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DRIVE TECHNOLOGIES

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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 sağılığı ve güvenliği ve Kalite yönetim sistemleri konusunda bilinçlendirmeyi;
- Çalışan sağlığının ve çevrenin korunması için çalışmaları mızı 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 Marktanteilsstabilität 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 Produktpalletten im höchsten Zustand zu übertreffen. Unsere Entwurfstätigkeiten und Produktentwicklungsprogramme und EDV unterstützten Arbeitsprozesse zeigen eine steigernde Grafik. Unsere wettbewerbsfähige und kräftige Qualitätspolitik vergrößert unseren Kundenumfang weiter.

TR TEKNİK BİLGİLER

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 ünitede 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 ≤ 0.25 ise düzgün çalışma yük sınıfı (U), 0.25 < maf ≤ 3 ise orta darbeli yük sınıfı (M) ve 3 < maf ≤ 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 5'deki diyagram 1 kullanılarak mekanik yönden gerekli servis faktörü değeri bulunur.

2.Termal Limit Kontrolü
Redüktörde bazı çalışma koşullarında aşırı ısınma gözlenebilir. 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 aşılmaması 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.

EN TECHNICAL INFORMATION

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 importonce. When using equipments which are not adviced 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 ≤ 0.25 it is Uniform application(U)
0.25 < maf ≤ 3 it is Moderate impact application(M)
3 < maf ≤ 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 5 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 wil be possible to increase the thermal power values with additional coolers like fan, coil, heat exchanger, radiator, etc.,and they should be 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.

DE TECHNISCHE INFORMATION

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 Getriebesbesteht, 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 unda us dem Massenbeschleunigungsfaktor (maf).
Bei maf ≤ 0,25 gleichmäßiger Betrieb (U),
bei 0,25 < maf ≤ 3 ungleichmäßiger Betrieb (M)
und bei 3 < maf ≤ 10 stark ungleihmäßiger 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 5 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, Serpentinen 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 olabilmesidir.

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 temerature 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 healtier 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 montaged. 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 t he 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 Frequenzumrichter betrieben wird. Im Gegensatz zum Wechselstrommotor beeinflussen seltene Drehmoment-effekte 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-Stopps pro Stunde und Betriebsfaktor.

TR SERVİS FAKTÖRÜ

Diyagram 1 günlük çalışma zamanına (saat), saatteki start sayısına ve uygulanılan 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 kütlesel 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 fB kullanılan sürücü (tahrik) tipine göre "k" katsayısı ile çarpılır.

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

EN SERVICE FACTOR

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 fB 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

