13	65*100*13	450	350	400	-	18,5
55	2	Q3E250M2A	Aluminium	527	886	2*M50	349	406	250	615	24	60	140	64,0	18	6315-ZZ	6313-ZZ	75*112*12	65*100*13	550	450	500	-	18,5
55	2	Q3EP250M2C	Cast Iron	489	893	1xM50	349	406	250	616	24	60	140	69,0	18	6316	6316	80*100*10	80*100*10	550	450	500	-	18,5
55	4	Q3E250M4B	Cast Iron	489	893	1xM50	349	406	250	616	24	65	140	69,0	18	6316	6316	80*100*10	80*100*10	550	450	500	-	18,5
75	2	Q3EP280M2C	Cast Iron	489	1025	1xM50	368-419	457	280	647	24	65	140	69,0	18	6316	6316	80*100*10	80*100*10	550	450	500	-	18,5
75	4	Q3EP280M4C	Cast Iron	489	1025	1xM50	368-419	457	280	647	24	75	140	79,5	20	6316	6316	80*100*10	80*100*10	550	450	500	-	18,5
90	2	Q3EP280M2D	Cast Iron	489	1025	1xM50	368-419	457	280	647	24	65	140	69,0	18	6316	6316	80*100*10	80*100*10	550	450	500	-	18,5
90	4	Q3EP280M4D	Cast Iron	489	1025	1xM50	368-419	457	280	647	24	75	140	79,5	20	6316	6316	80*100*10	80*100*10	550	450	500	-	18,5
110	2	Q3EP315S2C	Cast Iron	652	1176	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
110	4	Q3EP315S4C	Cast Iron	652	1206	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	2	Q3EP315M2B	Cast Iron	652	1176	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
132	4	Q3EP315M4B	Cast Iron	652	1206	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	2	Q3EP315L2A	Cast Iron	652	1287	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
160	4	Q3EP315L4A	Cast Iron	652	1317	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	2	Q3EP315L2C	Cast Iron	652	1287	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
200	4	Q3EP315L4C	Cast Iron	652	1317	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	2	Q3EP355M2C	Cast Iron	762	1512	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
250	4	Q3EP355M4C	Cast Iron	762	1542	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	2	Q3EP355L2B	Cast Iron	762	1512	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
315	4	Q3EP355L4B	Cast Iron	762	1542	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	2	Q3EP355L2C	Cast Iron	762	1512	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
355	4	Q3EP355L4C	Cast Iron	762	1542	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" / Tolerance DIN EN 50347 "j6" up to 28mm, "k6" above 28mm

(2) DIN 6885'e göre / According to DIN 6885

(3) Tolerans DIN EN 50347 "j6" / Tolerance DIN EN 50347 "j6"

BOYUTLAR - B14a, B34a / DIMENSION - B14a, B34a



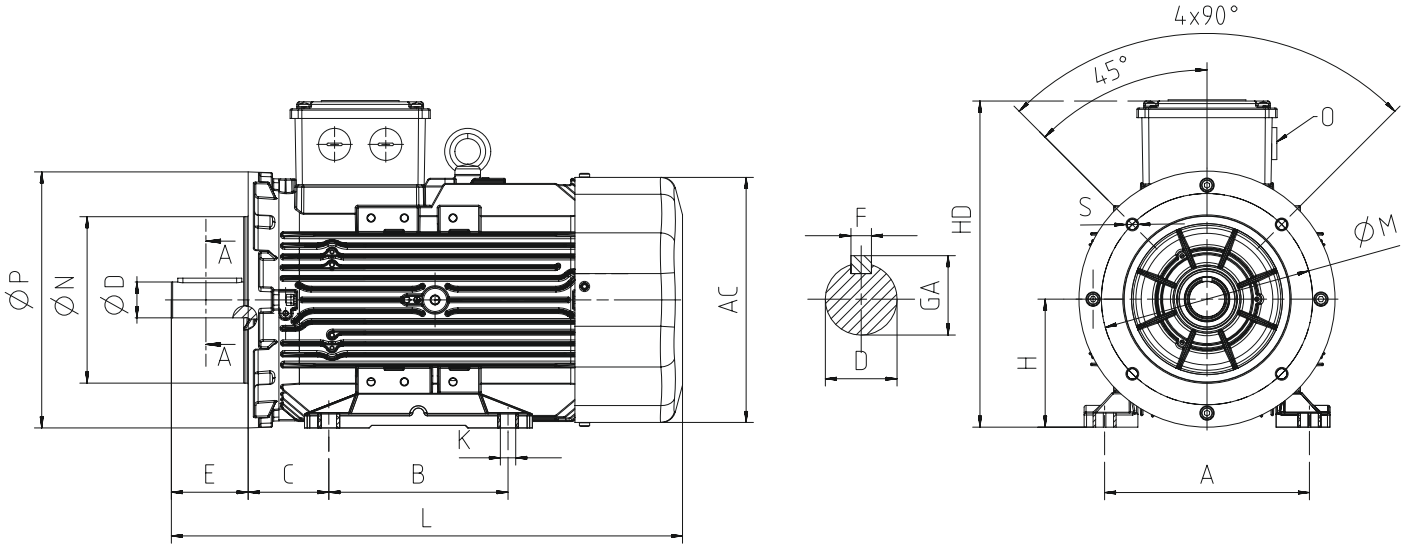
Güç Power (kW)	Kutup sayısı Number of Poles	Motor Tipi Motor Type	Gövde Tipi Housing Type	Ana Boyutlar Main Dimensions			Ayaklı Motorlar Foot Mounted Motors				Mil Shaft		Rulman Bearing		Keçe Seal		Flanş (FC) (B14a) Flange (FC) (B14a)							
				AC	L	O	B	A	H	HD	K	D ⁽¹⁾	E	GA	F ⁽²⁾	Kasnak Taraflı Drive Side	Kasnak Taraflı Aksli Non drive Side	Kasnak Taraflı Drive Side	Kasnak Taraflı Aksli Non drive Side	P	N ⁽³⁾	M	R	S
0,75	2	Q3H80M2C	Aluminium	158	268	1xM20	100	125	80	216	10	19	40	21,5	6	6204-ZZ	6204-ZZ	20*30*7	20*30*7	120	80	100	-	M6
0,75	4	Q3H80M4D	Aluminium	158	268	1xM20	100	125	80	216	10	19	40	21,5	6	6204-ZZ	6204-ZZ	20*30*7	20*30*7	120	80	100	-	M6
0,75	6	Q3H90L6C	Aluminium	172	344	1xM25	100-125	140	90	223	10	24	50	27,0	8	6305-ZZ	6205-ZZ	25*40*7	25*40*7	140	95	115	-	M8
1,1	2	Q3H80M2D	Aluminium	158	268	1xM20	100	125	80	216	10	19	40	21,5	6	6204-ZZ	6204-ZZ	20*30*7	20*30*7	120	80	100	-	M6
1,1	4	Q3H90L4C	Aluminium	158	303	1xM25	100-125	140	90	213	10	24	50	27,0	8	6305-ZZ	6204-ZZ	25*40*7	20*30*7	140	95	115	-	M8
1,1	6	Q3H90L6D	Aluminium	172	344	1xM25	100-125	140	90	223	10	24	50	27,0	8	6305-ZZ	6205-ZZ	25*40*7	25*40*7	140	95	115	-	M8
1,5	2	Q3H90L2C	Aluminium	158	303	1xM25	100-125	140	90	213	10	24	50	27,0	8	6305-ZZ	6204-ZZ	25*40*7	20*30*7	140	95	115	-	M8
1,5	4	Q3H90L4D	Aluminium	172	344	1xM25	100-125	140	90	223	10	24	50	27,0	8	6305-ZZ	6205-ZZ	25*40*7	25*40*7	140	95	115	-	M8
1,5	6	Q3H100L6D	Aluminium	191	400	1xM25	140	160	100	243	12	28	60	31,0	8	6306-ZZ	6205-ZZ	30*47*7	30*47*7	160	110	130	-	M8
2,2	2	Q3H90L2D	Aluminium	172	344	1xM25	100-125	140	90	223	10	24	50	27,0	8	6305-ZZ	6205-ZZ	25*40*7	25*40*7	140	95	115	-	M8
2,2	4	Q3H100L4C	Aluminium	172	384	1xM25	140	160	100	233	12	28	60	31,0	8	6306-ZZ	6205-ZZ	30*47*7	25*40*7	160	110	130	-	M8
2,2	6	Q3H112M6D	Aluminium	210	396	1xM25	140	190	112	265	12	28	60	31,0	8	6306-ZZ	6206-ZZ	30*47*7	30*47*7	160	110	130	-	M8
3	2	Q3H100L2D	Aluminium	172	349	1xM25	140	160	100	233	12	28	60	31,0	8	6306-ZZ	6205-ZZ	30*47*7	25*40*7	160	110	130	-	M8
3	4	Q3H100L4D	Aluminium	191	400	1xM25	140	160	100	243	12	28	60	31,0	8	6306-ZZ	6205-ZZ	30*47*7	30*47*7	160	110	130	-	M8
3	6	Q3H132S6A	Aluminium	260	481	1xM32	140-178	216	132	312	12	38	80	41,0	10	6208-ZZ	6208-ZZ	40*62*10	40*62*10	200	130	165	-	M10
4	2	Q3H112M2C	Aluminium	191	399	1xM25	140	190	112	254	12	28	60	31,0	8	6306-ZZ	6205-ZZ	30*47*7	25*40*7	160	110	130	-	M8
4	4	Q3H112M4D	Aluminium	210	396	1xM25	140	190	112	265	12	28	60	31,0	8	6306-ZZ	6206-ZZ	30*47*7	30*47*7	160	110	130	-	M8
4	6	Q3H132M6A	Aluminium	260	481	1xM32	140-178	216	132	312	12	38	80	41,0	10	6208-ZZ	6208-ZZ	40*62*10	40*62*10	200	130	165	-	M10
5,5	2	Q3H132S2C	Aluminium	210	422	1xM25	140-178	216	132	283	12	38	80	41,0	10	6208-ZZ	6206-ZZ	40*62*10	30*47*7	200	130	165	-	M10
5,5	4	Q3H132S4B	Aluminium	260	481	1xM32	140-178	216	132	312	12	38	80	41,0	10	6208-ZZ	6208-ZZ	40*62*10	40*62*10	200	130	165	-	M10
5,5	6	Q3H132M6B	Aluminium	260	481	1xM32	140-178	216	132	312	12	38	80	41,0	10	6208-ZZ	6208-ZZ	40*62*10	40*62*10	200	130	165	-	M10
7,5	2	Q3H132S2D	Aluminium	210	448	1xM25	140-178	216	132	283	12	38	80	41,0	10	6208-ZZ	6206-ZZ	40*62*10	30*47*7	200	130	165	-	M10
7,5	4	Q3H132M4D	Aluminium	260	481	1xM32	140-178	216	132	312	12	38	80	41,0	10	6208-ZZ	6208-ZZ	40*62*10	40*62*10	200	130	165	-	M10

(1) Toleranslar 28 mm'ye kadar DIN EN 50347 "j6", 28 mm ve üzeri "k6" / Tolerance DIN EN 50347 "j6" up to 28mm, "k6" above 28mm

(2) DIN 6885'e göre / According to DIN 6885

(3) Tolerans DIN EN 50347 "j6" / Tolerance DIN EN 50347 "j6"

BOYUTLAR - B14b, B34b / DIMENSION - B14b, B34b



Güç Power (kW)	Kutup sayısı Number of Poles	Motor Tipi Motor Type	Gövde Tipi Housing Type	Ana Boyutlar Main Dimensions			Ayaklı Motorlar Foot Mounted Motors					Mil Shaft		Rulman Bearing		Keçe Seal		Flanş (FB) (B14b) Flange (FB) (B14b)						
				AC	L	O	B	A	H	HD	K	D ⁽¹⁾	E	GA	F ⁽²⁾	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksli Non drive Side	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksli Non drive Side	P	N ⁽³⁾	M	R	S
0,75	2	Q3H80M2C	Aluminium	158	268	1xM20	100	125	80	216	10	19	40	21,5	6	6204-ZZ	6204-ZZ	20*30*7	20*30*7	160	110	130	-	M8
0,75	4	Q3H80M4D	Aluminium	158	268	1xM20	100	125	80	216	10	19	40	21,5	6	6204-ZZ	6204-ZZ	20*30*7	20*30*7	160	110	130	-	M8
0,75	6	Q3H90L6C	Aluminium	172	344	1xM25	100-125	140	90	223	10	24	50	27,0	8	6305-ZZ	6205-ZZ	25*40*7	25*40*7	160	110	130	-	M8
1,1	2	Q3H80M2D	Aluminium	158	268	1xM20	100	125	80	216	10	19	40	21,5	6	6204-ZZ	6204-ZZ	20*30*7	20*30*7	160	110	130	-	M8
1,1	4	Q3H90L4C	Aluminium	158	303	1xM25	100-125	140	90	213	10	24	50	27,0	8	6305-ZZ	6204-ZZ	25*40*7	20*30*7	160	110	130	-	M8
1,1	6	Q3H90L6D	Aluminium	172	344	1xM25	100-125	140	90	223	10	24	50	27,0	8	6305-ZZ	6205-ZZ	25*40*7	25*40*7	160	110	130	-	M8
1,5	2	Q3H90L2C	Aluminium	158	303	1xM25	100-125	140	90	213	10	24	50	27,0	8	6305-ZZ	6204-ZZ	25*40*7	20*30*7	160	110	130	-	M8
1,5	4	Q3H90L4D	Aluminium	172	344	1xM25	100-125	140	90	223	10	24	50	27,0	8	6305-ZZ	6205-ZZ	25*40*7	25*40*7	160	110	130	-	M8
1,5	6	Q3H100L6D	Aluminium	191	400	1xM25	140	160	100	243	12	28	60	31,0	8	6306-ZZ	6205-ZZ	30*47*7	30*47*7	200	130	130	-	M10
2,2	2	Q3H90L2D	Aluminium	172	344	1xM25	100-125	140	90	223	10	24	50	27,0	8	6305-ZZ	6205-ZZ	25*40*7	25*40*7	260	110	130	-	M8
2,2	4	Q3H100L4C	Aluminium	172	384	1xM25	140	160	100	233	12	28	60	31,0	8	6306-ZZ	6205-ZZ	30*47*7	25*40*7	200	130	165	-	M10
2,2	6	Q3H112M6D	Aluminium	210	396	1xM25	140	190	112	265	12	28	60	31,0	8	6306-ZZ	6206-ZZ	30*47*7	30*47*7	200	130	165	-	M10
3	2	Q3H100L2D	Aluminium	172	349	1xM25	140	160	100	233	12	28	60	31,0	8	6306-ZZ	6205-ZZ	30*47*7	25*40*7	200	130	165	-	M10
3	4	Q3H100L4D	Aluminium	191	400	1xM25	140	160	100	243	12	28	60	31,0	8	6306-ZZ	6205-ZZ	30*47*7	30*47*7	200	130	165	-	M10
3	6	Q3H132S6A	Aluminium	260	481	1xM32	140-178	216	132	312	12	38	80	41,0	10	6208-ZZ	6208-ZZ	40*62*10	40*62*10	250	180	215	-	M12
4	2	Q3H112M2C	Aluminium	191	399	1xM25	140	190	112	254	12	28	60	31,0	8	6306-ZZ	6205-ZZ	30*47*7	25*40*7	200	130	165	-	M10
4	4	Q3H112M4D	Aluminium	210	396	1xM25	140	190	112	265	12	28	60	31,0	8	6306-ZZ	6206-ZZ	30*47*7	30*47*7	200	130	165	-	M10
4	6	Q3H132M6A	Aluminium	260	481	1xM32	140-178	216	132	312	12	38	80	41,0	10	6208-ZZ	6208-ZZ	40*62*10	40*62*10	250	180	215	-	M12
5,5	2	Q3H132S2C	Aluminium	210	422	1xM25	140-178	216	132	283	12	38	80	41,0	10	6208-ZZ	6206-ZZ	40*62*10	30*47*7	250	180	215	-	M12
5,5	4	Q3H132S4B	Aluminium	260	481	1xM32	140-178	216	132	312	12	38	80	41,0	10	6208-ZZ	6208-ZZ	40*62*10	40*62*10	250	180	215	-	M12
5,5	6	Q3H132M6B	Aluminium	260	481	1xM32	140-178	216	132	312	12	38	80	41,0	10	6208-ZZ	6208-ZZ	40*62*10	40*62*10	250	180	215	-	M12
7,5	2	Q3H132S2D	Aluminium	210	448	1xM25	140-178	216	132	283	12	38	80	41,0	10	6208-ZZ	6206-ZZ	40*62*10	30*47*7	250	180	215	-	M12
7,5	4	Q3H132M4D	Aluminium	260	481	1xM32	140-178	216	132	312	12	38	80	41,0	10	6208-ZZ	6208-ZZ	40*62*10	40*62*10	250	180	215	-	M12

(1) Toleranslar 28 mm'ye kadar DIN EN 50347 "j6", 28 mm ve üzeri "k6" / Tolerance DIN EN 50347 "j6" up to 28mm, "k6" above 28mm

(2) DIN 6885'e göre / According to DIN 6885

(3) Tolerans DIN EN 50347 "j6" / Tolerance DIN EN 50347 "j6"

ELEKTRİKSEL ÖZELLİKLER - 50 Hz / ELECTRICAL CHARACTERISTICS AT 50 Hz

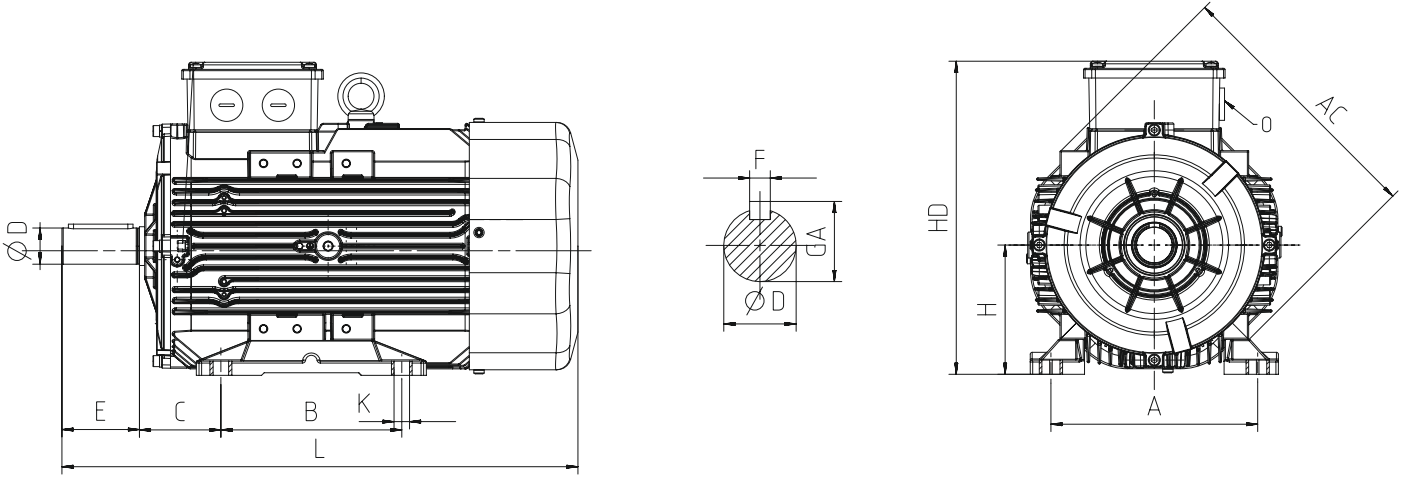
MOTOR TİPİ MOTOR TYPE	GÖVDE TIPI HOUSING TYPE	NOMINAL RATED VALUES					KALKIŞTAKİ DEĞERLER STARTING VALUES				Devrilme Momenti Oranı Breakdown Torque Ratio Mk/ Mn	VERİM* EFFICIENCY*			Cos φ	J	Ağırlık Weight (B3)	Ses Basınç Seviyesi Sound Pressure Level dB**	
		GÜÇ POWER		DEVİR SPEED rpm	AKIM CURRENT A	MOMENT TORQUE Nm	AKIM CURRENT I_A / I_N		MOMENT TORQUE M_A / M_N			η%							
		kW	HP				λ	Δ	λ	Δ		4/4	3/4	2/4					
2 kutup 3000 d/dak / 2 pole 3000 rpm																			
230/400V	Q3H80M2DE	Aluminium	1,5	2,0	2905	3,2	4,9	10,9	-	5	-	5,4	84,2	83,3	80,5	0,80	0,00224	15	59
	Q3H90L2E	Aluminium	3,0	4,0	2890	5,8	9,9	8,1	-	3	-	3,5	87,1	88,1	87,7	0,86	0,00318	19	63
400/690V	Q3H100L2DE	Aluminium	4,0	5,5	2936	8,0	13,0	3,6	10,9	1,6	4,8	5,7	88,1	88,1	85,8	0,82	0,00611	29	66
	Q3H112M2D	Aluminium	5,5	7,5	2920	10,5	18,1	3,5	10,5	1,2	3,7	5,1	89,2	89,0	87,2	0,86	0,00741	32	68
	Q3H112M2DE	Aluminium	7,5	10,0	2918	13,6	24,5	3,6	10,7	1,4	4,3	5,4	90,1	90,3	89,1	0,88	0,00921	42	69
	Q3H132M2A	Aluminium	11,0	15,0	2925	20,7	36,0	3,5	10,5	1,3	3,9	5,2	91,2	91,4	90,6	0,85	0,03489	61	69
	Q3H132M2B	Aluminium	15,0	20,0	2935	27,6	48,8	3,5	10,4	1,2	3,7	5,2	91,9	91,3	89,8	0,86	0,00402	77	71
	Q3H160L2D	Aluminium	22,0	30,0	2961	39,1	71,0	3,5	10,6	1,2	3,6	5,1	92,7	92,4	91,3	0,87	0,05539	114	70
	Q3H180M2B	Aluminium	30,0	40,0	2957	50,1	96,9	3,2	9,6	1,0	2,9	3,9	93,3	93,2	92,6	0,93	0,10277	148	77
Q3H200L2DE	Aluminium	45,0	60,0	2964	75,2	145,0	3,6	10,7	1,0	3,0	2,7	94,0	93,3	92,8	0,92	0,14769	199	78	
4 kutup 1500 d/dak / 4 pole 1500 rpm																			
230/400V	Q3H80M4DE	Aluminium	1,1	1,5	1448	2,6	7,3	7,2	-	3,1	-	3,7	82,7	82,4	89,5	0,75	0,00306	14	48
	Q3H90L4DE	Aluminium	2,2	3,0	1453	5,4	14,4	9,5	-	5,0	-	5,5	86,7	84,3	80,6	0,68	0,00690	25	54
400/690V	Q3H100L4E	Aluminium	4,0	5,5	1445	8,8	26,4	8,6	-	3,5	-	4,2	88,6	87,1	85,6	0,75	0,01124	35	56
	Q3H112M4E	Aluminium	5,5	7,5	1443	11,25	36,4	2,8	8,3	1,0	3,1	3,8	89,6	89,2	88,3	0,80	0,01526	40	57
	Q3H132M4E	Aluminium	11,0	15,0	1470	19,2	71,3	2,7	8,0	0,7	2,1	3,8	91,4	91,5	90,4	0,90	0,05940	82	63
	Q3H160L4C	Aluminium	18,5	25,0	1474	39,5	119,9	2,5	7,4	0,8	2,3	3,5	92,6	91,9	91,2	0,74	0,10511	114	58
	Q3H180L4C	Aluminium	30,0	40,0	1475	54,8	194,2	2,5	7,6	0,8	2,3	2,8	93,6	93,2	92,3	0,85	0,22165	187	69

* IEC 60034-2-1'e göre / According to IEC 60034-2-1

** Ses Basınç Seviyeleri motordan 1m uzaklıktan ölçülmüştür. / The sound pressure measurements are taken 1m away from the motor