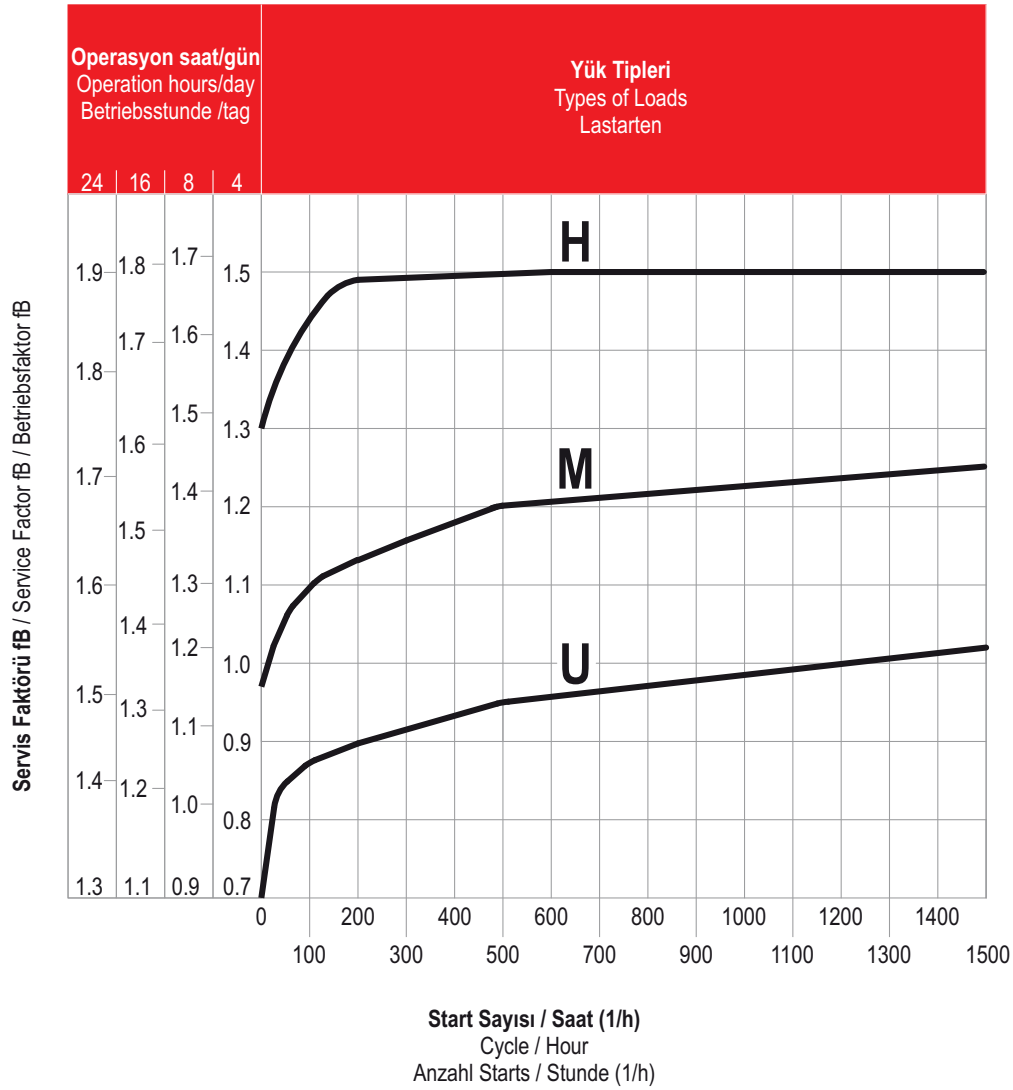
DE SERVICEFAKTOR

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 fB 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



TR TEKNİK BİLGİLER

Yük Sınıfının Belirlenmesi:

U) Düzgün çalışma
Küçük karıştırıcılar, asansörler, konveyörler, montaj bantları, doldurma makinaları, bantlı konveyörler, temizleme makinaları, fanlar, test makinaları, santrifüj 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 mekaniz maları, vinçler, kayar kapılar, balans makinaları, paketleme makinaları, dişli pompalar, santrifüj 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, santrifüj makinaları, döner tablalar, ağır yük vinç ve asansörler, plaka-silindir-soğuk haddeleme makinaları, hız ayarlı sabit silindirler, kağıt hamur makinaları, kurutma silindirleri, perdahlama 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.

EN TECHNICAL INFORMATION

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) Modarate 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, balacing machines, packaging machines, gear pumps, centrifugal pumps, valve turning gears, weaving looms, carding-machines, treshing machines, granulation vats, corrianders, agitators, drying rollers.

H) Heavy shocks, non-uniform application
Stone crushers, eccentric press machines, choppers, press machines, gridingmills, hammmer mills, shredders, heavy mixers, boring machines, folding machines, turning looms, horizontal mixers, cutters, vibrators, centrifugal machines, heavy cranes and elevators, plate-cyclinder-cold extrusion machines, fixed cyclinder with regulated velocity, sluch machines, drying cyclinders, polishing cyclinders,

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.

DE TECHNISCHE INFORMATION

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, Zahnradpumpen, Kreiselpumpen (Halbflüssigkeitspumpen), Ventildrehvorrichtungen, Webstühle, Putzereimaschinen, Dreschmaschinen, Granulier-(Debegat-) Behälter, Siebe, Rührwerke, Trockenwalzen.

H) Starke Stöße, stark ungleichmäßiger Betrieb
Steinbrecher, Exzenterpressen, Häcksler, Pressen, Mahlspindeln, Hammerbrecher, Aktenvernichter, Hochleistungsmischer, Stanzmaschinen, Abkantmaschinen, Rundtische, Horizontalmischer, Schneidgeräte, Vibratoren Zentrifugen, Rundtische, Schwerlastkräne und Aufzüge, Plattenzylinder - Kaltwalzmaschinen, geschwindigkeitsregulierbare Festwalzen, Auflösemaschinen, Trockenwalzen, Kalanderwalzen.

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	$m_{af} \leq 0.25$
M	Düzgün olmayan çalışma / Non-uniform application / ungleichmäßiger Betrieb	$0.25 < m_{af} \leq 3$
H	Aşırı düzgün olmayan çalışma / Extreme non-uniform application / stark ungleichmäßiger Betrieb	$3 < m_{af} \leq 10$

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

i_{ges} = 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

Kütlesel ivme faktörü maf, çıkış tarafındaki dış kütleler ile giriş tarafındaki yüksek hızlı kütlelerin arasındaki ilişkiyi gösterir.
Kütlesel ivme 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 kütlesel yükü oluşturur. Eğer maf >10 ise transfer elemanlarında büyük deplasman (yük değiştirme) var ise ya da yük sınıflandırmamızda bir belirsizlik var ise PGR'ye danışınız. Bu ve benzeri hususlarla belirli şüpheleriniz var ise PGR'ye danışınız.

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

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.

i_{ges} = Getriebeübersetzung
$J_{ex.red}$ = alle externen Massenträgheitsmomente auf Antriebsmotor reduziert
J_{ex} = alle externen Massenträgheitsmomente
J_{mot} = Massenträgheitsmoment des Motors

Der Massenbeschleunigungsfaktor maf stellt das Verhältnis von externen abtriebsseitigen und schnelllaufenden 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.

TR TEKNİK BİLGİLER

Dişli Ünitesini Seçme

Helisel-sonsuz dişlili redüktörlerin kulanıldığı sistemler tasarlanırken; Harici tork darbelerinin oluştuğu, yüksek hızlanma faktörünün oluştuğu durumlarda düşük miktarda oto-blokaj sağladığı göz önünde bulundurulmalıdır.

Sonsuz kısımdaki dişli sayıları oranı Z2 / Z1 IEC-PAM seçim tablolarında listelenmiştir.

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

Helisel - sonsuz dişlili redüktörlerde Diyagram 1'deki f_B'nin yanısıra dış ortam sıcaklığına göre (T_U) değişen f_{B1} ayrıca saat başına çalışma yüzdesine göre (ED) değişen f_{B2} göz önünde bulundurulmalıdır. f_{B1} ve f_{B2} servis faktörleri Diyagram 2 ve 3'ten bulunabilir.

Doğru bir redüktör seçimi için olması gereken servis faktörü Diyagram 1'den bulunan servis faktörü (f_B); Diyagram 2'den bulunan servis faktörü (f_{B1}) ve Diyagram 3'den bulunan servis faktörünün (f_{B2}) çarpımlarından büyük ya da eşit olmalıdır.

W kovanlı helisel-sonsuz dişlili redüktörler için güç aşağıdaki formüle göre hesaplanır.

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

$P_1 \leq P_{1max}$

W, IEC ve PAM seçim tablolarında her bir çıkış devri (n_2) için maksimum çıkış torku (M_{amax}), maksimum motor gücü (P_{1max}) ve redüktör verimi (η) listelenmiştir.
Redüktör verimi yukarıda verilen formülasyona göre dahil edilmelidir.

Örneğin, yüzde 90 verimle çalışan bir redüktörde verim $\eta = 0,9$ olmalıdır.
%90 → 0,9

EN TECHNICAL INFORMATION

Selection of the Gear Unit

Designing systems using helical worm gears, it should be considered that in cases where external torque pulses occur and high acceleration factor occurs, low auto-blocking is provided.

The ratio Z2/Z1 of the number of teeth in the worm gear is specified in the IEC-PAM selection tables.