*** Tolerans +3 dBA / Tolerance +3 dBA

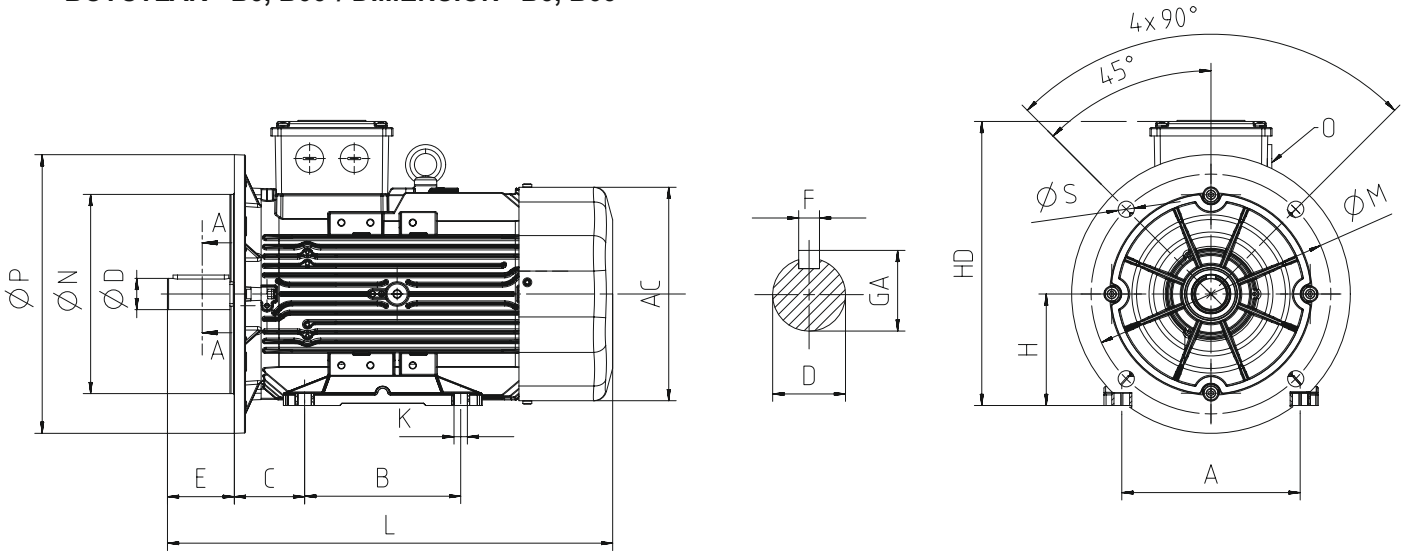
BOYUTLAR - B3 / DIMENSION - B3



Güç Power (kW)	Kutup sayısı Number of Poles	Motor Tipi Motor Type	Gövde Tipi Housing Type	Ana Boyutlar Main Dimensions			Ayaklı Motorlar Foot Mounted Motors					Mil Shaft				Rulman Bearing		Keçe Seal		
				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
1,1	4	Q3H80M4DE	Aluminium	158	268	1xM20	100	125	80	216	10	50	19	40	21,5	6	6204-ZZ	6204-ZZ	20*30*7	20*30*7
1,5	2	Q3H80M2DE	Aluminium	158	268	1xM20	100	125	80	216	10	50	19	40	21,5	6	6204-ZZ	6204-ZZ	20*30*7	20*30*7
2,2	4	Q3H90L4DE	Aluminium	172	344	1xM25	100-125	140	90	223	10	56	24	50	27,0	8	6305-ZZ	6205-ZZ	25*40*7	25*40*7
3,0	2	Q3H90L2E	Aluminium	172	344	1xM25	100-125	140	90	223	10	56	24	50	27,0	8	6305-ZZ	6205-ZZ	25*40*7	25*40*7
4,0	2	Q3H100L2DE	Aluminium	191	400	1xM25	140	160	100	243	12	63	28	60	31,0	8	6306-ZZ	6205-ZZ	30*47*7	30*47*7
4,0	4	Q3H100L4E	Aluminium	191	422	1xM25	140	160	100	243	12	63	28	60	31,0	8	6306-ZZ	6205-ZZ	30*47*7	30*47*7
5,5	2	Q3H112M2D	Aluminium	210	396	1xM25	140	190	112	265	12	70	28	60	31,0	8	6306-ZZ	6206-ZZ	30*47*7	30*47*7
5,5	4	Q3H112M4E	Aluminium	210	421	1xM25	140	190	112	265	12	70	28	60	31,0	8	6306-ZZ	6206-ZZ	30*47*7	30*47*7
7,5	2	Q3H112M2DE	Aluminium	210	421	1xM25	140	190	112	265	12	70	28	60	31,0	8	6306-ZZ	6206-ZZ	30*47*7	30*47*7
11,0	2	Q3H132M2A	Aluminium	260	481	1xM32	140-178	216	132	312	12	89	38	80	41,0	10	6208-ZZ	6208-ZZ	40*62*10	40*62*10
11,0	4	Q3H132M4E	Aluminium	260	520	1xM32	140-178	216	132	312	12	89	38	80	41,0	10	6309-ZZ	6209-ZZ	40*62*10	40*62*10
15,0	2	Q3H132M2B	Aluminium	260	520	1xM32	140-178	216	132	312	12	89	38	80	41,0	10	6208-ZZ	6208-ZZ	40*62*10	40*62*10
18,5	4	Q3H160L4C	Aluminium	305	591	1xM32	210-254	254	160	368	14,5	108	42	110	45,0	12	6309-ZZ	6209-ZZ	45*72*10	45*72*10
30,0	4	Q3H180L4C	Aluminium	349	696	1xM40	241-279	279	180	437	14,5	121	48	110	51,5	14	6310-ZZ	6310-ZZ	50*80*10	50*80*10
22,0	2	Q3H160L2D	Aluminium	305	591	1xM32	210-254	254	160	368	14,5	108	42	110	45,0	12	6309-ZZ	6209-ZZ	45*72*10	45*72*10
30,0	2	Q3H180M2B	Aluminium	349	696	1xM40	241-279	279	180	437	14,5	121	48	110	51,5	14	6310-ZZ	6310-ZZ	50*80*10	50*80*10
45,0	2	Q3H200L2DE	Aluminium	349	759	1xM50	267-305	318	200	455	18,5	133	55	110	59,0	16	6312-ZZ	6310-ZZ	60*90*10	60*90*10

(1) Toleranslar 28 mm'ye kadar DIN EN 50347 "j6", 28 mm ve üzeri "k6" / Tolerance DIN EN 50347 "j6" up to 28mm, "k6" above 28mm
(2) DIN 6885'e göre / According to DIN 6885

BOYUTLAR - B5, B35 / DIMENSION - B5, B35



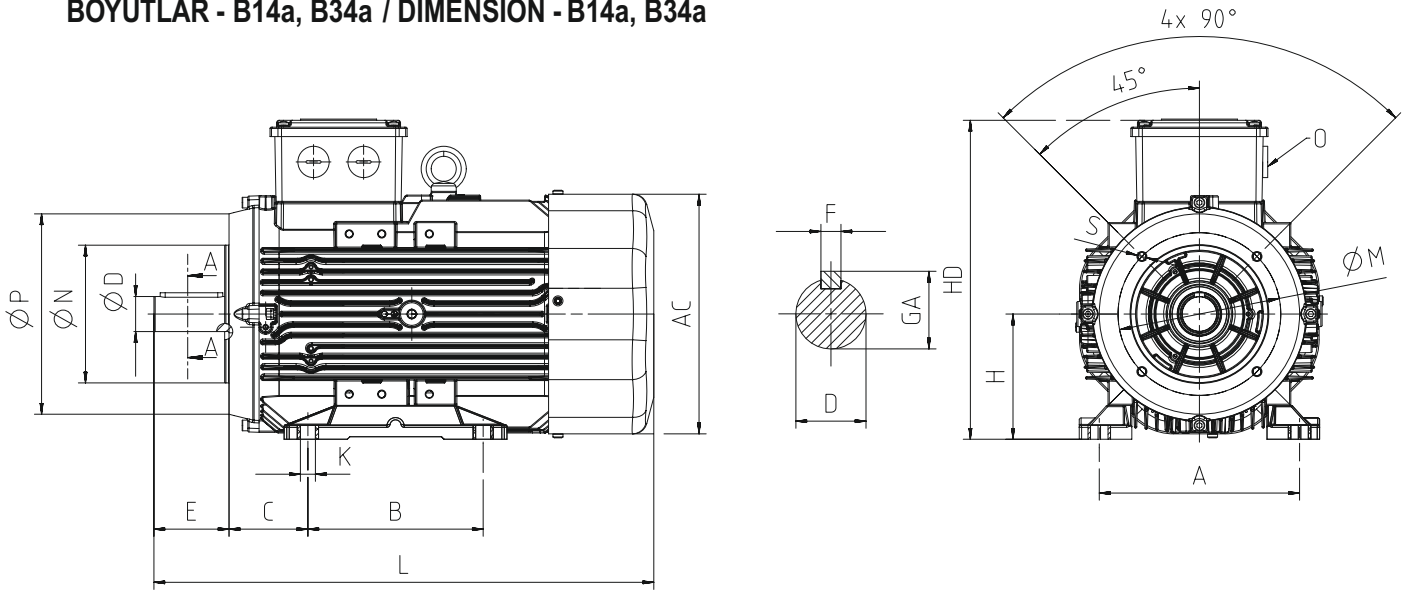
Güç Power (kW)	Kutup sayısı Number of Poles	Motor Tipi Motor Type	Gövde Tipi Housing Type	Ana Boyutlar Main Dimensions			Ayaklı Motorlar Foot Mounted Motors					Mil Shaft				Rulman Bearing		Keçe Seal		Flanş (FA) (B5) Flange (FA) (B5)				
				AC	L	O	B	A	H	HD	K	D ⁽¹⁾	E	GA	F ⁽²⁾	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksı Non drive Side	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksı Non drive Side	P	N ⁽³⁾	M	R	S
1,1	4	Q3H80M4DE	Aluminium	158	268	1xM20	100	125	80	216	10	19	40	21,5	6	6204-ZZ	6204-ZZ	20*30*7	20*30*7	200	130	165	-	12
1,5	2	Q3H80M2DE	Aluminium	158	268	1xM20	100	125	80	216	10	19	40	21,5	6	6204-ZZ	6204-ZZ	20*30*7	20*30*7	200	130	165	-	12
2,2	4	Q3H90L4DE	Aluminium	172	344	1xM25	100-125	140	90	223	10	24	50	27,0	8	6305-ZZ	6205-ZZ	25*40*7	25*40*7	200	130	165	-	12
3	2	Q3H90L2E	Aluminium	172	344	1xM25	100-125	140	90	223	10	24	50	27,0	8	6305-ZZ	6205-ZZ	25*40*7	25*40*7	200	130	165	-	12
4	2	Q3H100L2DE	Aluminium	191	400	1xM25	140	160	100	243	12	28	60	31,0	8	6306-ZZ	6205-ZZ	30*47*7	30*47*7	250	180	215	-	14,5
4	4	Q3H100L4E	Aluminium	191	422	1xM25	140	160	100	243	12	28	60	31,0	8	6306-ZZ	6205-ZZ	30*47*7	30*47*7	250	180	215	-	14,5
5,5	2	Q3H112M2D	Aluminium	210	396	1xM25	140	190	112	265	12	28	60	31,0	8	6306-ZZ	6206-ZZ	30*47*7	30*47*7	250	180	215	-	14,5
5,5	4	Q3H112M4E	Aluminium	210	421	1xM25	140	190	112	265	12	28	60	31,0	8	6306-ZZ	6206-ZZ	30*47*7	30*47*7	250	180	215	-	14,5
7,5	2	Q3H112M2DE	Aluminium	210	421	1xM25	140	190	112	265	12	28	60	31,0	8	6306-ZZ	6206-ZZ	30*47*7	30*47*7	250	180	215	-	14,5
11	2	Q3H132M2A	Aluminium	260	481	1xM32	140-178	216	132	312	12	38	80	41,0	10	6208-ZZ	6208-ZZ	40*62*10	40*62*10	300	230	265	-	14,5
11	4	Q3H132M4E	Aluminium	260	520	1xM32	140-178	216	132	312	12	38	80	41,0	10	6309-ZZ	6209-ZZ	40*62*10	40*62*10	300	230	265	-	14,5
15	2	Q3H132M2B	Aluminium	260	520	1xM32	140-178	216	132	312	12	38	80	41,0	10	6208-ZZ	6208-ZZ	40*62*10	40*62*10	300	230	265	-	14,5
18,5	4	Q3H160L4C	Aluminium	305	591	1xM32	210-254	254	160	368	14,5	42	110	45,0	12	6309-ZZ	6209-ZZ	45*72*10	45*72*10	350	250	300	-	18,5
30	4	Q3H180L4C	Aluminium	349	696	1xM40	241-279	279	180	437	14,5	48	110	51,5	14	6310-ZZ	6310-ZZ	50*80*10	50*80*10	350	250	300	-	18,5
22	2	Q3H160L2D	Aluminium	305	591	1xM32	210-254	254	160	368	14,5	42	110	45,0	12	6309-ZZ	6209-ZZ	45*72*10	45*72*10	350	250	300	-	18,5
30	2	Q3H180M2B	Aluminium	349	696	1xM40	241-279	279	180	437	14,5	48	110	51,5	14	6310-ZZ	6310-ZZ	50*80*10	50*80*10	350	250	300	-	18,5
45	2	Q3H200L2DE	Aluminium	349	759	1xM50	267-305	318	200	455	18,5	55	110	59,0	16	6312-ZZ	6310-ZZ	60*90*10	60*90*10	400	300	350	-	18,5

(1) Toleranslar 28 mm'ye kadar DIN EN 50347 "j6", 28 mm ve üzeri "k6" / Tolerance DIN EN 50347 "j6" up to 28mm, "k6" above 28mm

(2) DIN 6885'e göre / According to DIN 6885

(3) Tolerans DIN EN 50347 "j6" / Tolerance DIN EN 50347 "j6"

BOYUTLAR - B14a, B34a / DIMENSION - B14a, B34a



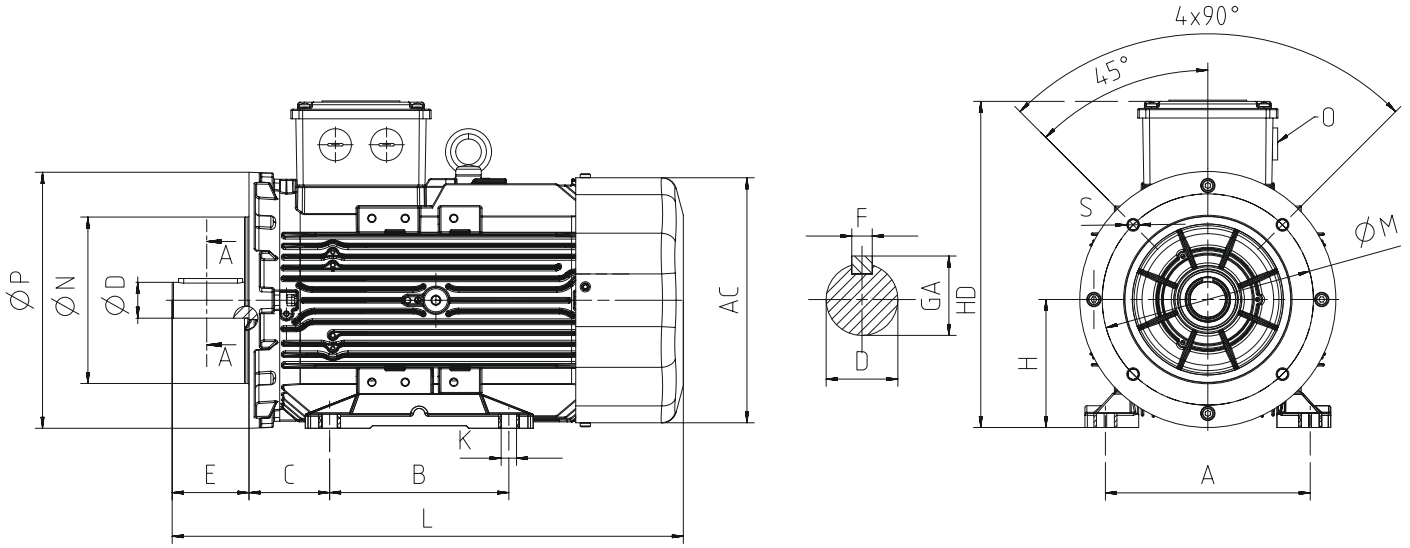
Güç Power (kW)	Kutup sayısı Number of Poles	Motor Tipi Motor Type	Gövde Tipi Housing Type	Ana Boyutlar Main Dimensions			Ayaklı Motorlar Foot Mounted Motors					Mil Shaft			Rulman Bearing		Keçe Seal		Flanş (FC) (B14a) Flange (FC) (B14a)					
				AC	L	O	B	A	H	HD	K	D ⁽¹⁾	E	GA	F ⁽²⁾	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksis Non drive Side	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksis Non drive Side	P	N ⁽³⁾	M	R	S
1,1	4	Q3H80M4DE	Aluminium	158	268	1xM20	100	125	80	216	10	19	40	21,5	6	6204-ZZ	6204-ZZ	20*30*7	20*30*7	120	80	100	-	M6
1,5	2	Q3H80M2DE	Aluminium	158	268	1xM20	100	125	80	216	10	19	40	21,5	6	6204-ZZ	6204-ZZ	20*30*7	20*30*7	120	80	100	-	M6
2,2	4	Q3H90L4DE	Aluminium	172	344	1xM25	100-125	140	90	223	10	24	50	27,0	8	6305-ZZ	6205-ZZ	25*40*7	25*40*7	140	95	115	-	M8
3	2	Q3H90L2E	Aluminium	172	344	1xM25	100-125	140	90	223	10	24	50	27,0	8	6305-ZZ	6205-ZZ	25*40*7	25*40*7	140	95	115	-	M8
4	2	Q3H100L2DE	Aluminium	191	400	1xM25	140	160	100	243	12	28	60	31,0	8	6306-ZZ	6205-ZZ	30*47*7	30*47*7	160	110	130	-	M8
4	4	Q3H100L4E	Aluminium	191	422	1xM25	140	160	100	243	12	28	60	31,0	8	6306-ZZ	6205-ZZ	30*47*7	30*47*7	160	110	130	-	M8
5,5	2	Q3H112M2D	Aluminium	210	396	1xM25	140	190	112	265	12	28	60	31,0	8	6306-ZZ	6206-ZZ	30*47*7	30*47*7	160	110	130	-	M8
5,5	4	Q3H112M4E	Aluminium	210	421	1xM25	140	190	112	265	12	28	60	31,0	8	6306-ZZ	6206-ZZ	30*47*7	30*47*7	160	110	130	-	M8
7,5	2	Q3H112M2DE	Aluminium	210	421	1xM25	140	190	112	265	12	28	60	31,0	8	6306-ZZ	6206-ZZ	30*47*7	30*47*7	160	110	130	-	M8
11	2	Q3H132M2A	Aluminium	260	481	1xM32	140-178	216	132	312	12	38	80	41,0	10	6208-ZZ	6208-ZZ	40*62*10	40*62*10	200	130	165	-	M10
11	4	Q3H132M4E	Aluminium	260	520	1xM32	140-178	216	132	312	12	38	80	41,0	10	6208-ZZ	6208-ZZ	40*62*10	40*62*10	200	130	165	-	M10
15	2	Q3H132M2B	Aluminium	260	520	1xM32	140-178	216	132	312	12	38	80	41,0	10	6208-ZZ	6208-ZZ	40*62*10	40*62*10	200	130	165	-	M10

(1) Toleranslar 28 mm'ye kadar DIN EN 50347 "j6", 28 mm ve üzeri "k6" / Tolerance DIN EN 50347 "j6" up to 28mm, "k6" above 28mm

(2) DIN 6885'e göre / According to DIN 6885

(3) Tolerans DIN EN 50347 "j6" / Tolerance DIN EN 50347 "j6"

BOYUTLAR - B14b, B34b / DIMENSION - B14b, B34b



Güç Power (kW)	Kutup sayısı Number of Poles	Motor Tipi Motor Type	Gövde Tipi Housing Type	Ana Boyutlar Main Dimensions			Ayaklı Motorlar Foot Mounted Motors					Mil Shaft			Rulman Bearing		Keçe Seal		Flanş (FB) (B14b) Flange (FB) (B14b)					
				AC	L	O	B	A	H	HD	K	D ⁽¹⁾	E	GA	F ⁽²⁾	Kasnak Taraflı Drive Side	Kasnak Taraflı Aksı Non drive Side	Kasnak Taraflı Drive Side	Kasnak Taraflı Aksı Non drive Side	P	N ⁽³⁾	M	R	S
1,1	4	Q3H80M4DE	Aluminium	158	268	1xM20	100	125	80	216	10	19	40	21,5	6	6204-ZZ	6204-ZZ	20*30*7	20*30*7	160	110	130	-	M8
1,5	2	Q3H80M2DE	Aluminium	158	268	1xM20	100	125	80	216	10	19	40	21,5	6	6204-ZZ	6204-ZZ	20*30*7	20*30*7	160	110	130	-	M8
2,2	4	Q3H90L4DE	Aluminium	172	344	1xM25	100-125	140	90	223	10	24	50	27,0	8	6305-ZZ	6205-ZZ	25*40*7	25*40*7	160	110	130	-	M8
3	2	Q3H90L2E	Aluminium	172	344	1xM25	100-125	140	90	223	10	24	50	27,0	8	6305-ZZ	6205-ZZ	25*40*7	25*40*7	160	110	130	-	M8
4	2	Q3H100L2DE	Aluminium	191	400	1xM25	140	160	100	243	12	28	60	31,0	8	6306-ZZ	6205-ZZ	30*47*7	30*47*7	200	130	165	-	M10
4	4	Q3H100L4E	Aluminium	191	422	1xM25	140	160	100	243	12	28	60	31,0	8	6306-ZZ	6205-ZZ	30*47*7	30*47*7	200	130	165	-	M10
5,5	2	Q3H112M2D	Aluminium	210	396	1xM25	140	190	112	265	12	28	60	31,0	8	6306-ZZ	6206-ZZ	30*47*7	30*47*7	200	130	165	-	M10
5,5	4	Q3H112M4E	Aluminium	210	421	1xM25	140	190	112	265	12	28	60	31,0	8	6306-ZZ	6206-ZZ	30*47*7	30*47*7	200	130	165	-	M10
7,5	2	Q3H112M2DE	Aluminium	210	421	1xM25	140	190	112	265	12	28	60	31,0	8	6306-ZZ	6206-ZZ	30*47*7	30*47*7	200	130	165	-	M10
11	2	Q3H132M2A	Aluminium	260	481	1xM32	140-178	216	132	312	12	38	80	41,0	10	6208-ZZ	6208-ZZ	40*62*10	40*62*10	250	180	215	-	M12
11	4	Q3H132M4E	Aluminium	260	520	1xM32	140-178	216	132	312	12	38	80	41,0	10	6208-ZZ	6208-ZZ	40*62*10	40*62*10	250	180	215	-	M12
15	2	Q3H132M2B	Aluminium	260	520	1xM32	140-178	216	132	312	12	38	80	41,0	10	6208-ZZ	6208-ZZ	40*62*10	40*62*10	250	180	215	-	M12

(1) Toleranslar 28 mm'ye kadar DIN EN 50347 "j6", 28 mm ve üzeri "k6" / Tolerance DIN EN 50347 "j6" up to 28mm, "k6" above 28mm

(2) DIN 6885'e göre / According to DIN 6885

(3) Tolerans DIN EN 50347 "j6" / Tolerance DIN EN 50347 "j6"

IE2

ELEKTRİKSEL ÖZELLİKLER - 50 Hz / ELECTRICAL CHARACTERISTICS AT 50 Hz

MOTOR TİPİ MOTOR TYPE	GÖVDE TIPI HOUSING TYPE	NOMINAL RATED VALUES						KALKIŞTAKİ DEĞERLER STARTING VALUES				Devrilme Momenti Oranı Breakdown Torque Ratio Mk/ Mn	VERİM* EFFICIENCY*			Cos φ	J	Ağırlık Weight (B3)	Ses Basınç Seviyesi Sound Pressure Level dBA**
		GÜÇ POWER		DEVİR SPEED rpm	AKIM CURRENT A	MOMENT TORQUE Nm	AKIM CURRENT I_A / I_N		MOMENT TORQUE M_A / M_N		η%								
		kW	HP				λ	Δ	λ	Δ	4/4		3/4	2/4					
2 kutup 3000 d/dak / 2 pole 3000 rpm																			
230/400V	Q2E63M2A	Aluminium	0,18	1/4	2810	0,4	0,6	4,7	-	2,1	-	2,3	59,1	63,8	58,5	0,85	0,00022	5	52
	Q2E63M2B	Aluminium	0,25	1/3	2820	0,6	0,8	5,6	-	2,7	-	2,7	64,7	66,2	63,5	0,84	0,00025	6	52
	Q2E71M2A	Aluminium	0,37	1/2	2850	0,8	1,2	8,1	-	4,0	-	4,2	69,5	69,6	67,3	0,80	0,00067	8	54
	Q2E71M2B	Aluminium	0,55	3/4	2880	1,2	1,8	8,2	-	4,1	-	4,3	74,1	74,3	74,2	0,82	0,00086	10	54
	Q2H80M2B	Aluminium	0,75	1,0	2850	1,7	2,5	6,4	-	2,8	-	3,3	77,4	77,6	74,4	0,82	0,00111	9	58
	Q2H80M2C	Aluminium	1,1	1,5	2860	2,5	3,7	6,7	-	2,8	-	3,3	79,6	79,8	77,0	0,81	0,00140	11	58
	Q2H90L2B	Aluminium	1,5	2,0	2875	3,8	5,0	8,0	-	3,9	-	4,4	81,3	80,4	76,6	0,74	0,00176	13	62
	Q2H90L2D	Aluminium	2,2	3,0	2870	4,7	7,3	9,1	-	3,9	-	4,4	83,2	82,8	81,3	0,83	0,00231	16	62
	Q2H100L2C	Aluminium	3,0	4,0	2887	6,3	9,9	7,3	-	2,4	-	2,9	84,6	85,4	84,2	0,83	0,00266	19	66
400/690V	Q2H112M2B	Aluminium	4,0	5,5	2900	8,0	13,2	3,1	9,3	1,1	3,2	4,0	85,8	86,1	84,5	0,85	0,00487	24	68
	Q2H132S2B	Aluminium	5,5	7,5	2915	10,6	18,0	3,5	10,6	1,5	4,4	5,3	87,0	87,1	84,9	0,86	0,00703	34	69
	Q2H132S2C	Aluminium	7,5	10,0	2900	14,6	24,7	3,5	10,6	1,3	3,8	4,6	88,1	88,6	87,6	0,85	0,00772	37	69
	Q2H160M2B	Aluminium	11,0	15,0	2923	21,2	35,9	3,1	9,2	1,1	3,3	4,8	89,4	89,9	88,4	0,83	0,03517	65	70
	Q2H160M2C	Aluminium	15,0	20,0	2915	30,0	49,2	3,2	9,6	1,3	3,9	5,1	90,3	90,6	89,6	0,80	0,04015	67	70
	Q2H160M2D	Aluminium	18,5	25,0	2930	30,8	60,3	2,7	8,0	0,6	1,9	3,6	90,9	91,7	91,1	0,95	0,04613	79	70
	Q2H180M2A	Aluminium	22,0	30,0	2955	40,9	71,2	3,5	10,6	1,2	3,6	5,2	91,3	92,0	90,7	0,84	0,05141	100	77
	Q2H200L2B	Aluminium	30,0	40,0	2955	51,5	97,1	2,8	8,5	0,8	2,4	3,6	92,0	92,5	91,8	0,91	0,08644	175	78
	Q2H200L2C	Aluminium	37,0	50,0	2965	66,2	119,6	3,4	10,1	1,0	3,1	4,5	92,5	92,5	91,2	0,87	0,10277	175	78
	Q2E225M2B	Aluminium	45,0	60,0	2960	82,1	145,2	2,9	8,7	0,8	2,4	2,9	92,9	92,6	91,1	0,85	0,23500	235	81
	Q2E250M2A	Cast Iron	55,0	75,0	2976	92,7	177,0	2,8	8,4	0,8	2,5	3,4	93,2	93,0	91,6	0,91	0,48700	486	82
	Q2EP280M2B	Cast Iron	75,0	100,0	2975	127,9	240,8	3,5	10,6	0,9	2,7	5,1	93,8	93,7	92,5	0,92	0,54000	576	84
	Q2EP280M2C	Cast Iron	90,0	125,0	2980	149,0	288,6	2,4	7,1	1,0	3,0	3,0	94,1	93,9	92,9	0,91	0,64500	585	84
	Q2EP315S2C	Cast Iron	110,0	127	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	Cast Iron	132,0	152	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	Cast Iron	160,0	184	2,975	268	513	2,5	7,5	0,8	2,3	2,4	94,8	94,8	93,6	0,91	1,95300	1170	87
	Q2EP315L2D	Cast Iron	200,0	230	2,975	334	643	2,7	8	0,8	2,4	2,6	95	95	93,8	0,91	2,52700	1200	87
	Q2EP355M2C	Cast Iron	250,0	280	2,985	422	799	2,3	7	0,7	2	2,4	95	95	93,8	0,90	3,92000	1690	87
Q2EP355L2C	Cast Iron	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	Cast Iron	355,0	398,0	2985	599	1.135	2,5	7,5	0,6	1,8	2,1	95,0	95,0	93,8	0,90	4,44000	1953	87	

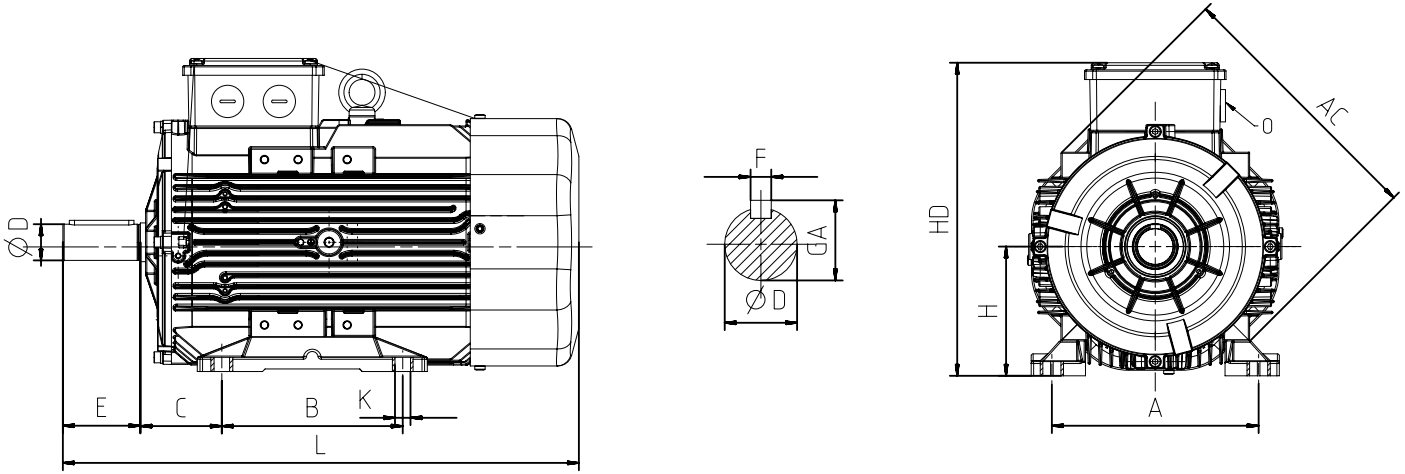
* IEC 60034-2-1'e göre / According to IEC 60034-2-1

** Ses Basınç Seviyeleri motordan 1m uzaklıktan ölçülmüştür. / The sound pressure measurements are taken 1m away from the motor

*** Tolerans +3 dBA / Tolerance +3 dBA

MOTOR TİPİ MOTOR TYPE	GÖVDE TIPI HOUSING TYPE	NOMİNAL RATED VALUES					KALKIŞTAKİ DEĞERLER STARTING VALUES				Devrilme Momenti Oranı Breakdown Torque Ratio Mk/ Mn	VERİM* EFFICIENCY*			Cos φ	J	Ağırlık Weight (B3)	Ses Basınç Seviyesi Sound Pressure Level	
		GÜÇ POWER		DEVİR SPEED	AKIM CURRENT	MOMENT TORQUE	AKIM CURRENT		MOMENT TORQUE			η%							
		kW	HP				I_A / I_N	Δ	M_A / M_N	λ		Δ	4/4	3/4					2/4
4 kutup 1500 d/dak / 4 pole 1500 rpm																			
230/400V	Q2E63M4A	Aluminium	0,12	1/6	1420	0,5	0,9	3,4	-	2,2	-	3,2	64,0	54,1	44,9	0,56	0,00022	5	41
	Q2E63M4B	Aluminium	0,18	1/4	1400	0,6	1,2	3,7	-	2,7	-	3,0	68,0	60,0	51,3	0,66	0,00026	6	41
	Q2E71M4A	Aluminium	0,25	1/3	1415	0,6	1,7	4,6	-	2,6	-	3,8	68,5	68,8	66,9	0,70	0,00095	9	45
	Q2E71M4B	Aluminium	0,37	1/2	1425	1,1	2,5	4,6	-	2,6	-	3,8	72,7	73,1	72,0	0,71	0,00095	9	45
	Q2H80M4B	Aluminium	0,55	3/4	1435	1,3	3,6	6,4	-	2,3	-	3,2	77,1	78,8	75,4	0,76	0,00175	10	49
	Q2H80M4C	Aluminium	0,75	1,0	1440	1,8	5,0	5,5	-	2,1	-	2,6	79,6	80,0	77,7	0,76	0,00216	11	49
	Q2H90L4C	Aluminium	1,10	1,5	1430	2,5	7,4	5,7	-	2,2	-	2,6	81,4	82,4	81,6	0,80	0,00267	13	54
	Q2H90L4C	Aluminium	1,50	2,0	1427	3,3	10,0	6,4	-	2,5	-	3,1	82,8	84,2	83,7	0,79	0,00328	15	54
	Q2H100L4B	Aluminium	2,20	3,0	1437	5,3	14,6	7,6	-	3,6	-	4,2	84,3	84,1	81,5	0,72	0,00521	21	55
	Q2H100L4C	Aluminium	3,00	4,0	1440	7,4	20,0	6,5	-	3,3	-	3,7	85,5	85,3	83,0	0,70	0,00694	25	55
400/690V	Q2H112M4C	Aluminium	4,00	5,5	1440	8,7	26,6	2,7	8,0	1,1	3,2	3,8	86,6	85,7	83,5	0,78	0,01085	31	58
	Q2H132S4A	Aluminium	5,50	7,5	1445	11,5	35,5	2,7	8,0	1,0	3,0	3,8	87,7	88,3	87,3	0,79	0,01414	38	59
	Q2H132M4C	Aluminium	7,50	10,0	1460	15,0	49,1	2,4	7,1	0,5	1,5	0,6	88,7	89,4	88,7	0,82	0,03560	54	62
	Q2H160M4C	Aluminium	11,00	15,0	1468	21,6	71,5	2,6	7,9	0,7	2,1	3,6	89,8	91,1	90,3	0,81	0,05468	79	63
	Q2H160L4B	Aluminium	15,00	20,0	1462	29,8	98,0	2,6	7,8	0,6	1,8	3,4	90,6	91,4	90,9	0,80	0,05940	83	63
	Q2H180M4A	Aluminium	18,50	25,0	1470	36,0	120,2	2,3	6,8	0,7	2,2	2,9	91,2	92,0	91,6	0,81	0,10513	110	67
	Q2H180M4B	Aluminium	22,00	30,0	1462	41,8	143,8	1,8	5,5	0,6	1,9	2,8	91,6	92,9	93,3	0,84	0,11398	118	67
	Q2H200L4C	Aluminium	30,00	40,0	1475	55,3	194,6	2,7	8,2	0,9	2,7	3,5	92,0	91,9	91,4	0,85	0,18660	195	70
	Q2E225M4A	Aluminium	37,00	50,0	1480	68,3	238,8	3,0	9,1	1,2	3,6	4,0	92,7	92,6	91,3	0,84	0,36420	263	71
	Q2E225M4B	Aluminium	45,00	60,0	1480	81,5	290,5	3,1	9,4	1,2	3,7	3,0	93,1	93,0	91,9	0,85	0,43500	280	71
	Q2E250M4A	Cast Iron	55,00	75,0	1486	104,8	353,5	2,4	7,2	0,8	2,3	3,0	93,5	93,7	93,3	0,81	0,36400	506	72
	Q2EP280M4B	Cast Iron	75,00	100,0	1485	134,2	485,7	2,6	7,8	1,0	2,9	3,4	94,0	93,9	93,2	0,86	1,06100	624	73
	Q2EP280M4C	Cast Iron	90,00	125,0	1486	163,5	584,2	2,6	7,8	1,0	2,9	3,3	94,2	94,6	94,2	0,85	1,14800	638	73
	Q2EP315S4C	Cast Iron	110,0	127,0	1480	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	Cast Iron	132,0	152,0	1480	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	Cast Iron	160,0	184,0	1480	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	Cast Iron	200,0	230,0	1480	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	Cast Iron	250,0	280,0	1485	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	Cast Iron	315,0	353,0	1485	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	Cast Iron	355,0	398,0	1485	603	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	
6 kutup 1000 d/dak / 6 pole 1000 rpm																			
230/400V	Q2H90S6B	Aluminium	0,75	1,0	943	1,8	7,7	4,6	-	2,1	-	2,7	75,9	75,1	71,4	0,69	0,00383	16	53
	Q2H90L6C	Aluminium	1,10	1,5	938	3,0	11,2	2,8	-	2,4	-	2,8	78,1	78,0	75,1	0,69	0,00464	18	53
	Q2H100L6C	Aluminium	1,50	2,0	955	4,0	15,2	3,3	-	2,6	-	3,2	79,8	79,3	76,3	0,67	0,00871	26	56
	Q2H112M6C	Aluminium	2,20	3,0	942	5,4	22,4	5,2	-	2,0	-	2,6	81,8	81,5	79,5	0,72	0,00936	31	58
400/690V	Q2H132S6A	Aluminium	3,00	4,0	965	14,1	29,8	1,8	5,4	1,1	3,2	3,3	83,3	82,3	79,4	0,64	0,02950	47	62
	Q2H132M6A	Aluminium	4,00	5,5	970	10,4	39,8	1,9	5,8	0,7	2,2	2,6	84,6	83,5	80,7	0,65	0,03560	53	61
	Q2H132M6B	Aluminium	5,50	7,5	960	12,8	54,7	1,7	5,2	0,9	2,6	2,9	86,1	85,7	83,9	0,72	0,06420	67	60
	Q2H160M6B	Aluminium	7,50	10,0	970	18,9	74,6	2,1	6,2	1,2	3,6	3,8	87,2	84,3	81,7	0,66	0,07540	88	63
	Q2H160L6B	Aluminium	11,00	15,0	970	25,5	109,4	1,7	5,2	1,0	3,0	3,1	88,7	88,5	86,3	0,71	0,07040	99	63
	Q2H180L6A	Aluminium	15,00	20,0	970	31,5	146,9	1,8	5,1	0,6	1,8	2,0	89,7	89,5	87,30,0	0,76	0,16677	115	69
	Q2H200L6B	Aluminium	18,50	25,0	981	41,6	179,8	2,0	5,9	0,7	2,1	2,6	90,4	90,5	89,6	0,70	0,18660	160	70
	Q2H200L6C	Aluminium	22,00	30,0	982	48,8	214,5	1,8	5,6	0,8	2,3	2,4	90,9	91,0	90,3	0,72	0,20643	171	70
Q2E225M6B	Aluminium	30,00	40,0	975	57,0	287,6	1,9	5,7	0,6	1,7	2,5	91,7	91,6	90,7	0,83	0,49334	234	66	

BOYUTLAR - B3 / DIMENSION - B3



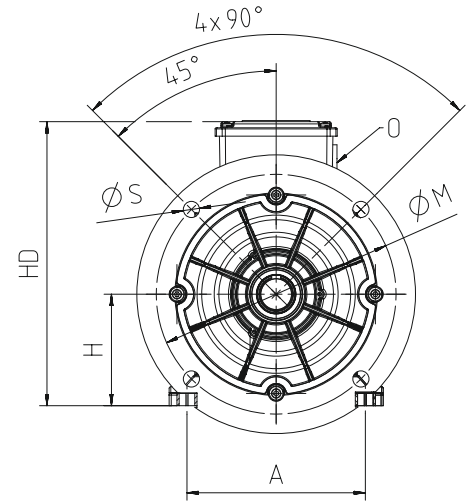
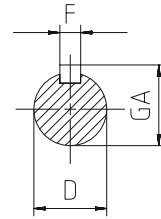
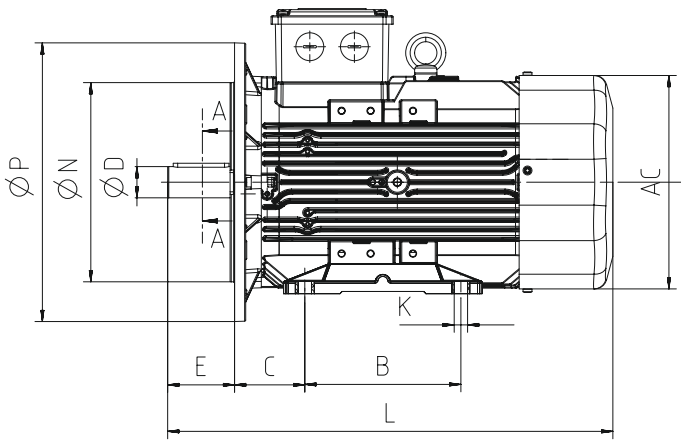
Güç Power (kW)	Kutup sayısı Number of Poles	Motor Tipi Motor Type	Gövde Tipi Housing Type	Ana Boyutlar Main Dimensions			Ayaklı Motorlar Foot Mounted Motors					Mil Shaft				Rulman Bearing		Keçe Seal		
				AC	L	O	B	A	H	HD	K	C	D ⁽¹⁾	E	GA	F ⁽²⁾	Kasnak Taraflı Drive Side	Kasnak Taraflı Aksı Non Drive Side	Kasnak Taraflı Drive Side	Kasnak Taraflı Aksı Non Drive Side
0,12	4	Q2E63M4A	Aluminium	123	220	1xM20	80	100	63	162	7	40	11	23	12,5	4	6201-ZZ	6201-ZZ	12*22*7	12*22*7
0,18	2	Q2E63M2A	Aluminium	123	220	1xM20	80	100	63	162	7	40	11	23	12,5	4	6201-ZZ	6201-ZZ	12*22*7	12*22*7
0,18	4	Q2E63M4B	Aluminium	123	220	1xM20	80	100	63	162	7	40	11	23	12,5	4	6201-ZZ	6201-ZZ	12*22*7	12*22*7
0,25	2	Q2E63M2B	Aluminium	123	220	1xM20	80	100	63	162	7	40	11	23	12,5	4	6201-ZZ	6201-ZZ	12*22*7	12*22*7
0,25	4	Q2E71M4A	Aluminium	138	253	1xM20	90	112	71	190	7	45	14	30	16,0	5	6202-ZZ	6202-ZZ	15*24*5	15*24*5
0,37	2	Q2E71M2A	Aluminium	138	253	1xM20	90	112	71	190	7	45	14	30	16,0	5	6202-ZZ	6202-ZZ	15*24*5	15*24*5
0,37	4	Q2E71M4B	Aluminium	138	253	1xM20	90	112	71	190	7	45	14	30	16,0	5	6202-ZZ	6202-ZZ	15*24*5	15*24*5
0,55	2	Q2E71M2B	Aluminium	138	253	1xM20	90	112	71	190	7	45	14	30	16,0	5	6202-ZZ	6202-ZZ	15*24*5	15*24*5
0,55	4	Q2H80M4B	Aluminium	158	268	1xM20	100	125	80	216	10	50	19	40	21,5	6	6204-ZZ	6204-ZZ	20*30*7	20*30*7
0,75	2	Q2H80M2B	Aluminium	158	268	1xM20	100	125	80	216	10	50	19	40	21,5	6	6204-ZZ	6204-ZZ	20*30*7	20*30*7
0,75	4	Q2H80M4C	Aluminium	158	268	1xM20	100	125	80	216	10	50	19	40	21,5	6	6204-ZZ	6204-ZZ	20*30*7	20*30*7
0,75	6	Q2H90S6B	Aluminium	172	344	1xM25	100-125	140	90	223	10	56	24	50	27,0	8	6305-ZZ	6205-ZZ	25*40*7	25*40*7
1,1	2	Q2H80M2C	Aluminium	158	268	1xM20	100	125	80	216	10	50	19	40	21,5	6	6204-ZZ	6204-ZZ	20*30*7	20*30*7
1,1	4	Q2H90L4C	Aluminium	158	278	1xM25	100-125	140	90	213	10	56	24	50	27,0	8	6305-ZZ	6204-ZZ	25*40*7	20*30*7
1,1	6	Q2H90L6C	Aluminium	172	344	1xM25	100-125	140	90	223	10	56	24	50	27,0	8	6305-ZZ	6205-ZZ	25*40*7	25*40*7
1,5	2	Q2H90L2B	Aluminium	158	278	1xM25	100-125	140	90	213	10	56	24	50	27,0	8	6305-ZZ	6204-ZZ	25*40*7	20*30*7
1,5	4	Q2H90L4C	Aluminium	158	303	1xM25	100-125	140	90	213	10	56	24	50	27,0	8	6305-ZZ	6204-ZZ	25*40*7	20*30*7
1,5	6	Q2H100L6C	Aluminium	191	400	1xM25	140	160	100	243	12	63	28	60	31,0	8	6306-ZZ	6205-ZZ	30*47*7	30*47*7
2,2	2	Q2H90L2D	Aluminium	158	303	1xM25	100-125	140	90	213	10	56	24	50	27,0	8	6305-ZZ	6204-ZZ	25*40*7	20*30*7
2,2	4	Q2H100L4B	Aluminium	172	349	1xM25	140	160	100	233	12	63	28	60	31,0	8	6306-ZZ	6205-ZZ	30*47*7	25*40*7
2,2	6	Q2H112M6C	Aluminium	210	396	1xM25	140	190	112	265	12	70	28	60	31,0	8	6306-ZZ	6206-ZZ	30*47*7	30*47*7
3	2	Q2H100L2C	Aluminium	172	349	1xM25	140	160	100	233	12	63	28	60	31,0	8	6306-ZZ	6205-ZZ	30*47*7	25*40*7
3	4	Q2H100L4C	Aluminium	172	384	1xM25	140	160	100	233	12	63	28	60	31,0	8	6306-ZZ	6205-ZZ	30*47*7	25*40*7
3	6	Q2H132S6A	Aluminium	260	481	1xM32	140-178	216	132	312	12	89	38	80	41,0	10	6208-ZZ	6208-ZZ	40*62*10	40*62*10
4	2	Q2H112M2B	Aluminium	191	399	1xM25	140	190	112	254	12	70	28	60	31,0	8	6306-ZZ	6205-ZZ	30*47*7	25*40*7
4	4	Q2H112M4C	Aluminium	191	399	1xM25	140	190	112	254	12	70	28	60	31,0	8	6306-ZZ	6205-ZZ	30*47*7	25*40*7
4	6	Q2H132M6A	Aluminium	260	481	1xM32	140-178	216	132	312	12	89	38	80	41,0	10	6208-ZZ	6208-ZZ	40*62*10	40*62*10
5,5	2	Q2H132S2B	Aluminium	210	422	1xM25	140-178	216	132	283	12	89	38	80	41,0	10	6208-ZZ	6206-ZZ	40*62*10	30*47*7
5,5	4	Q2H132S4A	Aluminium	210	422	1xM25	140-178	216	132	283	12	89	38	80	41,0	10	6208-ZZ	6206-ZZ	40*62*10	30*47*7
5,5	6	Q2H132M6B	Aluminium	260	481	1xM32	140-178	216	132	312	12	89	38	80	41,0	10	6208-ZZ	6208-ZZ	40*62*10	40*62*10

(1) Toleranslar 28 mm'ye kadar DIN EN 50347 "j6", 28 mm ve üzeri "k6" / Tolerance DIN EN 50347 "j6" up to 28mm, "k6" above 28mm
(2) DIN 6885'e göre / According to DIN 6885

Güç Power (kW)	Kutup sayısı Number of Poles	Motor Tipi Motor Type	Gövde Tipi Housing Type	Ana Boyutlar Main Dimensions			Ayaklı Motorlar Foot Mounted Motors						Mil Shaft				Rulman Bearing		Keçe Seal	
				AC	L	O	B	A	H	HD	K	C	D ⁽¹⁾	E	GA	F ⁽²⁾	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksli Non drive Side	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksli Non drive Side
7,5	2	Q2H132S2C	Aluminium	210	422	1xM25	140-178	216	132	283	12	89	38	80	41,0	10	6208-ZZ	6206-ZZ	40*62*10	30*47*7
7,5	4	Q2H132M4C	Aluminium	260	481	1xM32	140-178	216	132	312	12	89	38	80	41,0	10	6208-ZZ	6208-ZZ	40*62*10	40*62*10
7,5	6	Q2H160M6B	Aluminium	305	591	1xM32	210-254	254	160	368	14,5	108	42	110	45,0	12	6309-ZZ	6209-ZZ	45*72*10	45*72*10
11	2	Q2H160M2B	Aluminium	260	520	1xM32	210-254	254	160	351	14,5	108	42	110	45,0	12	6309-ZZ	6208-ZZ	45*72*10	40*62*10
11	4	Q2H160M4C	Aluminium	260	520	1xM32	210-254	254	160	351	14,5	108	42	110	45,0	12	6309-ZZ	6208-ZZ	45*72*10	40*62*10
11	6	Q2H160L6B	Aluminium	305	591	1xM32	210-254	254	160	368	14,5	108	42	110	45,0	12	6309-ZZ	6209-ZZ	45*72*10	45*72*10
15	2	Q2H160M2C	Aluminium	260	520	1xM32	210-254	254	160	351	14,5	108	42	110	45,0	12	6309-ZZ	6208-ZZ	45*72*10	40*62*10
15	4	Q2H160L4B	Aluminium	260	520	1xM32	210-254	254	160	351	14,5	108	42	110	45,0	12	6309-ZZ	6208-ZZ	45*72*10	40*62*10
15	6	Q2H180L6A	Aluminium	349	696	1xM40	241-279	279	180	437	14,5	121	48	110	51,5	14	6310-ZZ	6310-ZZ	50*80*10	50*80*10
18,5	2	Q2H160M2D	Aluminium	260	520	1xM32	210-254	254	160	351	14,5	108	42	110	45,0	12	6309-ZZ	6208-ZZ	45*72*10	40*62*10
18,5	4	Q2H180M4A	Aluminium	305	596	1xM32	241-279	279	180	398	14,5	121	48	110	51,5	14	6310-ZZ	6209-ZZ	50*80*10	45*72*10
18,5	6	Q2H200L6B	Aluminium	349	706	1xM50	305	318	200	455	18,5	133	55	110	59,0	16	6312-ZZ	6310-ZZ	60*90*10	60*90*10
22	2	Q2H180M2A	Aluminium	305	596	1xM32	241-279	279	180	398	14,5	121	48	110	51,5	14	6310-ZZ	6209-ZZ	50*80*10	45*72*10
22	4	Q2H180M4B	Aluminium	305	596	1xM32	241-279	279	180	398	14,5	121	48	110	51,5	14	6310-ZZ	6209-ZZ	50*80*10	45*72*10
22	6	Q2H200L6C	Aluminium	349	706	1xM50	267-305	318	200	455	18,5	133	55	110	59,0	16	6312-ZZ	6310-ZZ	60*90*10	60*90*10
30	2	Q2H200L2B	Aluminium	349	706	1xM50	267-305	318	200	455	18,5	133	55	110	59,0	16	6312-ZZ	6310-ZZ	60*90*10	60*90*10
30	4	Q2H200L4C	Aluminium	349	706	1xM50	267-305	318	200	455	18,5	133	55	110	59,0	16	6312-ZZ	6310-ZZ	60*90*10	60*90*10
30	6	Q2E225M6B	Aluminium	456	765	1xM50	286-311	356	225	485	18,5	149	60	140	64,0	18	6313-ZZ	6313-ZZ	65*100*13	65*100*13
37	2	Q2H200L2C	Aluminium	349	706	1xM50	305	318	200	455	18,5	133	55	110	59,0	16	6312-ZZ	6310-ZZ	60*90*10	60*90*10
37	4	Q2E225M4A	Aluminium	456	765	1xM50	286-311	356	225	485	18,5	149	60	140	64,0	18	6313-ZZ	6313-ZZ	65*100*13	65*100*13
45	2	Q2E225M2B	Aluminium	456	735	1xM50	286-311	356	225	485	18,5	149	55	110	59,0	16	6313-ZZ	6313-ZZ	65*100*13	65*100*13
45	4	Q2E225M4B	Aluminium	456	765	1xM50	286-311	356	225	485	18,5	149	60	140	64,0	18	6313-ZZ	6313-ZZ	65*100*13	65*100*13
55	2	Q2E250M2A	Aluminium	527	886	2*M50	349	406	250	615	24	149	60	140	64,0	18	6315-ZZ	6313-ZZ	75*112*12	65*100*13
55	2	Q2E250M2A	Cast Iron	489	893	1xM50	349	406	250	616	24	149	60	140	69,0	18	6316-Z	6316-Z	80*100*10	80*100*10
55	4	Q2E250M4A	Cast Iron	489	893	1xM50	349	406	250	616	24	149	65	140	69,0	18	6316-Z	6316-Z	80*100*10	80*100*10
75	2	Q2EP280M2B	Cast Iron	489	1025	1xM50	419	457	280	647	24	190	65	140	69,0	18	6316-Z	6316-Z	80*100*10	80*100*10
75	4	Q2EP280M4B	Cast Iron	489	1025	1xM50	419	457	280	647	24	190	75	140	79,5	20	6316-Z	6316-Z	80*100*10	80*100*10
90	2	Q2EP280M2C	Cast Iron	489	1025	1xM50	419	457	280	647	24	190	65	140	69,0	18	6316-Z	6316-Z	80*100*10	80*100*10
90	4	Q2EP280M4C	Cast Iron	489	1025	1xM50	419	457	280	647	24	190	75	140	79,5	20	6316-Z	6316-Z	80*100*10	80*100*10
110	2	Q2EP315S2C	Cast Iron	630	1180	2*M63	406	508	315	845	28	216	65	140	69	18	6317	6317	85*105*5.5	85*105*5.5
110	4	Q2EP315S4C	Cast Iron	630	1210	2*M63	406	508	315	845	28	216	80	170	85	22	6319	6319	95*115*5.5	95*115*5.5
132	2	Q2EP315M2C	Cast Iron	630	1290	2*M63	457	508	315	845	28	216	65	140	69	18	6317	6317	85*105*5.5	85*105*5.5
132	4	Q2EP315M4C	Cast Iron	630	1320	2*M63	457	508	315	845	28	216	80	170	85	22	6319	6319	95*115*5.5	95*115*5.5
160	2	Q2EP315L2C	Cast Iron	630	1290	2*M63	508	508	315	845	28	216	65	140	69	18	6317	6317	85*105*5.5	85*105*5.5
160	4	Q2EP315L4C	Cast Iron	630	1320	2*M63	508	508	315	845	28	216	80	170	85	22	6319	6319	95*115*5.5	95*115*5.5
200	2	Q2EP315L2D	Cast Iron	630	1290	2*M63	508	508	315	845	28	216	65	140	69	18	6317	6317	85*105*5.5	85*105*5.5
200	4	Q2EP315L4D	Cast Iron	630	1320	2*M63	508	508	315	845	28	216	80	170	85	22	6319	6319	95*115*5.5	95*115*5.5
250	2	Q2EP355M2C	Cast Iron	710	1486	4*M63	560	610	355	956	28	254	75	140	80	20	6317	6317	85*105*5.5	85*105*5.5
250	4	Q2EP355M4C	Cast Iron	710	1517	4*M63	560	610	355	956	28	254	95	170	100	25	6322	6322	110*130*5.5	110*130*5.5
315	2	Q2EP355L2C	Cast Iron	710	1486	4*M63	630	610	355	956	28	254	75	140	80	20	6317	6317	85*105*5.5	85*105*5.5
315	4	Q2EP355L4C	Cast Iron	710	1517	4*M63	630	610	355	956	28	254	95	170	100	25	6322	6322	110*130*5.5	110*130*5.5
355	2	Q2EP355L2D	Cast Iron	710	1486	4*M63	630	610	355	956	28	254	75	140	80	20	6317	6317	85*105*5.5	85*105*5.5
355	4	Q2EP355L4D	Cast Iron	710	1517	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" / Tolerance DIN EN 50347 "j6" up to 28mm, "k6" above 28mm
(2) DIN 6885'e göre / According to DIN 6885