$m_{af} \leq 0.25$ all numbers of worm threads are possible.
$m_{af} \leq 3$ numbers of worm threads $Z_1 \geq 3$ is recommended.
$m_{af} \leq 10$ numbers of worm threads $Z_1 \geq 6$ is recommended.

For helical worm gears should be considered in addition to f_B from diagram 1, f_{B1}, which changes according to the outside temperature (T_U) and f_{B2}, which changes according to the operating percentage per hour (ED). Service factors f_{B1} and f_{B2} can be found in diagram 2 and 3.

The service factor required for a correct gear unit selection should be greater than or equal to the product of service factor (f_B) from diagram 1, service factor (f_{B1}) from diagram 2 und service factor (f_{B2}) from diagram 3.

Power is calculated for helical worm gears with W drive according to the formula below.

The maximum input power shall not exceed P_{1max}.

$P_1 \leq P_{1max}$

The W, IEC and PAM selection tables list the maximum output torque (M_{amax}), maximum motor power (P_{1max}) and gear unit efficiency (η) for each output speed (n_2).
The gear unit efficiency shall be included according to the above formula.

For example, a gear unit operating at 90 percent efficiency should have an efficiency of $\eta = 0,9$.
%90 → 0,9

DE TECHNISCHE EIGENSCHAFTEN

Auswahl des Getriebes

Beim Entwurf von Systemen, die Stirnrad-Schneckengetriebe verwenden, sollte berücksichtigt werden, dass in Fällen, in denen externe Drehmomentenimpulse auftreten und ein hoher Beschleunigungsfaktor auftritt, eine geringe Selbstblockierung geboten wird.
Das Verhältnis Z2/Z1 der Zähnanzahl im Schneckengetriebe ist in den IEC-PAM-Auswahltabellen aufgeführt.

$m_{af} \leq 0.25$ alle Schneckengangzahlen möglich.
$m_{af} \leq 3$ Schneckengangzahlen $Z_1 \geq 3$ empfohlen.
$m_{af} \leq 10$ Schneckengangzahlen $Z_1 \geq 6$ empfohlen.

Bei Stirnrad - Schneckengetrieben sollte neben f_B aus Diagramm 1, f_{B1}, welches sich je nach Außentemperatur (T_U) ändert und f_{B2}, welches sich je nach Betriebsprozentsatz pro Stunde (ED) ändert berücksichtigt werden. Betriebsfaktor f_{B1} und f_{B2} finden Sie in Diagramm 2 und 3.

Der für eine korrekte Getriebeauswahl erforderliche Betriebsfaktor sollte größer oder gleich dem Produkt aus Betriebsfaktor (f_B) aus Diagramm 1, Betriebsfaktor (f_{B1}) aus Diagramm 2 und Betriebsfaktor (f_{B2}) aus Diagramm 3 sein.

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

Bei Stirnrad-Schneckengetrieben mit W-Antrieb errechnet sich die Leistung nach untenstehender Formel.

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

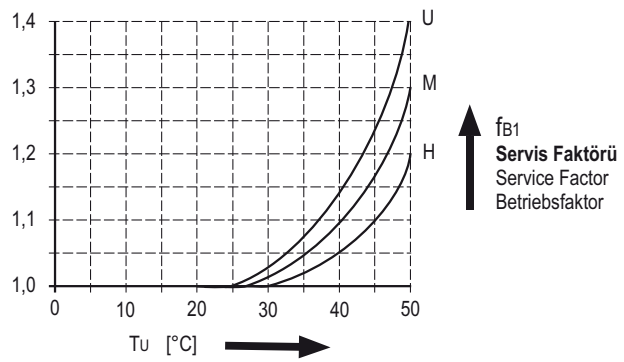
M_{amax} [Nm]
n_2 [min^{-1}]

Die maximale Antriebskraft darf P_{1max} nicht überschreiten.