BOYUTLAR - B5, B35 / DIMENSION - B5, B35



Güç Power (kW)	Kutup sayısı Number of Poles	Motor Tipi Motor Type	Gövde Tipi Housing Type	Ana Boyutlar Main Dimensions			Ayıklı Motorlar Foot Mounted Motors					Mil Shaft				Rulman Bearing		Keçe Seal		Flanş (FA) (B5) Flange (FA) (B5)				
				AC	L	O	B	A	H	HD	K	D ⁽¹⁾	E	GA	F ⁽²⁾	Kasnak Taraflı Drive Side	Kasnak Taraflı Aksı Non drive Side	Kasnak Taraflı Drive Side	Kasnak Taraflı Aksı Non drive Side	P	N ⁽³⁾	M	R	S
0,12	4	Q2E63M4A	Aluminium	123	220	1xM20	80	100	63	162	7	11	23	12,5	4	6201-ZZ	6201-ZZ	12*22*7	12*22*7	140	95	115	-	10
0,18	2	Q2E63M2A	Aluminium	123	220	1xM20	80	100	63	162	7	11	23	12,5	4	6201-ZZ	6201-ZZ	12*22*7	12*22*7	140	95	115	-	10
0,18	4	Q2E63M4B	Aluminium	123	220	1xM20	80	100	63	162	7	11	23	12,5	4	6201-ZZ	6201-ZZ	12*22*7	12*22*7	140	95	115	-	10
0,25	2	Q2E63M2B	Aluminium	123	220	1xM20	80	100	63	162	7	11	23	12,5	4	6201-ZZ	6201-ZZ	12*22*7	12*22*7	140	95	115	-	10
0,25	4	Q2E71M4A	Aluminium	138	253	1xM20	90	112	71	190	7	14	30	16,0	5	6202-ZZ	6202-ZZ	15*24*5	15*24*5	160	110	130	-	10
0,37	2	Q2E71M2A	Aluminium	138	253	1xM20	90	112	71	190	7	14	30	16,0	5	6202-ZZ	6202-ZZ	15*24*5	15*24*5	160	110	130	-	10
0,37	4	Q2E71M4B	Aluminium	138	253	1xM20	90	112	71	190	7	14	30	16,0	5	6202-ZZ	6202-ZZ	15*24*5	15*24*5	160	110	130	-	10
0,55	2	Q2E71M2B	Aluminium	138	253	1xM20	90	112	71	190	7	14	30	16,0	5	6202-ZZ	6202-ZZ	15*24*5	15*24*5	160	110	130	-	10
0,55	4	Q2H80M4B	Aluminium	158	268	1xM20	100	125	80	216	10	19	40	21,5	6	6204-ZZ	6204-ZZ	20*30*7	20*30*7	200	130	165	-	12
0,75	2	Q2H80M2B	Aluminium	158	268	1xM20	100	125	80	216	10	19	40	21,5	6	6204-ZZ	6204-ZZ	20*30*7	20*30*7	200	130	165	-	12
0,75	4	Q2H80M4C	Aluminium	158	268	1xM20	100	125	80	216	10	19	40	21,5	6	6204-ZZ	6204-ZZ	20*30*7	20*30*7	200	130	165	-	12
0,75	6	Q2H90S6B	Aluminium	172	344	1xM25	100-125	140	90	223	10	24	50	27,0	8	6305-ZZ	6205-ZZ	25*40*7	25*40*7	200	130	165	-	12
1,1	2	Q2H80M2C	Aluminium	158	268	1xM20	100	125	80	216	10	19	40	21,5	6	6204-ZZ	6204-ZZ	20*30*7	20*30*7	200	130	165	-	12
1,1	4	Q2H90L4C	Aluminium	158	278	1xM25	100-125	140	90	213	10	24	50	27,0	8	6305-ZZ	6204-ZZ	25*40*7	20*30*7	200	130	165	-	12
1,1	6	Q2H90L6B	Aluminium	172	344	1xM25	100-125	140	90	223	10	24	50	27,0	8	6305-ZZ	6205-ZZ	25*40*7	25*40*7	200	130	165	-	12
1,5	2	Q2H90L2B	Aluminium	158	278	1xM25	100-125	140	90	213	10	24	50	27,0	8	6305-ZZ	6204-ZZ	25*40*7	20*30*7	200	130	165	-	12
1,5	4	Q2H90L4C	Aluminium	158	303	1xM25	100-125	140	90	213	10	24	50	27,0	8	6305-ZZ	6204-ZZ	25*40*7	20*30*7	200	130	165	-	12
1,5	6	Q2H100L6C	Aluminium	191	400	1xM25	140	160	100	243	12	28	60	31,0	8	6306-ZZ	6205-ZZ	30*47*7	30*47*7	250	180	215	-	14,5
2,2	2	Q2H90L2D	Aluminium	158	303	1xM25	100-125	140	90	213	10	24	50	27,0	8	6305-ZZ	6204-ZZ	25*40*7	20*30*7	200	130	165	-	12
2,2	4	Q2H100L4B	Aluminium	172	349	1xM25	140	160	100	233	12	28	60	31,0	8	6306-ZZ	6205-ZZ	30*47*7	25*40*7	250	180	215	-	14,5
2,2	6	Q2H112M6C	Aluminium	210	396	1xM25	140	190	112	265	12	28	60	31,0	8	6306-ZZ	6206-ZZ	30*47*7	30*47*7	250	180	215	-	14,5
3	2	Q2H100L2C	Aluminium	172	349	1xM25	140	160	100	233	12	28	60	31,0	8	6306-ZZ	6205-ZZ	30*47*7	25*40*7	250	180	215	-	14,5
3	4	Q2H100L4C	Aluminium	172	384	1xM25	140	160	100	233	12	28	60	31,0	8	6306-ZZ	6205-ZZ	30*47*7	25*40*7	250	180	215	-	14,5
3	6	Q2H132S6A	Aluminium	260	481	1xM32	140-178	216	132	312	12	38	80	41,0	10	6208-ZZ	6208-ZZ	40*62*10	40*62*10	300	230	265	-	14,5
4	2	Q2H112M2B	Aluminium	191	399	1xM25	140	190	112	254	12	28	60	31,0	8	6306-ZZ	6205-ZZ	30*47*7	25*40*7	250	180	215	-	14,5
4	4	Q2H112M4C	Aluminium	191	399	1xM25	140	190	112	254	12	28	60	31,0	8	6306-ZZ	6205-ZZ	30*47*7	25*40*7	250	180	215	-	14,5
4	6	Q2H132M6A	Aluminium	260	481	1xM32	140-178	216	132	312	12	38	80	41,0	10	6208-ZZ	6208-ZZ	40*62*10	40*62*10	300	230	265	-	14,5
5,5	2	Q2H132S2B	Aluminium	210	422	1xM25	140-178	216	132	283	12	38	80	41,0	10	6208-ZZ	6206-ZZ	40*62*10	30*47*7	300	230	265	-	14,5
5,5	4	Q2H132S4A	Aluminium	210	422	1xM25	140-178	216	132	283	12	38	80	41,0	10	6208-ZZ	6206-ZZ	40*62*10	30*47*7	300	230	265	-	14,5
5,5	6	Q2H132M6B	Aluminium	260	481	1xM32	140-178	216	132	312	12	38	80	41,0	10	6208-ZZ	6208-ZZ	40*62*10	40*62*10	300	230	265	-	14,5

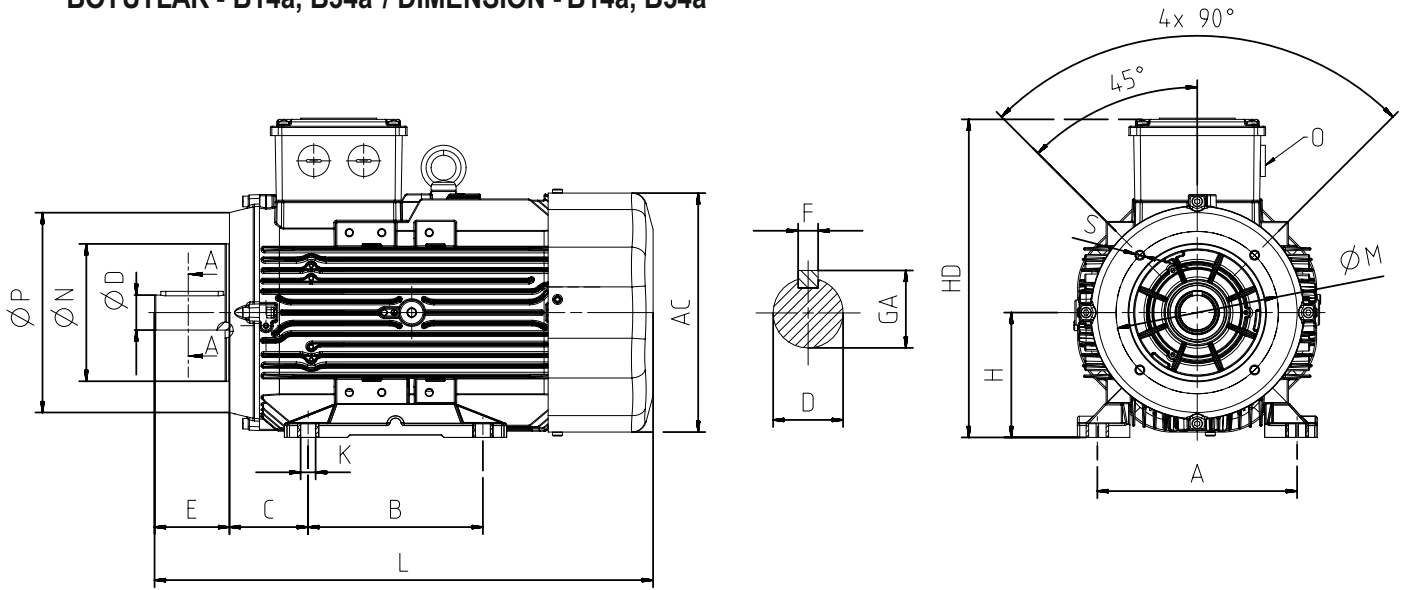
(1) Toleranslar 28 mm'ye kadar DIN EN 50347 "j6", 28 mm ve üzeri "k6" / Tolerance DIN EN 50347 "j6" up to 28mm, "k6" above 28mm

(2) DIN 6885'e göre / According to DIN 6885

(3) Tolerans DIN EN 50347 "j6" / Tolerance DIN EN 50347 "j6"

Güç Power (kW)	Kutup sayısı Number of Poles	Motor Tipi Motor Type	Gövde Tipi Housing Type	Ana Boyutlar Main Dimensions			Ayaklı Motorlar Foot Mounted Motors					Mil Shaft			Rulman Bearing		Keçe Seal		Flanş (FA) (B5) Flange (FA) (B5)					
				AC	L	O	B	A	H	HD	K	D ⁽¹⁾	E	GA	F ⁽²⁾	Kasnak Taraflı Drive Side	Kasnak Taraflı Non drive Side	Kasnak Taraflı Drive Side	Kasnak Taraflı Non drive Side	P	N ⁽³⁾	M	R	S
7,5	2	Q2H132S2C	Aluminium	210	422	1xM25	140-178	216	132	283	12	38	80	41,0	10	6208-ZZ	6206-ZZ	40*62*10	30*47*7	300	230	265	-	14,5
7,5	4	Q2H132M4C	Aluminium	260	481	1xM32	140-178	216	132	312	12	38	80	41,0	10	6208-ZZ	6208-ZZ	40*62*10	40*62*10	300	230	265	-	14,5
7,5	6	Q2H160M6B	Aluminium	305	591	1xM32	210-254	254	160	368	14,5	42	110	45,0	12	6309-ZZ	6209-ZZ	45*72*10	45*72*10	350	250	300	-	18,5
11	2	Q2H160M2B	Aluminium	260	520	1xM32	210-254	254	160	351	14,5	42	110	45,0	12	6309-ZZ	6208-ZZ	45*72*10	40*62*10	350	250	300	-	18,5
11	4	Q2H160M4C	Aluminium	260	520	1xM32	210-254	254	160	351	14,5	42	110	45,0	12	6309-ZZ	6208-ZZ	45*72*10	40*62*10	350	250	300	-	18,5
11	6	Q2H160L6B	Aluminium	305	591	1xM32	210-254	254	160	368	14,5	42	110	45,0	12	6309-ZZ	6209-ZZ	45*72*10	45*72*10	350	250	300	-	18,5
15	2	Q2H160M2C	Aluminium	260	520	1xM32	210-254	254	160	351	14,5	42	110	45,0	12	6309-ZZ	6208-ZZ	45*72*10	40*62*10	350	250	300	-	18,5
15	4	Q2H160L4B	Aluminium	260	520	1xM32	210-254	254	160	351	14,5	42	110	45,0	12	6309-ZZ	6208-ZZ	45*72*10	40*62*10	350	250	300	-	18,5
15	6	Q2H180L6A	Aluminium	349	696	1xM40	241-279	279	180	437	14,5	48	110	51,5	14	6310-ZZ	6310-ZZ	50*80*10	50*80*10	350	250	300	-	18,5
18,5	2	Q2H160M2D	Aluminium	260	520	1xM32	210-254	254	160	351	14,5	42	110	45,0	12	6309-ZZ	6208-ZZ	45*72*10	40*62*10	350	250	300	-	18,5
18,5	4	Q2H180M4A	Aluminium	305	596	1xM32	241-279	279	180	398	14,5	48	110	51,5	14	6310-ZZ	6209-ZZ	50*80*10	45*72*10	350	250	300	-	18,5
18,5	6	Q2H200L6B	Aluminium	349	706	1xM50	305	318	200	455	18,5	55	110	59,0	16	6312-ZZ	6310-ZZ	60*90*10	60*90*10	400	300	350	-	18,5
22	2	Q2H180M2A	Aluminium	305	596	1xM32	241-279	279	180	398	14,5	48	110	51,5	14	6310-ZZ	6209-ZZ	50*80*10	45*72*10	350	250	300	-	18,5
22	4	Q2H180M4B	Aluminium	305	596	1xM32	241-279	279	180	398	14,5	48	110	51,5	14	6310-ZZ	6209-ZZ	50*80*10	45*72*10	350	250	300	-	18,5
22	6	Q2H200L6C	Aluminium	349	706	1xM50	267-305	318	200	455	18,5	55	110	59,0	16	6312-ZZ	6310-ZZ	60*90*10	60*90*10	400	300	350	-	18,5
30	2	Q2H200L2B	Aluminium	349	706	1xM50	267-305	318	200	455	18,5	55	110	59,0	16	6312-ZZ	6310-ZZ	60*90*10	60*90*10	400	300	350	-	18,5
30	4	Q2H200L4C	Aluminium	349	706	1xM50	267-305	318	200	455	18,5	55	110	59,0	16	6312-ZZ	6310-ZZ	60*90*10	60*90*10	400	300	350	-	18,5
30	6	Q2E225M6B	Aluminium	456	765	1xM50	286-311	356	225	485	18,5	60	140	64,0	18	6313-ZZ	6313-ZZ	65*100*13	65*100*13	450	350	400	-	18,5
37	2	Q2H200L2C	Aluminium	349	706	1xM50	267-305	318	200	455	18,5	55	110	59,0	16	6312-ZZ	6310-ZZ	60*90*10	60*90*10	400	300	350	-	18,5
37	4	Q2E225M4A	Aluminium	456	765	1xM50	286-311	356	225	485	18,5	60	140	64,0	18	6313-ZZ	6313-ZZ	65*100*13	65*100*13	450	350	400	-	18,5
45	2	Q2E225M2B	Aluminium	456	735	1xM50	286-311	356	225	485	18,5	55	110	59,0	16	6313-ZZ	6313-ZZ	65*100*13	65*100*13	450	350	400	-	18,5
45	4	Q2E225M4B	Aluminium	456	765	1xM50	286-311	356	225	485	18,5	60	140	64,0	18	6313-ZZ	6313-ZZ	65*100*13	65*100*13	450	350	400	-	18,5
55	2	Q2E250M2A	Aluminium	527	886	2*M50	349	406	250	615	24	60	140	18	64	6315-ZZ	6313-ZZ	75*112*12	65*100*13	550	450	500	-	18,5
55	2	Q2E250M2A	Cast Iron	489	893	1xM50	349	406	250	616	24	60	140	69,0	18	6316-Z	6316-Z	80*100*10	80*100*10	550	450	500	-	18,5
55	4	Q2E250M4A	Cast Iron	489	893	1xM50	349	406	250	616	24	65	140	69,0	18	6316-Z	6316-Z	80*100*10	80*100*10	550	450	500	-	18,5
75	2	Q2EP280M2B	Cast Iron	489	1025	1xM50	419	457	280	647	24	65	140	69,0	18	6316-Z	6316-Z	80*100*10	80*100*10	550	450	500	-	18,5
75	4	Q2EP280M4B	Cast Iron	489	1025	1xM50	419	457	280	647	24	75	140	79,5	20	6316-Z	6316-Z	80*100*10	80*100*10	550	450	500	-	18,5
90	2	Q2EP280M2C	Cast Iron	489	1025	1xM50	419	457	280	647	24	65	140	69,0	18	6316-Z	6316-Z	80*100*10	80*100*10	550	450	500	-	18,5
90	4	Q2EP280M4C	Cast Iron	489	1025	1xM50	419	457	280	647	24	75	140	79,5	20	6316-Z	6316-Z	80*100*10	80*100*10	550	450	500	-	18,5
110	2	Q2EP315S2C	Cast Iron	630	1180	2*M63	406	508	315	845	28	216	65	140	69	6317	6317	85*105*5.5	85*105*5.5	660	550	600	-	24
110	4	Q2EP315S4C	Cast Iron	630	1210	2*M63	406	508	315	845	28	216	80	170	85	6319	6319	95*115*5.5	95*115*5.5	660	550	600	-	24
132	2	Q2EP315M2C	Cast Iron	630	1290	2*M63	457	508	315	845	28	216	65	140	69	6317	6317	85*105*5.5	85*105*5.5	660	550	600	-	24
132	4	Q2EP315M4C	Cast Iron	630	1320	2*M63	457	508	315	845	28	216	80	170	85	6319	6319	95*115*5.5	95*115*5.5	660	550	600	-	24
160	2	Q2EP315L2C	Cast Iron	630	1290	2*M63	508	508	315	845	28	216	65	140	69	6317	6317	85*105*5.5	85*105*5.5	660	550	600	-	24
160	4	Q2EP315L4C	Cast Iron	630	1320	2*M63	508	508	315	845	28	216	80	170	85	6319	6319	95*115*5.5	95*115*5.5	660	550	600	-	24
200	2	Q2EP315L2D	Cast Iron	630	1290	2*M63	508	508	315	845	28	216	65	140	69	6317	6317	85*105*5.5	85*105*5.5	660	550	600	-	24
200	4	Q2EP315L4D	Cast Iron	630	1320	2*M63	508	508	315	845	28	216	80	170	85	6319	6319	95*115*5.5	95*115*5.5	660	550	600	-	24
250	2	Q2EP355M2C	Cast Iron	710	1486	4*M63	560	610	355	956	28	254	75	140	80	6317	6317	85*105*5.5	85*105*5.5	800	680	740	-	24
250	4	Q2EP355M4C	Cast Iron	710	1517	4*M63	560	610	355	956	28	254	95	170	100	6322	6322	110*130*5.5	110*130*5.5	800	680	740	-	24
315	2	Q2EP355L2C	Cast Iron	710	1486	4*M63	630	610	355	956	28	254	75	140	80	6317	6317	85*105*5.5	85*105*5.5	800	680	740	-	24
315	4	Q2EP355L4C	Cast Iron	710	1517	4*M63	630	610	355	956	28	254	95	170	100	6322	6322	110*130*5.5	110*130*5.5	800	680	740	-	24
355	2	Q2EP355L2D	Cast Iron	710	1486	4*M63	630	610	355	956	28	254	75	140	80	6317	6317	85*105*5.5	85*105*5.5	800	680	740	-	24
355	4	Q2EP355L4D	Cast Iron	710	1517	4*M63	630	610	355	956	28	254	95	170	100	6322	6322	110*130*5.5	110*130*5.5	800	680	740	-	24

BOYUTLAR - B14a, B34a / DIMENSION - B14a, B34a



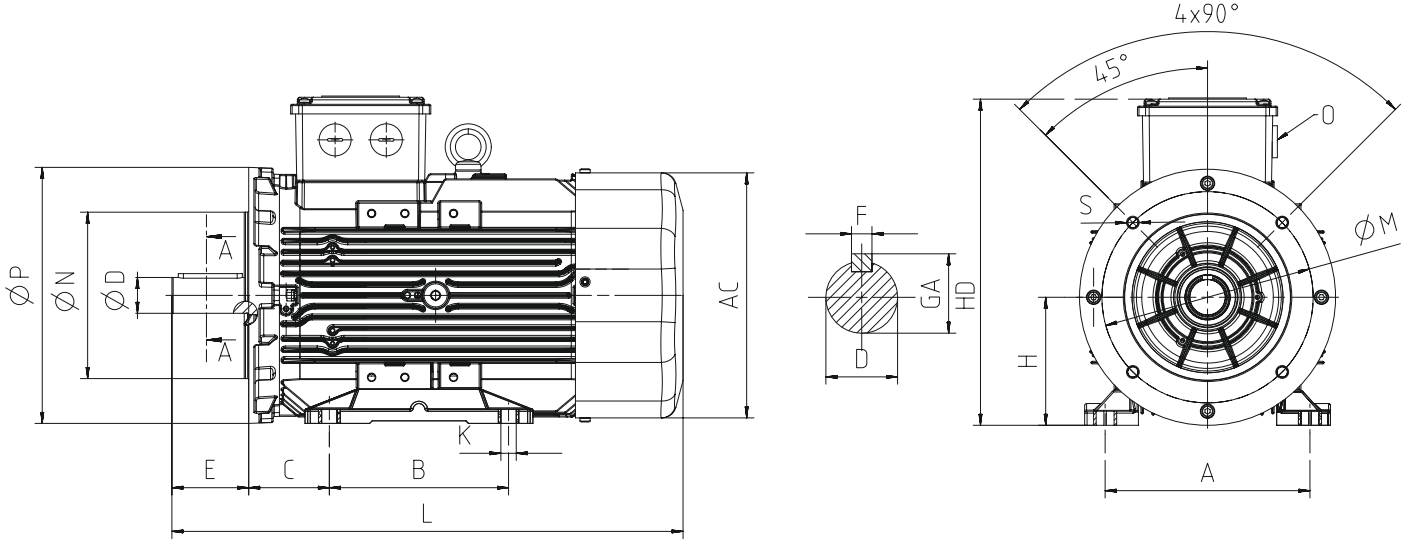
Güç Power (kW)	Kutup sayısı Number of Poles	Motor Tipi Motor Type	Gövde Tipi Housing Type	Ana Boyutlar Main Dimensions			Ayaklı Motorlar Foot Mounted Motors					Mil Shaft		Rulman Bearing		Keçe Seal		Flanş (FC) (B14a) Flange (FC) (B14a)						
				AC	L	O	B	A	H	HD	K	D ⁽¹⁾	E	GA	F ⁽²⁾	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksı Non drive Side	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksı Non drive Side	P	N ⁽³⁾	M	R	S
0,12	4	Q2E63M4A	Aluminium	123	220	1xM20	80	100	63	162	7	11	23	12,5	4	6201-ZZ	6201-ZZ	12*22*7	12*22*7	90	60	75	-	M5
0,18	2	Q2E63M2A	Aluminium	123	220	1xM20	80	100	63	162	7	11	23	12,5	4	6201-ZZ	6201-ZZ	12*22*7	12*22*7	90	60	75	-	M5
0,18	4	Q2E63M4B	Aluminium	123	220	1xM20	80	100	63	162	7	11	23	12,5	4	6201-ZZ	6201-ZZ	12*22*7	12*22*7	90	60	75	-	M5
0,25	2	Q2E63M2B	Aluminium	123	220	1xM20	80	100	63	162	7	11	23	12,5	4	6201-ZZ	6201-ZZ	12*22*7	12*22*7	90	60	75	-	M5
0,25	4	Q2E71M4A	Aluminium	138	253	1xM20	90	112	71	190	7	14	30	16,0	5	6202-ZZ	6202-ZZ	15*24*5	15*24*5	105	70	85	-	M6
0,37	2	Q2E71M2A	Aluminium	138	253	1xM20	90	112	71	190	7	14	30	16,0	5	6202-ZZ	6202-ZZ	15*24*5	15*24*5	105	70	85	-	M6
0,37	4	Q2E71M4B	Aluminium	138	253	1xM20	90	112	71	190	7	14	30	16,0	5	6202-ZZ	6202-ZZ	15*24*5	15*24*5	105	70	85	-	M6
0,55	2	Q2E71M2B	Aluminium	138	253	1xM20	90	112	71	190	7	14	30	16,0	5	6202-ZZ	6202-ZZ	15*24*5	15*24*5	105	70	85	-	M6
0,55	4	Q2H80M4B	Aluminium	158	268	1xM20	100	125	80	216	10	19	40	21,5	6	6204-ZZ	6204-ZZ	20*30*7	20*30*7	120	80	100	-	M6
0,75	2	Q2H80M2B	Aluminium	158	268	1xM20	100	125	80	216	10	19	40	21,5	6	6204-ZZ	6204-ZZ	20*30*7	20*30*7	120	80	100	-	M6
0,75	4	Q2H80M4C	Aluminium	158	268	1xM20	100	125	80	216	10	19	40	21,5	6	6204-ZZ	6204-ZZ	20*30*7	20*30*7	120	80	100	-	M6
0,75	6	Q2H90S6B	Aluminium	172	344	1xM25	100-125	140	90	223	10	24	50	27,0	8	6305-ZZ	6205-ZZ	25*40*7	25*40*7	140	95	115	-	M8
1,1	2	Q2H80M2C	Aluminium	158	268	1xM20	100	125	80	216	10	19	40	21,5	6	6204-ZZ	6204-ZZ	20*30*7	20*30*7	120	80	100	-	M6
1,1	4	Q2H90L4C	Aluminium	158	278	1xM25	100-125	140	90	213	10	24	50	27,0	8	6305-ZZ	6204-ZZ	25*40*7	20*30*7	140	95	115	-	M8
1,1	6	Q2H90L6C	Aluminium	172	344	1xM25	100-125	140	90	223	10	24	50	27,0	8	6305-ZZ	6205-ZZ	25*40*7	25*40*7	140	95	115	-	M8
1,5	2	Q2H90L2C	Aluminium	158	278	1xM25	100-125	140	90	213	10	24	50	27,0	8	6305-ZZ	6204-ZZ	25*40*7	20*30*7	140	95	115	-	M8
1,5	4	Q2H90L4C	Aluminium	158	303	1xM25	100-125	140	90	213	10	24	50	27,0	8	6305-ZZ	6204-ZZ	25*40*7	20*30*7	140	95	115	-	M8
1,5	6	Q2H100L6C	Aluminium	191	400	1xM25	140	160	100	243	12	28	60	31,0	8	6306-ZZ	6205-ZZ	30*47*7	30*47*7	160	110	130	-	M8
2,2	2	Q2H90L2D	Aluminium	158	303	1xM25	100-125	140	90	213	10	24	50	27,0	8	6305-ZZ	6204-ZZ	25*40*7	20*30*7	140	95	115	-	M8
2,2	4	Q2H100L4B	Aluminium	172	349	1xM25	140	160	100	233	12	28	60	31,0	8	6306-ZZ	6205-ZZ	30*47*7	25*40*7	160	110	130	-	M8
2,2	6	Q2H112M6C	Aluminium	210	396	1xM25	140	190	112	265	12	28	60	31,0	8	6306-ZZ	6206-ZZ	30*47*7	30*47*7	160	110	130	-	M8
3	2	Q2H100L2C	Aluminium	172	349	1xM25	140	160	100	233	12	28	60	31,0	8	6306-ZZ	6205-ZZ	30*47*7	25*40*7	160	110	130	-	M8
3	4	Q2H100L4C	Aluminium	172	384	1xM25	140	160	100	233	12	28	60	31,0	8	6306-ZZ	6205-ZZ	30*47*7	25*40*7	160	110	130	-	M8
3	6	Q2H132S6A	Aluminium	260	481	1xM32	140-178	216	132	312	12	38	80	41,0	10	6208-ZZ	6208-ZZ	40*62*10	40*62*10	200	130	165	-	M10
4	2	Q2H112M2B	Aluminium	191	399	1xM25	140	190	112	254	12	28	60	31,0	8	6306-ZZ	6205-ZZ	30*47*7	25*40*7	160	110	130	-	M8
4	4	Q2H112M4C	Aluminium	191	399	1xM25	140	190	112	254	12	28	60	31,0	8	6306-ZZ	6205-ZZ	30*47*7	25*40*7	160	110	130	-	M8
4	6	Q2H132M6A	Aluminium	260	481	1xM32	140-178	216	132	312	12	38	80	41,0	10	6208-ZZ	6208-ZZ	40*62*10	40*62*10	200	130	165	-	M10
5,5	2	Q2H132S2B	Aluminium	210	422	1xM25	140-178	216	132	283	12	38	80	41,0	10	6208-ZZ	6206-ZZ	40*62*10	30*47*7	200	130	165	-	M10
5,5	4	Q2H132S4A	Aluminium	210	422	1xM25	140-178	216	132	283	12	38	80	41,0	10	6208-ZZ	6206-ZZ	40*62*10	30*47*7	200	130	165	-	M10
5,5	6	Q2H132M6B	Aluminium	260	481	1xM32	140-178	216	132	312	12	38	80	41,0	10	6208-ZZ	6208-ZZ	40*62*10	40*62*10	200	130	165	-	M10
7,5	2	Q2H132S2C	Aluminium	210	422	1xM25	140-178	216	132	283	12	38	80	41,0	10	6208-ZZ	6206-ZZ	40*62*10	30*47*7	200	130	165	-	M10
7,5	4	Q2H132M4C	Aluminium	260	481	1xM32	140-178	216	132	312	12	38	80	41,0	10	6208-ZZ	6208-ZZ	40*62*10	40*62*10	200	130	165	-	M10

(1) Toleranslar 28 mm'ye kadar DIN EN 50347 "j6", 28 mm ve üzeri "k6" / Tolerance DIN EN 50347 "j6" up to 28mm, "k6" above 28mm

(2) DIN 6885'e göre / According to DIN 6885

(3) Tolerans DIN EN 50347 "j6" / Tolerance DIN EN 50347 "j6"

BOYUTLAR - B14b, B34b / DIMENSION - B14b, B34b



Güç Power (kW)	Kutup sayısı Number of Poles	Motor Tipi Motor Type	Gövde Tipi Housing Type	Ana Boyutlar Main Dimensions			Ayaklı Motorlar Foot Mounted Motors					Mil Shaft		Rulman Bearing		Keçe Seal		Flanş (FB) (B14b) Flange (FB) (B14b)						
				AC	L	O	B	A	H	HD	K	D ⁽¹⁾	E	GA	F ⁽²⁾	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksı Non drive Side	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksı Non drive Side	P	N ⁽³⁾	M	R	S
0,12	4	Q2E63M4A	Aluminium	123	220	1xM20	80	100	63	162	7	11	23	12,5	4	6201-ZZ	6201-ZZ	12*22*7	12*22*7	120	80	100	-	M6
0,18	2	Q2E63M2A	Aluminium	123	220	1xM20	80	100	63	162	7	11	23	12,5	4	6201-ZZ	6201-ZZ	12*22*7	12*22*7	120	80	100	-	M6
0,18	4	Q2E63M4B	Aluminium	123	220	1xM20	80	100	63	162	7	11	23	12,5	4	6201-ZZ	6201-ZZ	12*22*7	12*22*7	120	80	100	-	M6
0,25	2	Q2E63M2B	Aluminium	123	220	1xM20	80	100	63	162	7	11	23	12,5	4	6201-ZZ	6201-ZZ	12*22*7	12*22*7	120	80	100	-	M6
0,25	4	Q2E71M4A	Aluminium	138	253	1xM20	90	112	71	190	7	14	30	16,0	5	6202-ZZ	6202-ZZ	15*24*5	15*24*5	140	95	115	-	M8
0,37	2	Q2E71M2A	Aluminium	138	253	1xM20	90	112	71	190	7	14	30	16,0	5	6202-ZZ	6202-ZZ	15*24*5	15*24*5	140	95	115	-	M8
0,37	4	Q2E71M4B	Aluminium	138	253	1xM20	90	112	71	190	7	14	30	16,0	5	6202-ZZ	6202-ZZ	15*24*5	15*24*5	140	95	115	-	M8
0,55	2	Q2E71M2B	Aluminium	138	253	1xM20	90	112	71	190	7	14	30	16,0	5	6202-ZZ	6202-ZZ	15*24*5	15*24*5	140	95	115	-	M8
0,55	4	Q2H80M4B	Aluminium	158	268	1xM20	100	125	80	216	10	19	40	21,5	6	6204-ZZ	6204-ZZ	20*30*7	20*30*7	160	110	130	-	M8
0,75	2	Q2H80M2B	Aluminium	158	268	1xM20	100	125	80	216	10	19	40	21,5	6	6204-ZZ	6204-ZZ	20*30*7	20*30*7	160	110	130	-	M8
0,75	4	Q2H80M4C	Aluminium	158	268	1xM20	100	125	80	216	10	19	40	21,5	6	6204-ZZ	6204-ZZ	20*30*7	20*30*7	160	110	130	-	M8
0,75	6	Q2H90S6B	Aluminium	172	344	1xM25	100-125	140	90	223	10	24	50	27,0	8	6305-ZZ	6205-ZZ	25*40*7	25*40*7	160	110	130	-	M8
1,1	2	Q2H80M2C	Aluminium	158	268	1xM20	100	125	80	216	10	19	40	21,5	6	6204-ZZ	6204-ZZ	20*30*7	20*30*7	160	110	130	-	M8
1,1	4	Q2H90L4C	Aluminium	158	278	1xM25	100-125	140	90	213	10	24	50	27,0	8	6305-ZZ	6204-ZZ	25*40*7	20*30*7	160	110	130	-	M8
1,1	6	Q2H90L6C	Aluminium	172	344	1xM25	100-125	140	90	223	10	24	50	27,0	8	6305-ZZ	6205-ZZ	25*40*7	25*40*7	160	110	130	-	M8
1,5	2	Q2H90L2B	Aluminium	158	278	1xM25	100-125	140	90	213	10	24	50	27,0	8	6305-ZZ	6204-ZZ	25*40*7	20*30*7	160	110	130	-	M8
1,5	4	Q2H90L4C	Aluminium	158	303	1xM25	100-125	140	90	213	10	24	50	27,0	8	6305-ZZ	6204-ZZ	25*40*7	20*30*7	160	110	130	-	M8
1,5	6	Q2H100L6C	Aluminium	191	400	1xM25	140	160	100	243	12	28	60	31,0	8	6306-ZZ	6205-ZZ	30*47*7	30*47*7	200	130	165	-	M10
2,2	2	Q2H90L2D	Aluminium	158	303	1xM25	100-125	140	90	213	10	24	50	27,0	8	6305-ZZ	6204-ZZ	25*40*7	20*30*7	160	110	130	-	M8
2,2	4	Q2H100L4B	Aluminium	172	349	1xM25	140	160	100	233	12	28	60	31,0	8	6306-ZZ	6205-ZZ	30*47*7	25*40*7	200	130	165	-	M10
2,2	6	Q2H112M6C	Aluminium	210	396	1xM25	140	190	112	265	12	28	60	31,0	8	6306-ZZ	6206-ZZ	30*47*7	30*47*7	200	130	165	-	M10
3	2	Q2H100L2C	Aluminium	172	349	1xM25	140	160	100	233	12	28	60	31,0	8	6306-ZZ	6205-ZZ	30*47*7	25*40*7	200	130	165	-	M10
3	4	Q2H100L4C	Aluminium	172	384	1xM25	140	160	100	233	12	28	60	31,0	8	6306-ZZ	6205-ZZ	30*47*7	25*40*7	200	130	165	-	M10
3	6	Q2H132S6A	Aluminium	260	481	1xM32	140-178	216	132	312	12	38	80	41,0	10	6208-ZZ	6208-ZZ	40*62*10	40*62*10	250	180	215	-	M12
4	2	Q2H112M2B	Aluminium	191	399	1xM25	140	190	112	254	12	28	60	31,0	8	6306-ZZ	6205-ZZ	30*47*7	25*40*7	200	130	165	-	M10
4	4	Q2H112M4C	Aluminium	191	399	1xM25	140	190	112	254	12	28	60	31,0	8	6306-ZZ	6205-ZZ	30*47*7	25*40*7	200	130	165	-	M10
4	6	Q2H132M6A	Aluminium	260	481	1xM32	140-178	216	132	312	12	38	80	41,0	10	6208-ZZ	6208-ZZ	40*62*10	40*62*10	250	180	215	-	M12
5,5	2	Q2H132S2B	Aluminium	210	422	1xM25	140-178	216	132	283	12	38	80	41,0	10	6208-ZZ	6206-ZZ	40*62*10	30*47*7	250	180	215	-	M12
5,5	4	Q2H132S4A	Aluminium	210	422	1xM25	140-178	216	132	283	12	38	80	41,0	10	6208-ZZ	6206-ZZ	40*62*10	30*47*7	250	180	215	-	M12
5,5	6	Q2H132M6B	Aluminium	260	481	1xM32	140-178	216	132	312	12	38	80	41,0	10	6208-ZZ	6208-ZZ	40*62*10	40*62*10	250	180	215	-	M12
7,5	2	Q2H132S2C	Aluminium	210	422	1xM25	140-178	216	132	283	12	38	80	41,0	10	6208-ZZ	6206-ZZ	40*62*10	30*47*7	250	180	215	-	M12
7,5	4	Q2H132M4C	Aluminium	260	481	1xM32	140-178	216	132	312	12	38	80	41,0	10	6208-ZZ	6208-ZZ	40*62*10	40*62*10	250	180	215	-	M12

(1) Toleranslar 28 mm'ye kadar DIN EN 50347 "j6", 28 mm ve üzeri "k6" / Tolerance DIN EN 50347 "j6" up to 28mm, "k6" above 28mm

(2) DIN 6885'e göre / According to DIN 6885

(3) Tolerans DIN EN 50347 "j6" / Tolerance DIN EN 50347 "j6"

ELEKTRİKSEL ÖZELLİKLER - 50 Hz / ELECTRICAL CHARACTERISTICS AT 50 Hz

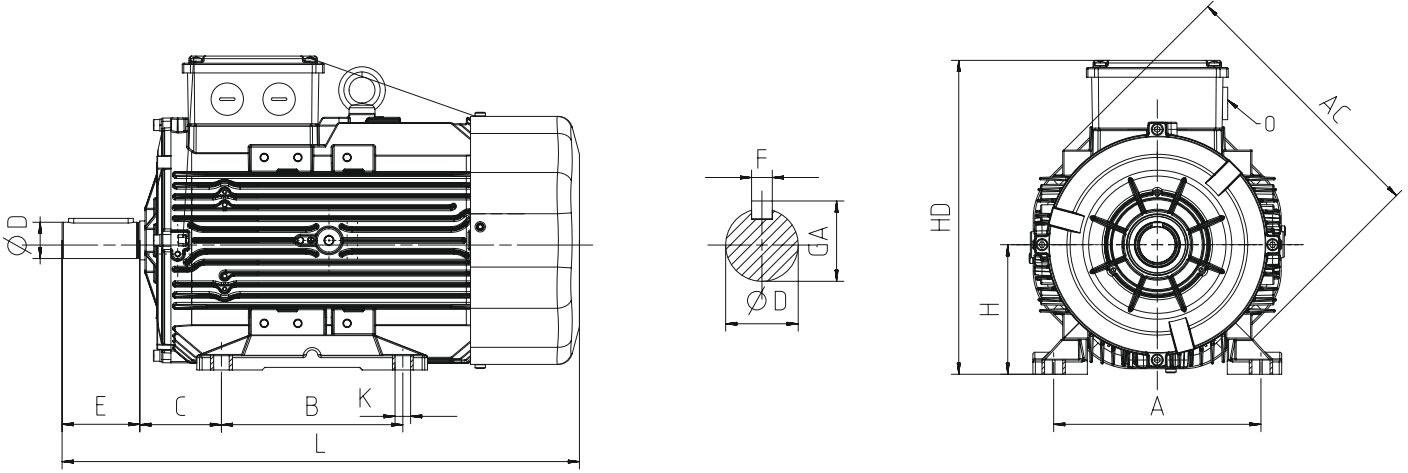
MOTOR TİPİ MOTOR TYPE	GÖVDE TIPI HOUSING TYPE	NOMINAL RATED VALUES						KALKIŞTAKİ DEĞERLER STARTING VALUES				Devrilme Momenti Oranı Breakdown Torque Ratio Mk/ Mn	VERİM* EFFICIENCY*			Cos φ	J kgm ²	Ağırlık Weight (B3) kg	Ses Basınç Seviyesi Sound Pressure Level dBA **
		GÜÇ POWER		DEVİR SPEED rpm	AKIM CURRENT A	MOMENT TORQUE Nm	AKIM CURRENT I _A / I _N		MOMENT TORQUE M _A / M _N		η%								
		kW	HP				λ	Δ	λ	Δ	4/4		3/4	2/4					
2 kutup 3000 d/dak / 2 pole 3000 rpm																			
230/400V	Q2H80M2D	Aluminium	1,5	2,0	2875	3,8	5,0	8,0	-	3,9	-	4,4	81,3	80,4	76,6	0,74	0,00169	12	58
	Q2H80M2DE	Aluminium	2,2	3,0	2870	4,7	7,3	9,1	-	3,9	-	4,4	83,2	82,8	81,3	0,83	0,00224	16	59
	Q2H90L2D	Aluminium	3,0	4,0	2887	6,3	9,9	7,3	-	2,4	-	2,9	84,6	85,4	84,2	0,83	0,00283	19	61
400/690V	Q2HS100L2C	Aluminium	4,0	5,5	2913	8,2	13,2	3,6	10,8	1,4	4,2	4,8	85,8	87,0	86,1	0,82	0,00381	24	66
	Q2HS112M2C	Aluminium	5,5	7,5	2910	10,6	18,1	3,6	10,9	1,3	3,8	4,5	87,0	87,5	86,2	0,86	0,00637	29	68
	Q2HS112M2D	Aluminium	7,5	10,0	2895	14,1	24,8	3,4	10,3	1,3	3,9	4,6	88,1	89,0	88,7	0,88	0,00751	30	68
	Q2H132M2A	Aluminium	11,0	15,0	2923	21,3	35,9	3,1	9,2	1,1	3,3	4,8	89,4	89,9	88,4	0,83	0,03489	57	69
	Q2H132M2B	Aluminium	15,0	20,0	2915	30,0	49,2	3,2	9,6	1,3	3,9	5,1	90,3	90,6	89,6	0,80	0,03490	65	69
	Q2H132M2C	Aluminium	18,5	25,0	2930	30,8	60,3	2,7	8,0	0,6	1,9	3,6	90,9	91,7	91,1	0,95	0,04685	77	70
	Q2H160L2C	Aluminium	22,0	30,0	2955	40,9	71,2	3,5	10,4	1,2	3,6	5,2	91,3	92,0	90,7	0,84	0,04808	96	71
	Q2H180M2B	Aluminium	30,0	37,0	2955	51,5	97,1	2,8	8,5	0,8	2,4	3,6	92,0	92,5	91,8	0,91	0,08643	128	77
	Q2H180M2C	Aluminium	37,0	50,0	2965	66,2	119,6	3,4	10,1	1,0	3,1	4,5	92,5	92,5	91,2	0,87	0,10277	145	77
	Q2H200L2D	Aluminium	45,0	60,0	2960	76,0	145,1	3,3	9,8	0,9	2,8	5,3	92,9	93,4	92,7	0,92	0,11910	166	78
	Q2E225M2C	Aluminium	55,0	75,0	2970	96,6	176,9	3,5	10,6	1,0	3,0	7,1	93,2	93,7	92,4	0,88	0,29500	244	80
	Q2EP250M2C	Cast Iron	75,0	100,0	2975	127,9	240,8	3,5	10,6	0,9	2,7	6,8	93,8	93,7	92,5	0,92	0,54000	565	81
Q2EP280M2D	Cast Iron	110,0	150,0	2980	192,0	352,4	2,6	7,7	1,0	2,9	3,4	94,1	93,9	92,9	0,88	0,70200	640	82	
4 kutup 1500 d/dak / 4 pole 1500 rpm																			
230/400V	Q2H80M4D	Aluminium	1,1	1,5	1430	2,5	7,4	5,7	-	2,2	-	2,6	81,4	82,4	81,6	0,80	0,00260	12	48
	Q2H80M4DE	Aluminium	1,5	2,0	1427	3,3	10,0	6,4	-	2,5	-	3,1	82,8	84,2	83,7	0,79	0,00306	14	48
	Q2H90L4D	Aluminium	2,2	3,0	1437	5,3	14,6	7,6	-	3,6	-	4,2	84,3	84,1	81,5	0,72	0,00526	18	52
	Q2H90L4DE	Aluminium	3,0	4,0	1440	7,4	20,0	6,5	-	3,3	-	3,7	85,5	85,3	83,0	0,70	0,00690	25	53
	Q2H100L4D	Aluminium	4,0	5,5	1440	8,7	26,6	2,7	8,0	1,1	3,2	3,8	86,6	85,7	83,5	0,78	0,01058	31	57
	Q2H112M4D	Aluminium	5,5	7,5	1445	11,6	35,5	2,7	8,0	1,0	3,0	3,8	87,7	88,3	87,3	0,79	0,01382	38	58
400/690V	Q2H132M4D	Aluminium	11,0	15,0	1468	21,6	71,5	2,6	7,9	0,7	2,1	3,6	89,8	91,1	90,3	0,81	0,05440	76	61
	Q2H132M4E	Aluminium	15,0	20,0	1462	29,8	98,0	2,6	7,8	0,6	1,8	3,4	90,6	91,4	90,9	0,80	0,05940	81	63
	Q2H160L4B	Aluminium	18,5	25,0	1470	36,0	120,2	2,3	6,8	0,7	2,2	2,9	91,2	92,0	91,6	0,81	0,09005	101	57
	Q2H160L4C	Aluminium	22,0	30,0	1462	41,8	143,8	1,8	5,5	0,6	1,9	2,8	91,6	92,9	93,3	0,84	0,11068	115	58
	Q2H180L4C	Aluminium	30,0	40,0	1475	55,3	194,6	2,7	8,2	0,9	2,7	3,5	92,0	91,9	91,4	0,85	0,14694	143	70
	Q2H200L4D	Aluminium	37,0	50,0	1476	72,5	240,8	2,8	8,3	0,9	2,8	3,7	92,7	93,2	92,8	0,79	0,26440	177	71
Q2EP250M4E	Cast Iron	75,0	100,0	1485	134,2	485,7	2,6	7,8	1,0	2,9	3,4	94,0	93,9	93,2	0,86	1,06110	610	72	
Q2EP280M4E	Cast Iron	110,0	150,0	1485	200,3	714,0	2,6	7,9	1,0	2,9	3,4	94,5	94,3	93,1	0,84	1,25200	688	73	

* IEC 60034-2-1'e göre / According to IEC 60034-2-1

** Ses Basınç Seviyeleri motordan 1m uzaklıktan ölçülmüştür. / The sound pressure measurements are taken 1m away from the motor

*** Tolerans +3 dBA / Tolerance +3 dBA

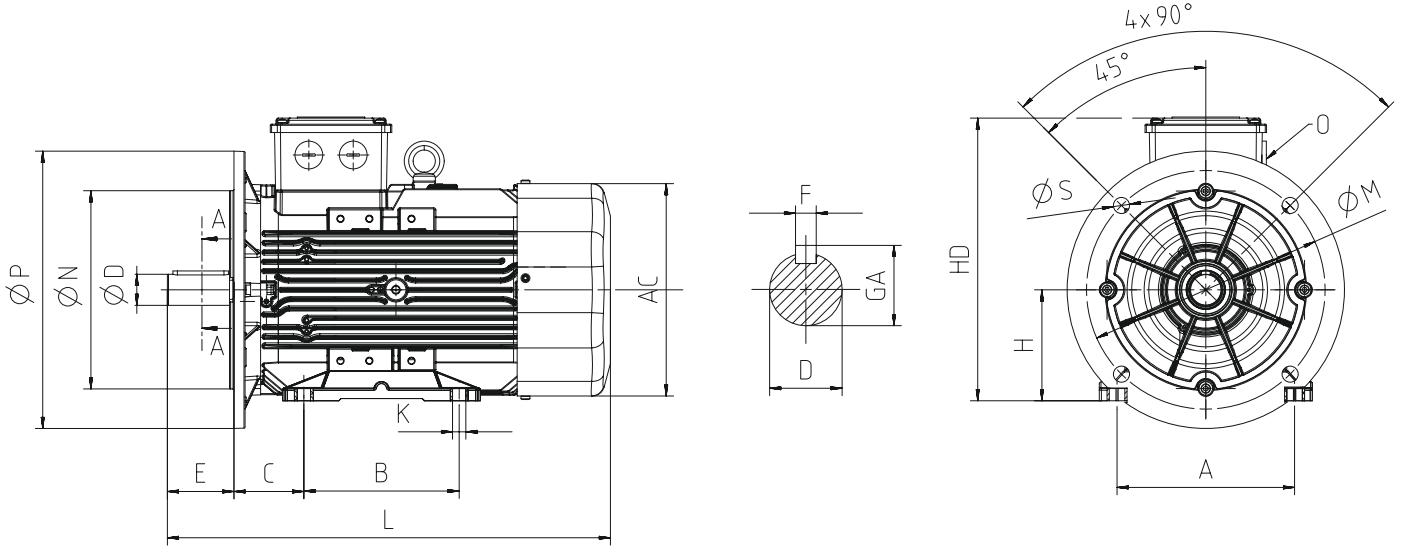
BOYUTLAR - B3 / DIMENSION - B3



Güç Power (kW)	Kutup sayısı Number of Poles	Motor Tipi Motor Type	Gövde Tipi Housing Type	Ana Boyutlar Main Dimensions			Ayaklı Motorlar Foot Mounted Motors					Mil Shaft				Rulman Bearing		Keçe Seal		
				AC	L	O	B	A	H	HD	K	C	D ⁽¹⁾	E	GA	F ⁽²⁾	Kasnak Taraflı Drive Side	Kasnak Taraflı Aksı Non Drive Side	Kasnak Taraflı Drive Side	Kasnak Taraflı Aksı Non Drive Side
1,1	4	Q2H80M4D	Aluminium	158	268	1xM20	100	125	80	216	10	50	19	40	21,5	6	6204-ZZ	6204-ZZ	20*30*7	20*30*7
1,5	2	Q2H80M2D	Aluminium	158	268	1xM20	100	125	80	216	10	50	19	40	21,5	6	6204-ZZ	6204-ZZ	20*30*7	20*30*7
1,5	4	Q2H80M4DE	Aluminium	158	268	1xM20	100	125	80	216	10	50	19	40	21,5	6	6204-ZZ	6204-ZZ	20*30*7	20*30*7
2,2	2	Q2H80M2DE	Aluminium	158	268	1xM20	100	125	80	216	10	50	19	40	21,5	6	6204-ZZ	6204-ZZ	20*30*7	20*30*7
2,2	4	Q2H90L4D	Aluminium	172	344	1xM25	100-125	140	90	223	10	56	24	50	27,0	8	6305-ZZ	6205-ZZ	25*40*7	25*40*7
3,0	2	Q2H90L2D	Aluminium	172	344	1xM25	100-125	140	90	223	10	56	24	50	27,0	8	6305-ZZ	6205-ZZ	25*40*7	25*40*7
3,0	4	Q2H90L4DE	Aluminium	172	379	1xM25	100-125	140	90	223	10	56	24	50	27,0	8	6305-ZZ	6205-ZZ	25*40*7	25*40*7
4,0	2	Q2HS100L2C	Aluminium	172	384	1xM25	140	160	100	233	12	63	28	60	31,0	8	6306-ZZ	6205-ZZ	30*47*7	25*40*7
4,0	4	Q2H100L4D	Aluminium	191	400	1xM25	140	160	100	243	12	63	28	60	31,0	8	6306-ZZ	6205-ZZ	30*47*7	25*40*7
5,5	2	Q2HS112M2C	Aluminium	191	399	1xM25	140	190	112	254	12	70	28	60	31,0	8	6306-ZZ	6205-ZZ	30*47*7	25*40*7
5,5	4	Q2H112M4D	Aluminium	210	421	1xM25	140	190	112	265	12	70	28	60	31,0	8	6306-ZZ	6206-ZZ	30*47*7	30*47*7
7,5	2	Q2HS112M2D	Aluminium	191	421	1xM25	140	190	112	254	12	70	28	60	31,0	8	6306-ZZ	6205-ZZ	30*47*7	25*40*7
11,0	2	Q2H132M2A	Aluminium	260	481	1xM32	140-178	216	132	312	12	89	38	80	41,0	10	6208-ZZ	6208-ZZ	40*62*10	40*62*10
11,0	4	Q2H132M4D	Aluminium	260	481	1xM32	140-178	216	132	312	12	89	38	80	41,0	10	6208-ZZ	6208-ZZ	40*62*10	40*62*10
15,0	2	Q2H132M2B	Aluminium	260	481	1xM32	140-178	216	132	312	12	89	38	80	41,0	10	6208-ZZ	6208-ZZ	40*62*10	40*62*10
15,0	4	Q2H132M4E	Aluminium	260	539	1xM32	140-178	216	132	312	12	89	38	80	41,0	10	6208-ZZ	6208-ZZ	40*62*10	40*62*10
18,5	2	Q2H132M2C	Aluminium	260	539	1xM32	140-178	216	132	312	12	89	38	80	41,0	10	6208-ZZ	6208-ZZ	40*62*10	40*62*10
18,5	4	Q2H160L4B	Aluminium	305	591	1xM32	210-254	254	160	368	14,5	108	42	110	45,0	12	6309-ZZ	6209-ZZ	45*72*10	45*72*10
22,0	2	Q2H160L2C	Aluminium	305	591	1xM32	210-254	254	160	368	14,5	108	42	110	45,0	12	6309-ZZ	6209-ZZ	45*72*10	45*72*10
22,0	4	Q2H160L4C	Aluminium	305	591	1xM32	210-254	254	160	368	14,5	108	42	110	45,0	12	6309-ZZ	6209-ZZ	45*72*10	45*72*10
30,0	2	Q2H180M2B	Aluminium	349	696	1xM40	241-279	279	180	437	14,5	121	48	110	51,5	14	6310-ZZ	6310-ZZ	50*80*10	50*80*10
30,0	4	Q2H180L4C	Aluminium	349	696	1xM40	241-279	279	180	437	14,5	121	48	110	51,5	14	6310-ZZ	6310-ZZ	50*80*10	50*80*10
37,0	2	Q2H180M2C	Aluminium	349	696	1xM40	241-279	279	180	437	14,5	121	48	110	51,5	14	6310-ZZ	6310-ZZ	50*80*10	50*80*10
37,0	4	Q2H200L4D	Aluminium	349	759	1xM50	267-305	318	200	455	18,5	133	55	110	59,0	16	6312-ZZ	6310-ZZ	60*90*10	60*90*10
45,0	2	Q2H200L2D	Aluminium	349	759	1xM50	267-305	318	200	455	18,5	133	55	110	59,0	16	6312-ZZ	6310-ZZ	60*90*10	60*90*10
55,0	2	Q2E225M2C	Aluminium	456	735	1xM50	286-311	356	225	485	18,5	149	55	110	59,0	16	6313-ZZ	6313-ZZ	65*100*13	65*100*13
75,0	2	Q2EP250M2C	Cast Iron	489	893	1xM50	311-349	406	250	616	30	149	60	140	64,0	18	6316-Z	6316-Z	80*100*10	80*100*10
75,0	4	Q2EP250M4E	Cast Iron	489	893	1xM50	311-349	406	250	616	30	149	65	140	69,0	18	6316-Z	6316-Z	80*100*10	80*100*10
110,0	2	Q2EP280M2D	Cast Iron	489	1025	1xM50	368-419	457	280	647	24	190	65	140	69,0	18	6316-Z	6316-Z	80*100*10	80*100*10
110,0	4	Q2EP280M4E	Cast Iron	489	1025	1xM50	368-419	457	280	647	24	130	75	140	79,5	20	6316-Z	6316-Z	80*100*10	80*100*10

(1) Toleranslar 28 mm'ye kadar DIN EN 50347 "j6", 28 mm ve üzeri "k6" / Tolerance DIN EN 50347 "j6" up to 28mm, "k6" above 28mm
(2) DIN 6885'e göre / According to DIN 6885

BOYUTLAR - B5, B35 / DIMENSION - B5, B35



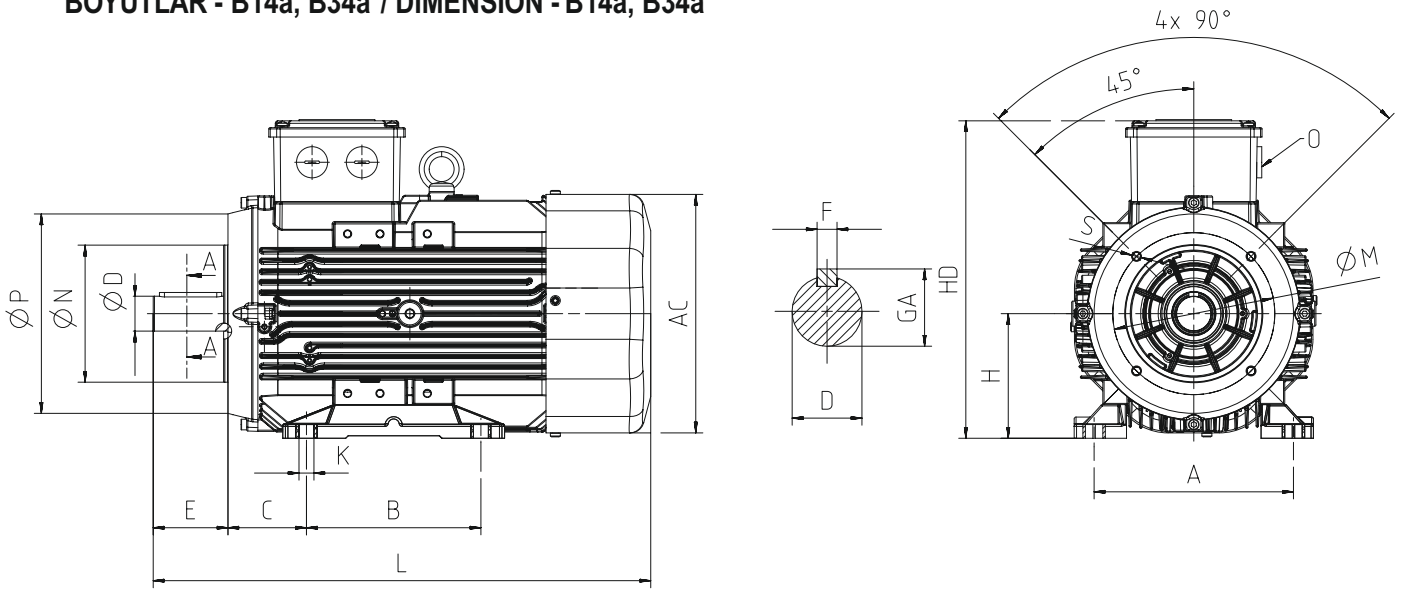
Güç Power (kW)	Kutup sayısı Number of Poles	Motor Tipi Motor Type	Gövde Tipi Housing Type	Ana Boyutlar Main Dimensions			Ayaklı Motorlar Foot Mounted Motors					Mil Shaft			Rulman Bearing		Keçe Seal		Flanş (FA) (B5) Flange (FA) (B5)					
				AC	L	O	B	A	H	HD	K	D ⁽¹⁾	E	GA	F ⁽²⁾	Kasnak Taraflı Drive Side	Kasnak Taraflı Aksı Non drive Side	Kasnak Taraflı Drive Side	Kasnak Taraflı Aksı Non drive Side	P	N ⁽³⁾	M	R	S
1,1	4	Q2H80M4D	Aluminium	158	268	1xM20	100	125	80	216	10,0	19	40	21,5	6	6204-ZZ	6204-ZZ	20*30*7	20*30*7	200	130	165	-	12,0
1,5	2	Q2H80M2D	Aluminium	158	268	1xM20	100	125	80	216	10,0	19	40	21,5	6	6204-ZZ	6204-ZZ	20*30*7	20*30*7	200	130	165	-	12,0
1,5	4	Q2H80M4DE	Aluminium	158	268	1xM20	100	125	80	216	10,0	19	40	21,5	6	6204-ZZ	6204-ZZ	20*30*7	20*30*7	200	130	165	-	12,0
2,2	2	Q2H80M2DE	Aluminium	158	268	1xM20	100	125	80	216	10,0	19	40	21,5	6	6204-ZZ	6204-ZZ	20*30*7	20*30*7	200	130	165	-	12,0
2,2	4	Q2H90L4D	Aluminium	172	344	1xM25	100-125	140	90	223	10,0	24	50	27,0	8	6305-ZZ	6205-ZZ	25*40*7	25*40*7	200	130	165	-	12,0
3,0	2	Q2H90L2D	Aluminium	172	344	1xM25	100-125	140	90	223	10,0	24	50	27,0	8	6305-ZZ	6205-ZZ	25*40*7	25*40*7	200	130	165	-	12,0
3,0	4	Q2H90L4DE	Aluminium	172	379	1xM25	100-125	140	90	223	10,0	24	50	27,0	8	6305-ZZ	6205-ZZ	25*40*7	25*40*7	200	130	165	-	12,0
4,0	2	Q2HS100L2C	Aluminium	172	384	1xM25	140	160	100	233	12,0	28	60	31,0	8	6306-ZZ	6205-ZZ	30*47*7	25*40*7	250	180	215	-	14,5
4,0	4	Q2H100L4D	Aluminium	191	400	1xM25	140	160	100	243	12,0	28	60	31,0	8	6306-ZZ	6205-ZZ	30*47*7	30*47*7	250	180	215	-	14,5
5,5	2	Q2HS112M2C	Aluminium	191	399	1xM25	140	190	112	254	12,0	28	60	31,0	8	6306-ZZ	6205-ZZ	30*47*7	25*40*7	250	180	215	-	14,5
5,5	4	Q2H112M4D	Aluminium	210	421	1xM25	140	190	112	265	12,0	28	60	31,0	8	6306-ZZ	6206-ZZ	30*47*7	30*47*7	250	180	215	-	14,5
7,5	2	Q2HS112M2D	Aluminium	191	421	1xM25	140	190	112	254	12,0	28	60	31,0	8	6306-ZZ	6205-ZZ	30*47*7	25*40*7	250	180	215	-	14,5
11,0	2	Q2H132M2A	Aluminium	260	481	1xM32	140-178	216	132	312	12,0	38	80	41,0	10	6208-ZZ	6208-ZZ	40*62*10	40*62*10	300	230	265	-	14,5
11,0	4	Q2H132M4D	Aluminium	260	481	1xM32	140-178	216	132	312	12,0	38	80	41,0	10	6208-ZZ	6208-ZZ	40*62*10	40*62*10	300	230	265	-	14,5
15,0	2	Q2H132M2B	Aluminium	260	481	1xM32	140-178	216	132	312	12,0	38	80	41,0	10	6208-ZZ	6208-ZZ	40*62*10	40*62*10	300	230	265	-	14,5
15,0	4	Q2H132M4E	Aluminium	260	539	1xM32	140-178	216	132	312	12,0	38	80	41,0	10	6208-ZZ	6208-ZZ	40*62*10	40*62*10	300	230	265	-	14,5
18,5	2	Q2H132M2C	Aluminium	260	539	1xM32	140-178	216	132	312	12,0	38	80	41,0	10	6208-ZZ	6208-ZZ	40*62*10	40*62*10	300	230	265	-	14,5
18,5	4	Q2H160L4B	Aluminium	305	591	1xM32	210-254	254	160	368	14,5	42	110	45,0	12	6309-ZZ	6209-ZZ	45*72*10	45*72*10	350	250	300	-	18,5
22,0	2	Q2H160L2C	Aluminium	305	591	1xM32	210-254	254	160	368	14,5	42	110	45,0	12	6309-ZZ	6209-ZZ	45*72*10	45*72*10	350	250	300	-	18,5
22,0	4	Q2H160L4C	Aluminium	305	591	1xM32	210-254	254	160	368	14,5	42	110	45,0	12	6309-ZZ	6209-ZZ	45*72*10	45*72*10	350	250	300	-	18,5
30,0	2	Q2H180M2B	Aluminium	349	696	1xM40	241-279	279	180	437	14,5	48	110	51,5	14	6310-ZZ	6310-ZZ	50*80*10	50*80*10	350	250	300	-	18,5
30,0	4	Q2H180L4C	Aluminium	349	696	1xM40	241-279	279	180	437	14,5	48	110	51,5	14	6310-ZZ	6310-ZZ	50*80*10	50*80*10	350	250	300	-	18,5
37,0	2	Q2H180M2C	Aluminium	349	696	1xM40	241-279	279	180	437	14,5	48	110	51,5	14	6310-ZZ	6310-ZZ	50*80*10	50*80*10	350	250	300	-	18,5
37,0	4	Q2H200L4D	Aluminium	349	759	1xM50	267-305	318	200	455	18,5	55	110	59,0	16	6312-ZZ	6310-ZZ	60*90*10	60*90*10	400	300	350	-	18,5
45,0	2	Q2H200L2D	Aluminium	349	759	1xM50	267-305	318	200	455	18,5	55	110	59,0	16	6312-ZZ	6310-ZZ	60*90*10	60*90*10	400	300	350	-	18,5
55,0	2	Q2E225M2C	Aluminium	456	735	1xM50	286-311	356	225	485	18,5	55	110	59,0	16	6313-ZZ	6313-ZZ	65*100*13	65*100*13	450	350	400	-	18,5
75,0	2	Q2EP250M2C	Cast Iron	489	893	1xM50	349	406	250	616	24,0	60	140	69,0	18	6316-Z	6316-Z	80*100*10	80*100*10	550	450	500	-	18,5
75,0	4	Q2EP250M4E	Cast Iron	489	893	1xM50	349	406	250	616	24,0	65	140	69,0	18	6316-Z	6316-Z	80*100*10	80*100*10	550	450	500	-	18,5
110,0	2	Q2EP280M2D	Cast Iron	489	1025	1xM50	419	457	280	647	24,0	65	140	69,0	18	6316-Z	6316-Z	80*100*10	80*100*10	550	450	500	-	18,5
110,0	4	Q2EP280M4E	Cast Iron	489	1025	1xM50	419	457	280	647	24,0	75	140	79,5	20	6316-Z	6316-Z	80*100*10	80*100*10	550	450	500	-	18,5

(1) Toleranslar 28 mm'ye kadar DIN EN 50347 "j6", 28 mm ve üzeri "k6" / Tolerance DIN EN 50347 "j6" up to 28mm, "k6" above 28mm

(2) DIN 6885'e göre / According to DIN 6885

(3) Tolerans DIN EN 50347 "j6" / Tolerance DIN EN 50347 "j6"

BOYUTLAR - B14a, B34a / DIMENSION - B14a, B34a



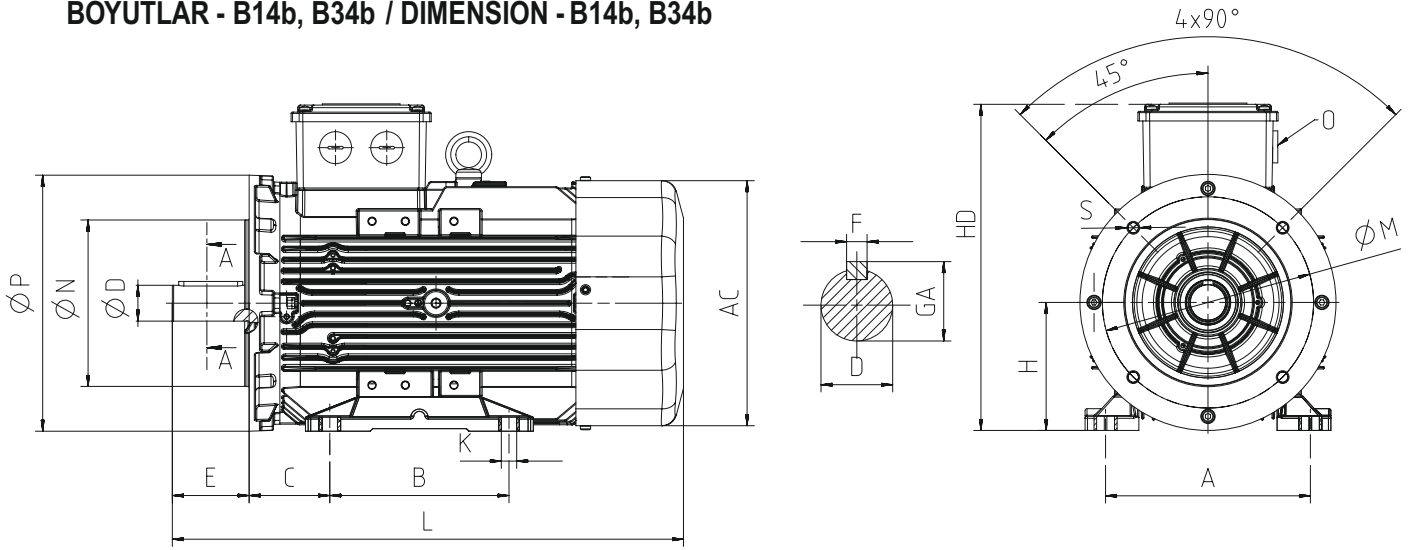
Güç Power (kW)	Kutup sayısı Number of Poles	Motor Tipi Motor Type	Gövde Tipi Housing Type	Ana Boyutlar Main Dimensions			Ayaklı Motorlar Foot Mounted Motors					Mil Shaft		Rulman Bearing		Keçe Seal		Flanş (FC) (B14a) Flange (FC) (B14a)						
				AC	L	O	B	A	H	HD	K	D ⁽¹⁾	E	GA	F ⁽²⁾	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksı Non drive Side	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksı Non drive Side	P	N ⁽³⁾	M	R	S
1,1	4	Q2H80M4D	Aluminium	158	268	1xM20	100	125	80	216	10	19	40	21,5	6	6204-ZZ	6204-ZZ	20*30*7	20*30*7	120	80	100	-	M6
1,5	2	Q2H80M2D	Aluminium	158	268	1xM20	100	125	80	216	10	19	40	21,5	6	6204-ZZ	6204-ZZ	20*30*7	20*30*7	120	80	100	-	M6
1,5	4	Q2H80M4DE	Aluminium	158	268	1xM20	100	125	80	216	10	19	40	21,5	6	6204-ZZ	6204-ZZ	20*30*7	20*30*7	120	80	100	-	M6
2,2	2	Q2H80M2DE	Aluminium	158	268	1xM20	100	125	80	216	10	19	40	21,5	6	6204-ZZ	6204-ZZ	20*30*7	20*30*7	120	80	100	-	M6
2,2	4	Q2H90L4D	Aluminium	172	344	1xM25	100-125	140	90	223	10	24	50	27,0	8	6305-ZZ	6205-ZZ	25*40*7	25*40*7	140	95	115	-	M8
3,0	2	Q2H90L2D	Aluminium	172	344	1xM25	100-125	140	90	223	10	24	50	27,0	8	6305-ZZ	6205-ZZ	25*40*7	25*40*7	140	95	115	-	M8
3,0	4	Q2H90L4DE	Aluminium	172	379	1xM25	100-125	140	90	223	10	24	50	27,0	8	6305-ZZ	6205-ZZ	25*40*7	25*40*7	140	95	115	-	M8
4,0	2	Q2HS100L2C	Aluminium	172	384	1xM25	140	160	100	233	12	28	60	31,0	8	6306-ZZ	6205-ZZ	30*47*7	25*40*7	160	110	130	-	M8
4,0	4	Q2H100L4D	Aluminium	191	400	1xM25	140	160	100	243	12	28	60	31,0	8	6306-ZZ	6205-ZZ	30*47*7	30*47*7	160	110	130	-	M8
5,5	2	Q2HS112M2C	Aluminium	191	399	1xM25	140	190	112	254	12	28	60	31,0	8	6306-ZZ	6205-ZZ	30*47*7	25*40*7	160	110	130	-	M8
5,5	4	Q2H112M4D	Aluminium	210	421	1xM25	140	190	112	265	12	28	60	31,0	8	6306-ZZ	6206-ZZ	30*47*7	30*47*7	160	110	130	-	M8
7,5	2	Q2HS112M2D	Aluminium	191	421	1xM25	140	190	112	254	12	28	60	31,0	8	6306-ZZ	6205-ZZ	30*47*7	25*40*7	160	110	130	-	M8
11,0	2	Q2H132M2A	Aluminium	260	481	1xM32	140-178	216	132	312	12	38	80	41,0	10	6208-ZZ	6208-ZZ	40*62*10	40*62*10	200	130	165	-	M10
11,0	4	Q2H132M4D	Aluminium	260	539	1xM32	140-178	216	132	312	12	38	80	41,0	10	6208-ZZ	6208-ZZ	40*62*10	40*62*10	200	130	165	-	M10
15,0	2	Q2H132M2B	Aluminium	260	539	1xM32	140-178	216	132	312	12	38	80	41,0	10	6208-ZZ	6208-ZZ	40*62*10	40*62*10	200	130	165	-	M10
15,0	4	Q2H132M4E	Aluminium	260	539	1xM32	140-178	216	132	312	12	38	80	41,0	10	6208-ZZ	6208-ZZ	40*62*10	40*62*10	200	130	165	-	M10
18,5	2	Q2H132M2C	Aluminium	260	539	1xM32	140-178	216	132	312	12	38	80	41,0	10	6208-ZZ	6208-ZZ	40*62*10	40*62*10	200	130	165	-	M10

(1) Toleranslar 28 mm'ye kadar DIN EN 50347 "j6", 28 mm ve üzeri "k6" / Tolerance DIN EN 50347 "j6" up to 28mm, "k6" above 28mm

(2) DIN 6885'e göre / According to DIN 6885

(3) Tolerans DIN EN 50347 "j6" / Tolerance DIN EN 50347 "j6"

BOYUTLAR - B14b, B34b / DIMENSION - B14b, B34b



Güç Power (kW)	Kutup sayısı Number of Poles	Motor Tipi Motor Type	Gövde Tipi Housing Type	Ana Boyutlar Main Dimensions			Ayaklı Motorlar Foot Mounted Motors					Mil Shaft				Rulman Bearing		Keçe Seal		Flanş (FB) (B14b) Flange (FB) (B14b)				
				AC	L	O	B	A	H	HD	K	D ⁽¹⁾	E	GA	F ⁽²⁾	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksı Non drive Side	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksı Non drive Side	P	N ⁽³⁾	M	R	S
1,1	4	Q2H80M4D	Aluminium	158	268	1xM20	100	125	80	216	10	19	40	21,5	6	6204-ZZ	6204-ZZ	20*30*7	20*30*7	160	110	130	-	M8
1,5	2	Q2H80M2D	Aluminium	158	268	1xM20	100	125	80	216	10	19	40	21,5	6	6204-ZZ	6204-ZZ	20*30*7	20*30*7	160	110	130	-	M8
1,5	4	Q2H80M4DE	Aluminium	158	268	1xM20	100	125	80	216	10	19	40	21,5	6	6204-ZZ	6204-ZZ	20*30*7	20*30*7	160	110	130	-	M8
2,2	2	Q2H80M2DE	Aluminium	158	268	1xM20	100	125	80	216	10	19	40	21,5	6	6204-ZZ	6204-ZZ	20*30*7	20*30*7	160	110	130	-	M8
2,2	4	Q2H90L4D	Aluminium	172	344	1xM25	100-125	140	90	223	10	24	50	27,0	8	6305-ZZ	6205-ZZ	25*40*7	25*40*7	160	110	130	-	M8
3,0	2	Q2H90L2D	Aluminium	172	344	1xM25	100-125	140	90	223	10	24	50	27,0	8	6305-ZZ	6205-ZZ	25*40*7	25*40*7	160	110	130	-	M8
3,0	4	Q2H90L4DE	Aluminium	172	379	1xM25	100-125	140	90	223	10	24	50	27,0	8	6305-ZZ	6205-ZZ	25*40*7	25*40*7	160	110	130	-	M8
4,0	2	Q2HS100L2C	Aluminium	172	384	1xM25	140	160	100	233	12	28	60	31,0	8	6306-ZZ	6205-ZZ	30*47*7	25*40*7	200	130	165	-	M10
4,0	4	Q2H100L4D	Aluminium	191	400	1xM25	140	160	100	243	12	28	60	31,0	8	6306-ZZ	6205-ZZ	30*47*7	30*47*7	200	130	165	-	M10
5,5	2	Q2HS112M2C	Aluminium	191	399	1xM25	140	190	112	254	12	28	60	31,0	8	6306-ZZ	6205-ZZ	30*47*7	25*40*7	200	130	165	-	M10
5,5	4	Q2H112M4D	Aluminium	210	421	1xM25	140	190	112	265	12	28	60	31,0	8	6306-ZZ	6206-ZZ	30*47*7	30*47*7	200	130	165	-	M10
7,5	2	Q2HS112M2D	Aluminium	191	421	1xM25	140	190	112	254	12	28	60	31,0	8	6306-ZZ	6205-ZZ	30*47*7	25*40*7	200	130	165	-	M10
11,0	2	Q2H132M2A	Aluminium	260	481	1xM32	140-178	216	132	312	12	38	80	41,0	10	6208-ZZ	6208-ZZ	40*62*10	40*62*10	250	180	215	-	M12
11,0	4	Q2H132M4D	Aluminium	260	539	1xM32	140-178	216	132	312	12	38	80	41,0	10	6208-ZZ	6208-ZZ	40*62*10	40*62*10	250	180	215	-	M12
15,0	2	Q2H132M2B	Aluminium	260	539	1xM32	140-178	216	132	312	12	38	80	41,0	10	6208-ZZ	6208-ZZ	40*62*10	40*62*10	250	180	215	-	M12
15,0	4	Q2H132M4E	Aluminium	260	539	1xM32	140-178	216	132	312	12	38	80	41,0	10	6208-ZZ	6208-ZZ	40*62*10	40*62*10	250	180	215	-	M12
18,5	2	Q2H132M2C	Aluminium	260	539	1xM32	140-178	216	132	312	12	38	80	41,0	10	6208-ZZ	6208-ZZ	40*62*10	40*62*10	250	180	215	-	M12

(1) Toleranslar 28 mm'ye kadar DIN EN 50347 "j6", 28 mm ve üzeri "k6" / Tolerance DIN EN 50347 "j6" up to 28mm, "k6" above 28mm

(2) DIN 6885'e göre / According to DIN 6885

(3) Tolerans DIN EN 50347 "j6" / Tolerance DIN EN 50347 "j6"

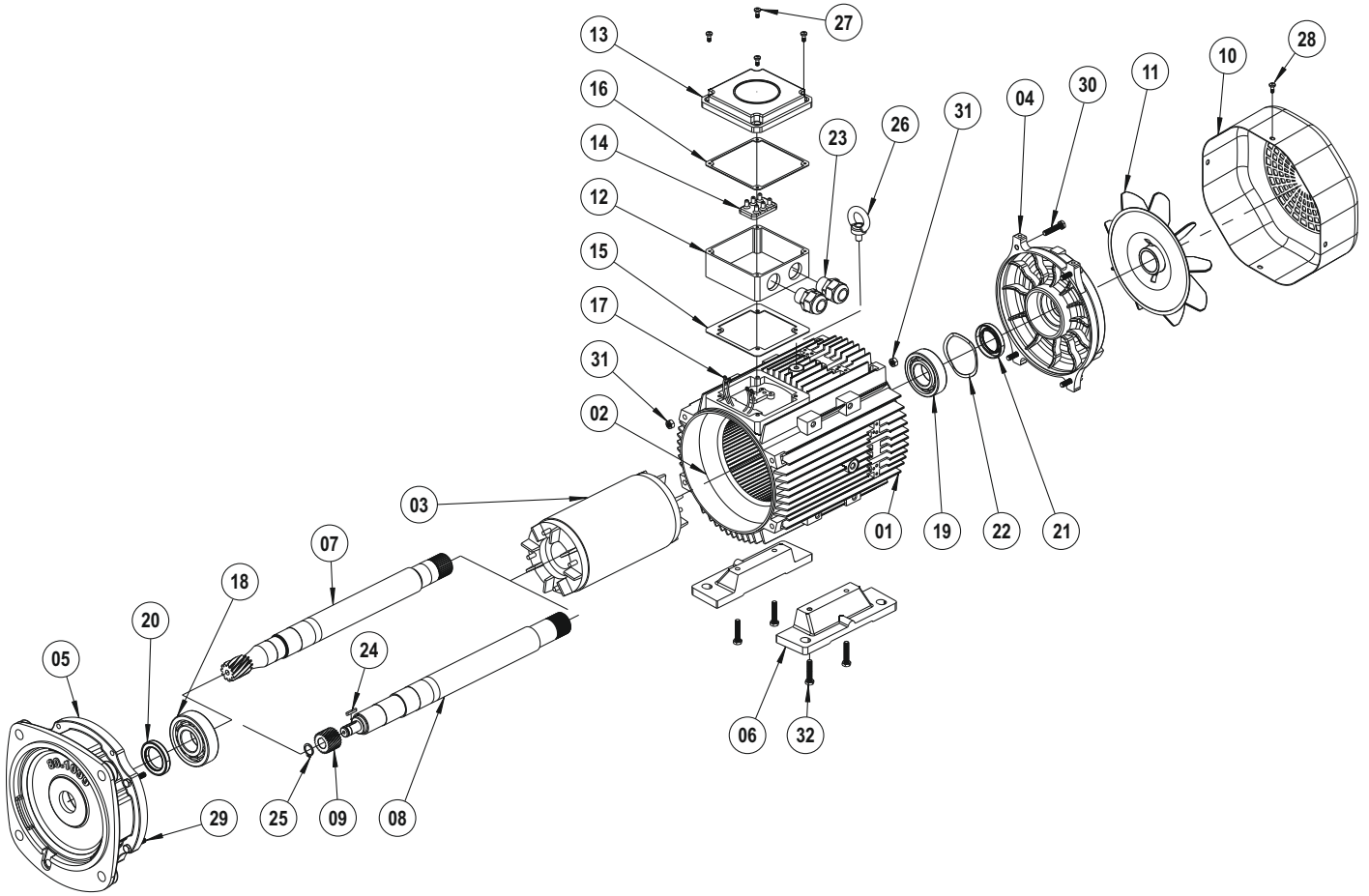


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TR MOTOR PARÇA LİSTESİ

EN MOTOR PART LIST

DE ERSATZTEILLISTE FÜR MOTOR



- 01 Gövde
- 02 Sargılı Stator
- 03 Rotor
- 04 Motor Arka Kapağı
- 05 PGR Motor Bağlantı Flanşı
- 06 Ayak
- 07 Motor Mili (Yekpare)
- 08 Motor Mili (Çakma)
- 09 Z1 Dişlisi
- 10 Fan Kapağı
- 11 Fan
- 12 Terminal Kutusu
- 13 Terminal Kutu Kapağı
- 14 Klemens Plakası
- 15 Terminal Contası Alt
- 16 Terminal Contası Üst
- 17 Kablo Grubu
- 18 Ön Rulman
- 19 Arka Rulman
- 20 Keçe (Ön)
- 21 Keçe (Arka)
- 22 Rulman Gergi Yayı
- 23 Rakor
- 24 Kama
- 25 Segman
- 26 Mapa
- 27 Yıldız Başlı Civata
- 28 Yıldız Başlı Civata
- 29 Civata DIN 933
- 30 Civata DIN 933
- 31 Somun
- 32 Civata DIN 933

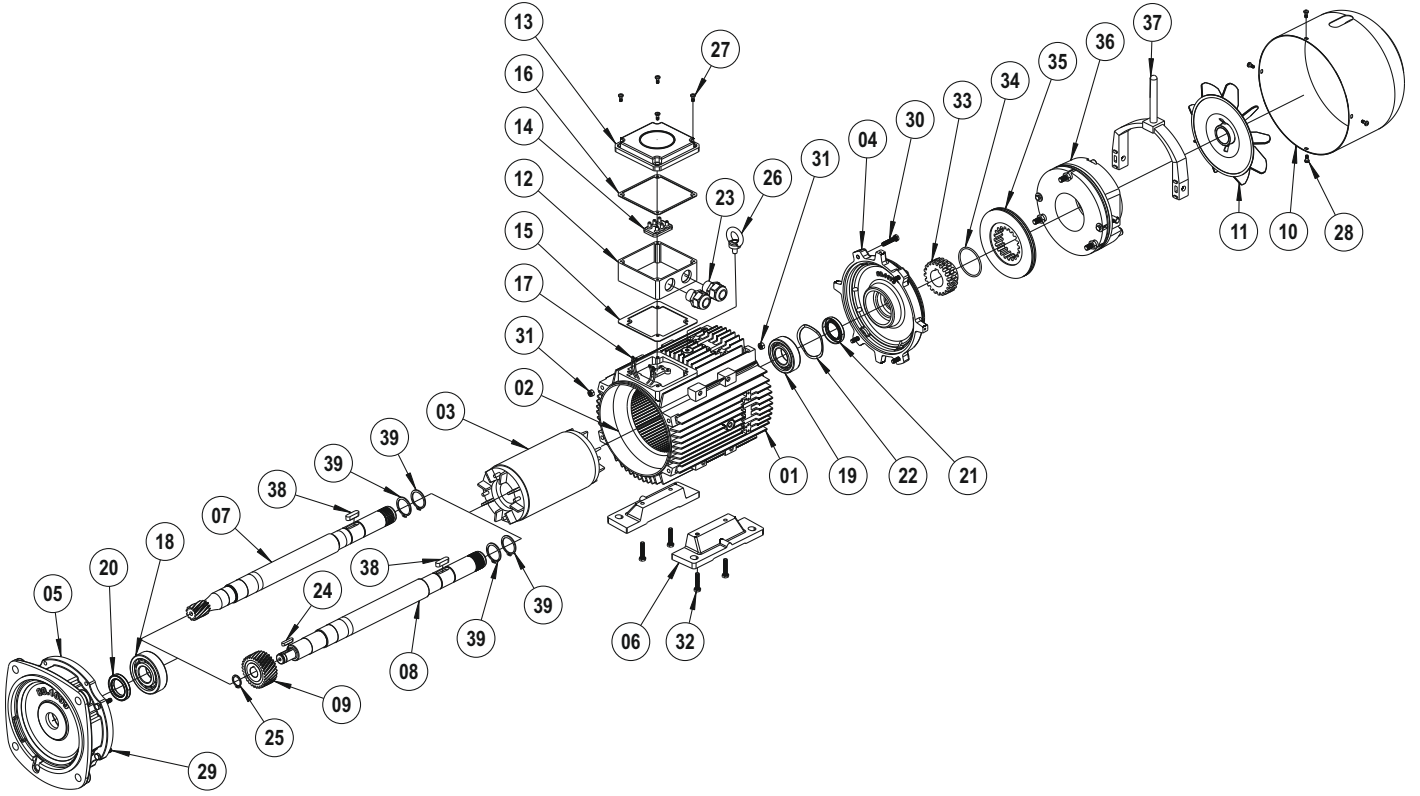
- 01 Housing
- 02 Wound Stator
- 03 Rotor
- 04 Nondrive - Endshield
- 05 Motor Connection Flange
- 06 Foot
- 07 Drive Shaft (Gearcut)
- 08 Drive Shaft (Plain)
- 09 Z1 Gear
- 10 Fan Cover
- 11 Fan
- 12 Terminal Box
- 13 Terminal Box Cover
- 14 Terminal Plate
- 15 Terminal Gasket Down
- 16 Terminal Gasket Up
- 17 Lead Cables
- 18 Ball Bearing (Drive-Side)
- 19 Ball Bearing (Non-Drive-Side)
- 20 Seal Ring (Front)
- 21 Seal Ring (Back)
- 22 Bearing Shim
- 23 Conduit
- 24 Key
- 25 Circlip DIN 471
- 26 Eye Bolt
- 27 Pan Head Secrews
- 28 Pan Head Secrews
- 29 Bolt
- 30 Bolt
- 31 Nut
- 32 Bolt

- 01 Gehäuse
- 02 gewickelter Stator
- 03 Rotor
- 04 B-Lagerschild
- 05 Motor-Anschlussflansch
- 06 Fuß
- 07 Antriebswelle (verzahnt)
- 08 Antriebswelle (glatt)
- 09 Antriebsritzel
- 10 Lüfterhaube
- 11 Lüfter
- 12 Klemmkasten
- 13 Klemmkastendeckel
- 14 Anschlussplatte
- 15 Klemmkastendichtung unten
- 16 Klemmkastendichtung oben
- 17 Kabelbaum
- 18 Kugellager (Antriebsseite)
- 19 Kugellager (Nicht-Antriebsseite)
- 20 Dichtungsring (Vorne)
- 21 Dichtungsring (Hinten)
- 22 Stützscheibe
- 23 Gewindemuffe
- 24 Passfeder
- 25 Sicherungsring DIN 471
- 26 Augenschraube
- 27 Kreuzschlitzschraube
- 28 Kreuzschlitzschraube
- 29 Schraube DIN 933
- 30 Schraube DIN 933
- 31 Schraubenmutter
- 32 Schraube DIN 933

TR FRENLİ MOTOR PARÇA LİSTESİ

EN BRAKE MOTOR PART LIST

DE ERSATZTEILLISTE FÜR MOTOR MIT BREMSE



- 01 Gövde
- 02 Sargılı Stator
- 03 Rotor
- 04 Fren Flanşı
- 05 PGR Motor Bağlantı Flanşı
- 06 Ayak
- 07 Motor Mili (Yekpare)
- 08 Motor Mili (Çakma)
- 09 Z1 Dişlisi
- 10 Fan Kapağı
- 11 Fan
- 12 Terminal Kutusu
- 13 Terminal Kutu Kapağı
- 14 Klemens Plakası
- 15 Terminal Contası Alt
- 16 Terminal Contası Üst
- 17 Kablo Grubu
- 18 Ön Rulman
- 19 Arka Rulman
- 20 Keçe (Ön)
- 21 Keçe (Arka)
- 22 Rulman Gergi Yayı
- 23 Rakor
- 24 Kama
- 25 Segman
- 26 Mapa
- 27 Yıldız Başlı Civata
- 28 Yıldız Başlı Civata
- 29 Civata DIN 933
- 30 Civata DIN 933
- 31 Somun
- 32 Civata DIN 933
- 33 Fren Kaplini
- 34 O-Ring
- 35 Fren Balatası
- 36 Fren
- 37 Manuel Kolu
- 38 Kama
- 39 Segman DIN 471

- 01 Housing
- 02 Wound Stator
- 03 Rotor
- 04 Brake Connection Flange
- 05 Motor Connection Flange
- 06 Foot
- 07 Drive Shaft (Gearcut)
- 08 Drive Shaft (Plain)
- 09 Z1 Gear
- 10 Fan Cover
- 11 Fan
- 12 Terminal Box
- 13 Terminal Box Cover
- 14 Terminal Plate
- 15 Terminal Gasket Down
- 16 Terminal Gasket Up
- 17 Lead Cables
- 18 Ball Bearing (Drive-Side)
- 19 Ball Bearing (Non-Drive-Side)
- 20 Seal Ring (Front)
- 21 Seal Ring (Back)
- 22 Bearing Shim
- 23 Conduit
- 24 Key
- 25 Circlip DIN 471
- 26 Eye Bolt
- 27 Pan Head Screws
- 28 Pan Head Screws
- 29 Bolt
- 30 Bolt
- 31 Nut
- 32 Bolt
- 33 Coupling
- 34 O-Ring
- 35 Brake Lining
- 36 Brake
- 37 Hand Release
- 38 Key
- 39 Circlip DIN 471

- 01 Gehäuse
- 02 gewickelter Stator
- 03 Rotor
- 04 Bremsflansch
- 05 Motor-Anschlussflansch
- 06 Fuß
- 07 Antriebswelle (verzahnt)
- 08 Antriebswelle (glatt)
- 09 Antriebsritzel
- 10 Lüfterhaube
- 11 Lüfter
- 12 Klemmkasten
- 13 Klemmkastendeckel
- 14 Anschlussplatte
- 15 Klemmkastendichtung unten
- 16 Klemmkastendichtung oben
- 17 Kabelbaum
- 18 Kugellager (Antriebsseite)
- 19 Kugellager (Nicht-Antriebsseite)
- 20 Dichtungsring (Vorne)
- 21 Dichtungsring (Hinten)
- 22 Stützscheibe
- 23 Gewindemuffe
- 24 Passfeder
- 25 Sicherungsring DIN 471
- 26 Augenschraube
- 27 Kreuzschlitzschraube
- 28 Kreuzschlitzschraube
- 29 Schraube DIN 933
- 30 Schraube DIN 933
- 31 Schraubenmutter
- 32 Schraube DIN 933
- 33 Kupplung
- 34 O-Ring
- 35 Bremsbelag
- 36 Bremse
- 37 Handauslöser
- 38 Passfeder
- 39 Sicherungsring DIN 471

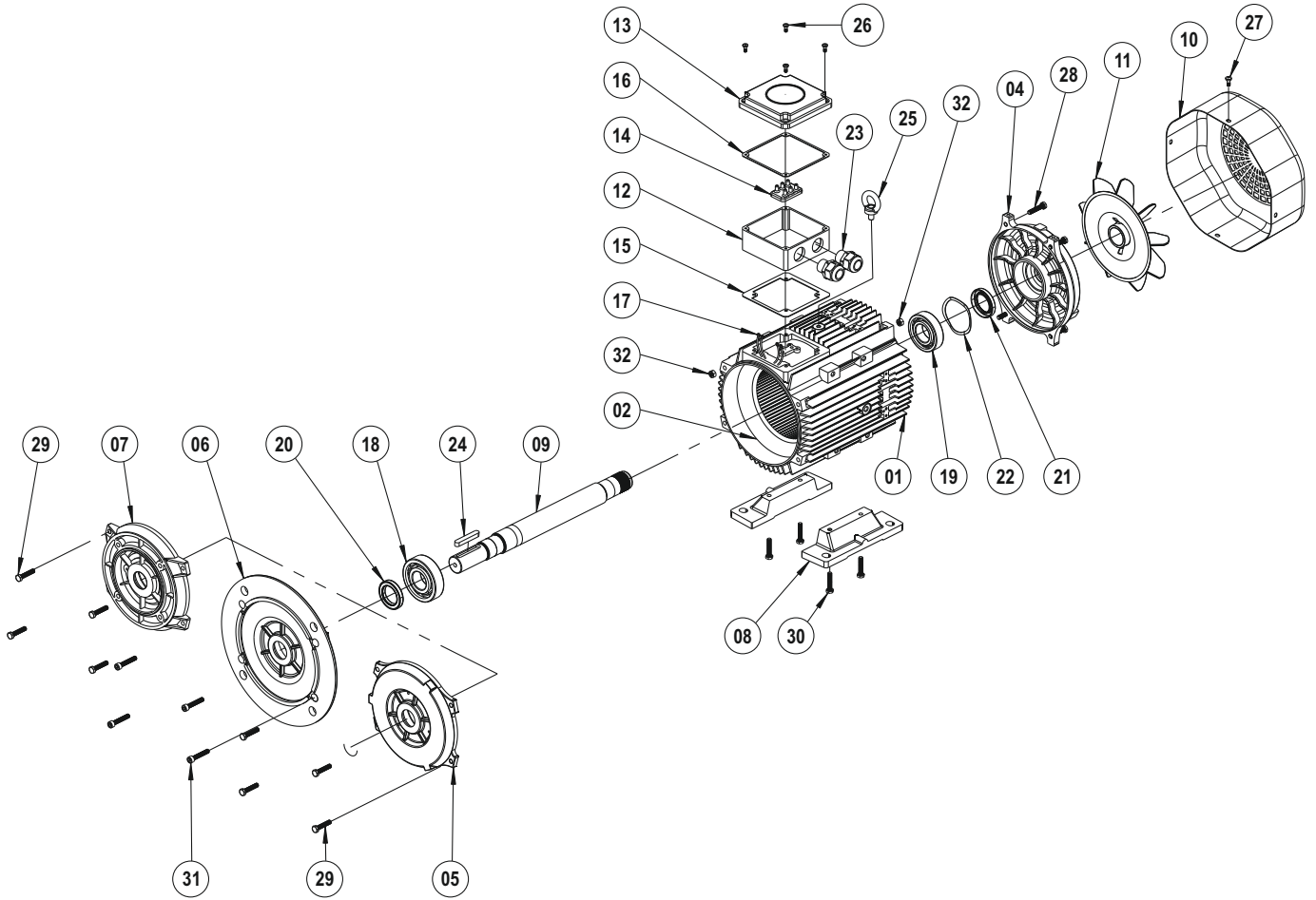
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**B3-B5-B14 FLANŞLI MOTOR
 PARÇA LİSTESİ**

EN

B3-B5-B14 FLANGE MOTOR PART LIST

DE

**ERSATZTEILLISTE FÜR MOTOR
 MIT B3-B5-B14-FLANSCH**


- 01 Gövde
- 02 Sargılı Stator
- 03 Rotor
- 04 Motor Arka Kapağı
- 05 B3 Motor Bağlantı Flanşı
- 06 B5 Motor Bağlantı Flanşı
- 07 B14 Motor Bağlantı Flanşı
- 08 Ayak
- 09 Motor Mili (Standart)
- 10 Fan Kapağı
- 11 Fan
- 12 Terminal Kutusu
- 13 Terminal Kutu Kapağı
- 14 Klemens Plakası
- 15 Terminal Contası Alt
- 16 Terminal Contası Üst
- 17 Kablo Grubu
- 18 Ön Rulman
- 19 Arka Rulman
- 20 Keçe (Ön)
- 21 Keçe (Arka)
- 22 Rulman Gergi Yay
- 23 Rakor
- 24 Kama
- 25 Mapa
- 26 Yıldız Başlı Civata
- 27 Yıldız Başlı Civata
- 28 Civata DIN 933
- 29 Civata DIN 933
- 30 Civata DIN 933
- 31 Civata DIN 912
- 32 Somun

- 01 Housing
- 02 Wound Stator
- 03 Rotor
- 04 Nondrive - Endshield
- 05 Flange
- 06 Flange
- 07 Flange
- 08 Foot
- 09 Drive Shaft (standard)
- 10 Fan Cover
- 11 Fan
- 12 Terminal Box
- 13 Terminal Box Cover
- 14 Terminal Plate
- 15 Terminal Gasket Down
- 16 Terminal Gasket Up
- 17 Lead Cables
- 18 Ball Bearing (Drive-Side)
- 19 Ball Bearing (Non-Drive-Side)
- 20 Seal Ring (Front)
- 21 Seal Ring (Back)
- 22 Bearing Shim
- 23 Conduit
- 24 Key
- 25 Eye Bolt
- 26 Pan Head Screws
- 27 Pan Head Screws
- 28 Bolt
- 29 Bolt
- 30 Bolt
- 31 Bolt
- 32 Nut

- 01 Gehäuse
- 02 gewickelter Stator
- 03 Rotor
- 04 B-Lagerschild
- 05 B3 Flansch
- 06 B5 Flansch
- 07 B14 Flansch
- 08 Fuß
- 09 Antriebswelle (standart)
- 10 Lüfterhaube
- 11 Lüfter
- 12 Klemmkasten
- 13 Klemmkastendeckel
- 14 Anschlussplatte
- 15 Klemmkastendichtung unten
- 16 Klemmkastendichtung oben
- 17 Kabelbaum
- 18 Kugellager (Antriebsseite)
- 19 Kugellager (Nicht-Antriebsseite)
- 20 Dichtungsring (Vorne)
- 21 Dichtungsring (Hinten)
- 22 Stützscheibe
- 23 Gewindemuffe
- 24 Passfeder
- 25 Augenschraube
- 26 Kreuzschlitzschraube
- 27 Kreuzschlitzschraube
- 28 Schraube DIN 933
- 29 Schraube DIN 933
- 30 Schraube DIN 933
- 31 Schraube DIN 912
- 32 Schraubenmutter

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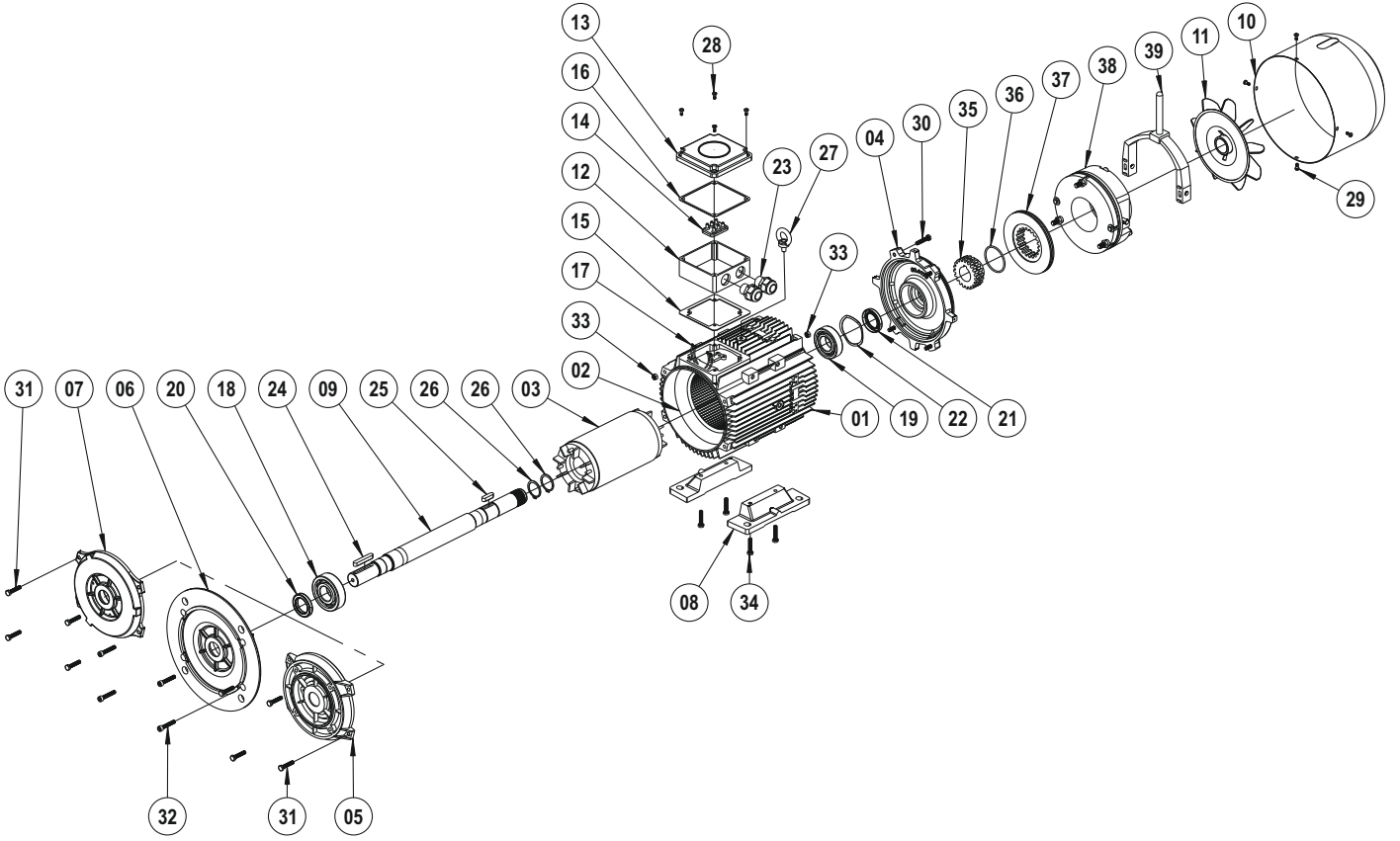
FRENLİ B3-B5-B14 FLANŞLI
MOTOR PARÇA LİSTESİ

EN

BRAKE B3-B5-B14 FLANGE
MOTOR PART LIST

DE

ERSATZTEILLISTE FÜR MOTOR MIT
BREMSE UND B3-B5-B14-FLANSCH



- 01 Gövde
- 02 Sargılı Stator
- 03 Rotor
- 04 Fren Flanşı
- 05 B3 Motor Bağlantı Flanşı
- 06 B5 Motor Bağlantı Flanşı
- 07 B14 Motor Bağlantı Flanşı
- 08 Ayak
- 09 Motor Mili (Standart)
- 10 Fan Kapağı
- 11 Fan
- 12 Terminal Kutusu
- 13 Terminal Kutu Kapağı
- 14 Klemens Plakası
- 15 Terminal Contası Alt
- 16 Terminal Contası Üst
- 17 Kablo Grubu
- 18 Ön Rulman
- 19 Arka Rulman
- 20 Keçe (Ön)
- 21 Keçe (Arka)
- 22 Rulman Gergi Yay
- 23 Rakor
- 24 Kama
- 25 Kama
- 26 Segman
- 27 Mapa
- 28 Yıldız Başlı Civata
- 29 Yıldız Başlı Civata
- 30 Civata DIN 933
- 31 Civata DIN 933
- 32 Civata DIN 912
- 33 Somun
- 34 Civata DIN 933
- 35 Fren Kaplini
- 36 O-Ring
- 37 Fren Balatası
- 38 Fren
- 39 Manuel Kolu

- 01 Housing
- 02 Wound Stator
- 03 Rotor
- 04 Brake Connection Flange
- 05 B3 Flange
- 06 Flange
- 07 Flange
- 08 Foot
- 09 Drive Shaft (standard)
- 10 Fan Cover
- 11 Fan
- 12 Terminal Box
- 13 Terminal Box Cover
- 14 Terminal Plate
- 15 Terminal Gasket Down
- 16 Terminal Gasket Up
- 17 Lead Cables
- 18 Bal Bearing (Drive-Side)
- 19 Bal Bearing (Non-Drive-Side)
- 20 Seal Ring (Front)
- 21 Seal Ring (Back)
- 22 Bearing Shim
- 23 Conduit
- 24 Key
- 25 Key
- 26 Circilip DIN 471
- 27 Eye Bolt
- 28 Pan Head Screws
- 29 Pan Head Screws
- 30 Bolt
- 31 Bolt
- 32 Bolt
- 33 Nut
- 34 Bolt
- 35 Brake Coupling
- 36 O-Ring
- 37 Brake Lining
- 38 Brake
- 39 Hand Release

- 01 Gehäuse
- 02 gewickelter Stator
- 03 Rotor
- 04 Bremsflansch
- 05 B3 Flansch
- 06 B5 Flansch
- 07 B14 Flansch
- 08 Fuß
- 09 Antriebswelle (standart)
- 10 Lüfterhaube
- 11 Lüfter
- 12 Klemmkasten
- 13 Klemmkastendeckel
- 14 Anschlussplatte
- 15 Klemmkastendichtung unten
- 16 Klemmkastendichtung oben
- 17 Kabelbaum
- 18 Kugellager (Antriebsseite)
- 19 Kugellager (Nicht-Antriebsseite)
- 20 Dichtungsring (Vorne)
- 21 Dichtungsring (Hinten)
- 22 Stützscheibe
- 23 Gewindemuffe
- 24 Passfeder
- 25 Passfeder
- 26 Sicherungsring DIN 471
- 27 Augenschraube
- 28 Kreuzschlitzschraube
- 29 Kreuzschlitzschraube
- 30 Schraube DIN 933
- 31 Schraube DIN 933
- 32 Schraube DIN 912
- 33 Schraubenmutter
- 34 Schraube DIN 933
- 35 Kupplung
- 36 O-Ring
- 37 Bremsbelag
- 38 Bremse
- 39 Handauslöser

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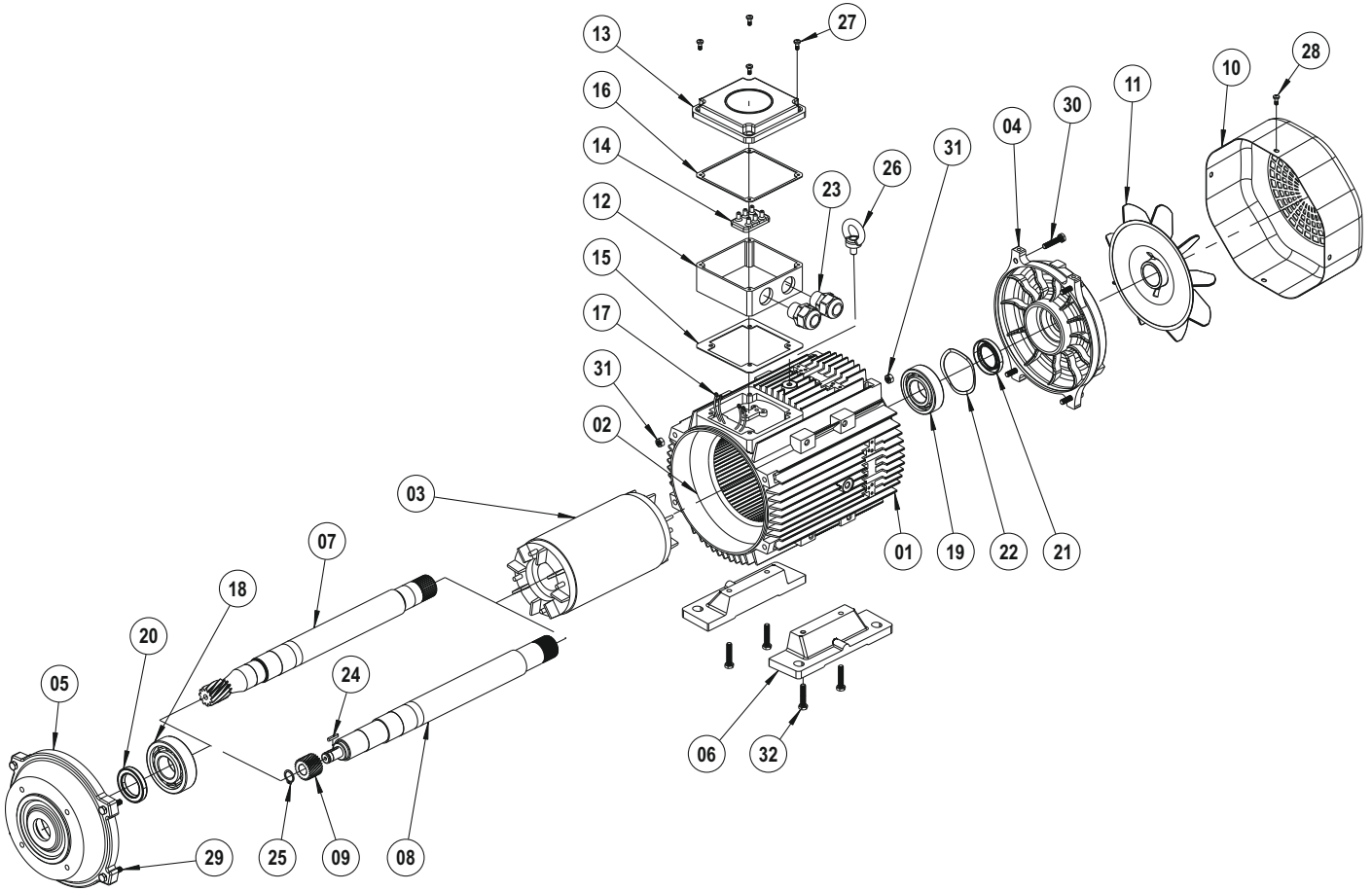
MOTOR PARÇA LİSTESİ

EN

THE MOTOR PART LIST

DE

ERSATZTEILLISTE FÜR MOTOR



- 01 Gövde
- 02 Sargılı Stator
- 03 Rotor
- 04 Motor Arka Kapağı
- 05 PGR Motor Bağlantı Flanşı
- 06 Ayak
- 07 Motor Mili (Yekpare)
- 08 Motor Mili (Çakma)
- 09 Z1 Dişlisi
- 10 Fan Kapağı
- 11 Fan
- 12 Terminal Kutusu
- 13 Terminal Kutu Kapağı
- 14 Klemens Plakası
- 15 Terminal Contası Alt
- 16 Terminal Contası Üst
- 17 Kablo Grubu
- 18 Ön Rulman
- 19 Arka Rulman
- 20 Keçe (Ön)
- 21 Keçe (Arka)
- 22 Rulman Gergi Yayı
- 23 Rakor
- 24 Kama
- 25 Segman
- 26 Mapa
- 27 Yıldız Başlı Civata
- 28 Yıldız Başlı Civata
- 29 Civata DIN 933
- 30 Civata DIN 933
- 31 Somun
- 32 Civata DIN 933

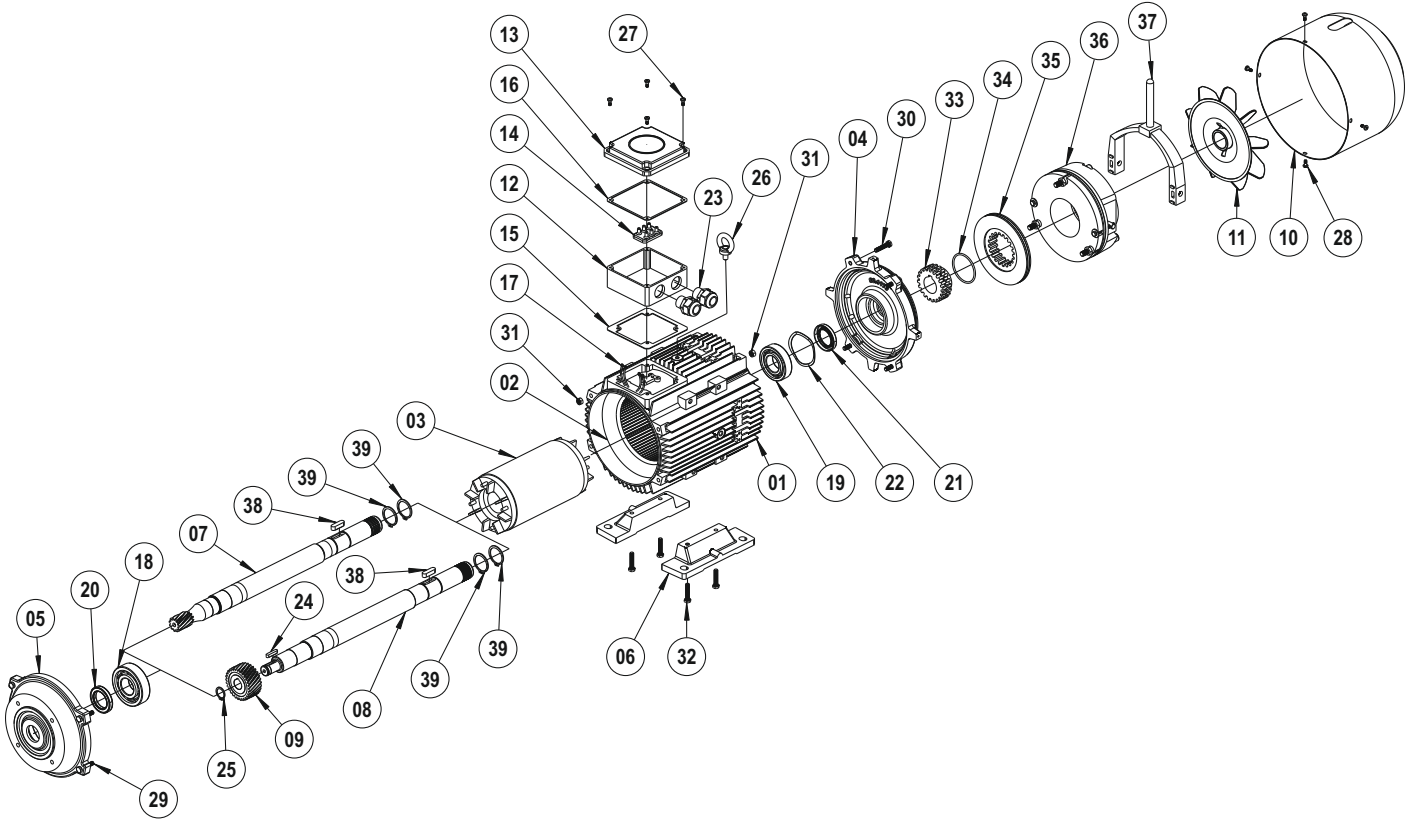
- 01 Housing
- 02 Wound Stator
- 03 Rotor
- 04 Nondrive - Endshield
- 05 Motor Connection Flange
- 06 Foot
- 07 Drive Shaft (Gearcut)
- 08 Drive Shaft (Plain)
- 09 Z1 Gear
- 10 Fan Cover
- 11 Fan
- 12 Terminal Box
- 13 Terminal Box Cover
- 14 Terminal Plate
- 15 Terminal Gasket Down
- 16 Terminal Gasket Up
- 17 Lead Cables
- 18 Ball Bearing (Drive-Side)
- 19 Ball Bearing (Non-Drive-Side)
- 20 Seal Ring (Front)
- 21 Seal Ring (Back)
- 22 Bearing Shim
- 23 Conduit
- 24 Key
- 25 Circlip DIN 471
- 26 Eye Bolt
- 27 Pan Head Screws
- 28 Pan Head Screws
- 29 Bolt
- 30 Bolt
- 31 Nut
- 32 Bolt

- 01 Gehäuse
- 02 gewickelter Stator
- 03 Rotor
- 04 B-Lagerschild
- 05 Motor-Anschlussflansch
- 06 Fuß
- 07 Antriebswelle (verzahnt)
- 08 Antriebswelle (glatt)
- 09 Antriebsritzel
- 10 Lüfterhaube
- 11 Lüfter
- 12 Klemmkasten
- 13 Klemmkastendeckel
- 14 Anschlussplatte
- 15 Klemmkastendichtung unten
- 16 Klemmkastendichtung oben
- 17 Kabelbaum
- 18 Kugellager (Antriebsseite)
- 19 Kugellager (Nicht-Antriebsseite)
- 20 Dichtungsring (Vorne)
- 21 Dichtungsring (Hinten)
- 22 Stützscheibe
- 23 Gewindemuffe
- 24 Passfeder
- 25 Sicherungsring DIN 471
- 26 Augenschraube
- 27 Kreuzschlitzschraube
- 28 Kreuzschlitzschraube
- 29 Schraube DIN 933
- 30 Schraube DIN 933
- 31 Schraubenmutter
- 32 Schraube DIN 933

TR FRENLİ MOTOR PARÇA LİSTESİ

EN THE MOTOR PART LIST WITH BRAKE

DE ERSATZTEILLISTE FÜR MOTOR MIT BREMSE

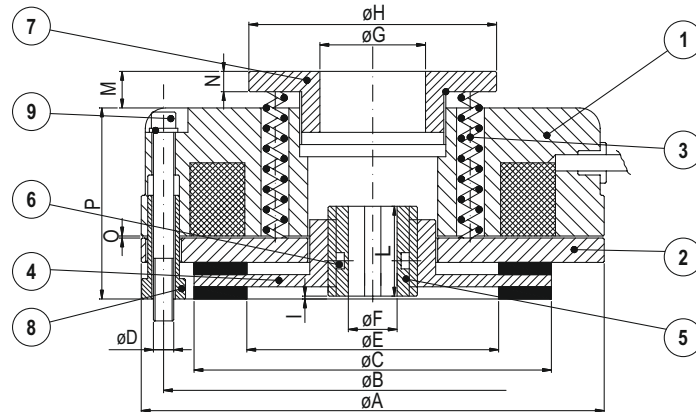


- 01 Gövde
- 02 Sargılı Stator
- 03 Rotor
- 04 Fren Flanşı
- 05 PGR Motor Bağlantı Flanşı
- 06 Ayak
- 07 Motor Mili (Yekpare)
- 08 Motor Mili (Çakma)
- 09 Z1 Dişlisi
- 10 Fan Kapağı
- 11 Fan
- 12 Terminal Kutusu
- 13 Terminal Kutu Kapağı
- 14 Klemens Plakası
- 15 Terminal Contası Alt
- 16 Terminal Contası Üst
- 17 Kablo Grubu
- 18 Ön Rulman
- 19 Arka Rulman
- 20 Keçe (Ön)
- 21 Keçe (Arka)
- 22 Rulman Gergi Yay
- 23 Rakor
- 24 Kama
- 25 Segman
- 26 Mapa
- 27 Yıldız Başlı Civata
- 28 Yıldız Başlı Civata
- 29 Civata DIN 933
- 30 Civata DIN 933
- 31 Somun
- 32 Civata DIN 933
- 33 Fren Kaplini
- 34 O-Ring
- 35 Fren Balatası
- 36 Fren
- 37 Manuel Kolu
- 38 Kama
- 39 Segman

- 01 Housing
- 02 Wound Stator
- 03 Rotor
- 04 Brake Connection Flange
- 05 Flange
- 06 Foot
- 07 Drive Shaft (Gearcut)
- 08 Drive Shaft (Plain)
- 09 Z1 Gear
- 10 Fan Cover
- 11 Fan
- 12 Terminal Box
- 13 Terminal Box Cover
- 14 Terminal Plate
- 15 Terminal Gasket Down
- 16 Terminal Gasket Up
- 17 Lead Cables
- 18 Ball Bearing (Drive-Side)
- 19 Ball Bearing (Non-Drive-Side)
- 20 Seal Ring (Front)
- 21 Seal Ring (Back)
- 22 Bearing Shim
- 23 Conduit
- 24 Key
- 25 Circlip DIN 471
- 26 Eye Bolt
- 27 Pan Head Screws
- 28 Pan Head Screws
- 29 Bolt
- 30 Bolt
- 31 Nut
- 32 Bolt
- 33 Coupling
- 34 O-Ring
- 35 Brake Lining
- 36 Brake
- 37 Hand Release
- 38 Key
- 39 Circlip DIN 471

- 01 Gehäuse
- 02 gewickelter Stator
- 03 Rotor
- 04 Bremsflansch
- 05 Motor-Anschlussflansch
- 06 Fuß
- 07 Antriebswelle (verzahnt)
- 08 Antriebswelle (glatt)
- 09 Antriebsritzel
- 10 Lüfterhaube
- 11 Lüfter
- 12 Klemmkasten
- 13 Klemmkastendeckel
- 14 Anschlussplatte
- 15 Klemmkastendichtung unten
- 16 Klemmkastendichtung oben
- 17 Kabelbaum
- 18 Kugellager (Antriebsseite)
- 19 Kugellager (Nicht-Antriebsseite)
- 20 Dichtungsring (Vorne)
- 21 Dichtungsring (Hinten)
- 22 Stützscheibe
- 23 Gewindemuffe
- 24 Passfeder
- 25 Sicherungsring DIN 471
- 26 Augenschraube
- 27 Kreuzschlitzschraube
- 28 Kreuzschlitzschraube
- 29 Schraube DIN 933
- 30 Schraube DIN 933
- 31 Schraubenmutter
- 32 Schraube DIN 933
- 33 Kupplung
- 34 O-Ring
- 35 Bremsbelag
- 36 Bremse
- 37 Handauslöser
- 38 Passfeder
- 39 Sicherungsring DIN 471

TR FREN PARÇA LİSTESİ	EN BRAKE PART LIST	DE BREMSE-TEILELISTE
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- 1 Elektromagnat
- 2 Endüvi plakası
- 3 Tork yayı
- 4 Disk
- 5 Kamalı burç
- 6 O-ring
- 7 Ayar halkası
- 8 Ayar somunu
- 9 Bağlantı civataları

- 1 Electromagnet
- 2 Armature plate
- 3 Torque springs
- 4 Disc
- 5 Splined hub
- 6 O-ring
- 7 Adjuster rings
- 8 Adjuster nuts
- 9 Fixing screws

- 1 Elektromagnet
- 2 Ankerplatte
- 3 Bremsfeder
- 4 Scheibe
- 5 Nabe
- 6 O-Ring
- 7 Einstellring
- 8 Einstellschraube
- 9 Feststellschraube

Tip / Type / Typ Fren Modeli / Brake Model / Bremsmodell	K1	K2	K3	K4	K5	K6	K7	K7/D	K8	K8/D	K9	K9/D	K9/T
Statik Fren Momenti / Static Braking Torque / Statisches Bremsmoment (Nm)	5	12	16	20	40	60	90	180	200	400	300	600	900
Motorun Max. Hızı / Max Speed of the motor / Höchstgeschwindigkeit des Motors (rpm)	3000	3000	3000	3000	3000	3000	3000	3000	1500	1500	1500	1500	1500
Giriş Gücü / Input Power / Eingangsleistung (W)	15	20	25	30	45	50	55	55	60	60	65	65	65
Max. Ses / Max noisiness / Maximale lautheit (≤dB-A)	68	69	68	69	70	70	70	70	70	69	69	69	70
Ağırlık / Weight / Gewicht (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 Tolerance hole till size K3 H7, others + 0,01/-0,01 Bohrungstoleranz bis Grösse K3 H7, andere + 0,01/-0,01	E	35	44	62	69	79	80	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.

Notizen : Bevor die Bremse eingefahren ist, kann das statische Bremsmoment um etwa ± 20 % vom Tabellenwert abweichen.



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