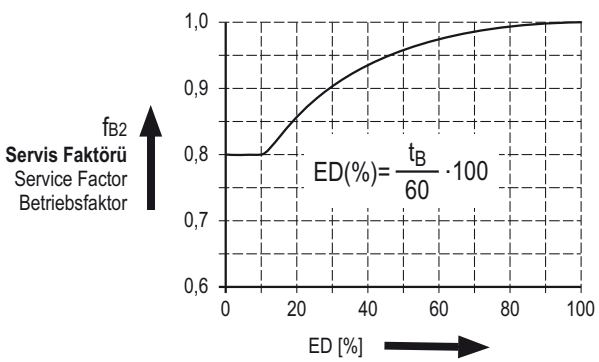
$P_1 \leq P_{1max}$

In den Auswahltabellen W, IEC und PAM sind für jede Abtriebsdrehzahl (n_2) das maximale Abtriebsdrehmoment (M_{amax}), die maximale Motorleistung (P_{1max}) und der Getriebewirkungsgrad (η) aufgeführt.
Der Getriebewirkungsgrad ist nach der obigen Formel einzubeziehen.
Beispielsweise sollte bei einem Getriebe, das mit 90 Prozent Wirkungsgrad in Betrieb ist, der Wirkungsgrad $\eta = 0,9$ betragen.
%90 → 0,9

Diyagram / Diagram / Diagramm - 2



Diyagram / Diagram / Diagramm - 3



ED: Döngüsel süre faktörü
Cyclic time factor
Zyklischer Zeitfaktor

tB: Yükleme süresi (dakika/ saat)
Loading time (minutes/hour)
Ladezeit (Minuten/Stunde)

TR TEKNİK BİLGİLER

Verim (η):

PSH serisi helisel-sonsuz dişli redüktörler % 92'ye varan verimlilik sağlarlar. Sonsuz dişlilerde verimlilik redüktör çalıştıkça artacaktır.
Sürtünme redüktör çalıştıkça azalacaktır. Bu sayede verimlilik redüktör çalıştıkça artacaktır.

Daha düşük eğim açılarında, verimi düşüren bu etki artar.
Daha düşük eğim açısı, daha az başlangıç sayısı demektir.
Deneyimlere dayalı olarak yüzdesel verim düşüşleri aşağıdaki gibidir.

EN TECHNICAL INFORMATION

Efficiency (η):

PSH series helical worm gear units offer an efficiency up to 92%. The efficiency of worm gear units increases as the gear unit is running.
The friction will decrease as the gear unit is running. This will increase the efficiency as the gear unit is running.

At lower angles of inclination, the efficiency-reducing effect is increased. A lower angle of inclination means less starts.
Experience-based percentages of efficiency losses are as follows.

DE TECHNISCHE EIGENSCHAFTEN

Wirkungsgrad (η):

Stirnrad-Schneckengetriebe der PSH-Serie bieten einen Wirkungsgrad von bis zu 92%. Der Wirkungsgrad bei Schneckengetrieben steigt bei laufendem Getriebe.
Die Reibung nimmt bei laufendem Getriebe ab. Somit steigt der Wirkungsgrad bei laufendem Getriebe.

Bei niedrigeren Neigungswinkeln verstärkt sich der wirkungsgradmindernde Effekt. Ein geringerer Neigungswinkel bedeutet weniger Starts. Erfahrungsbasierte prozentuale Wirkungsgradverluste sind wie folgt.

Helisel - Sonsuz Çalışması Operation of the helical worm gear unit Betrieb des Stirnrad-Schneckengetriebes	**Verimdeki Düşüş** Efficiency loss Wirkungsgradverlust
1. Dişli / Gear / Antriebsritzel ~	% 12
2. Dişli / Gear / Antriebsritzel ~	% 6
3. Dişli / Gear / Antriebsritzel ~	% 3
6. Dişli / Gear / Antriebsritzel ~	% 2

Sonsuz dişlideki diş sayıları, W, IEC ve PAM seçim tablolarında listelenmiştir. Alıştırma prosedürü 25 saat operasyonel maksimum yükte çalışmanın ardından tamamlanır.

Tablolardaki verimlere ulaşmak için aşağıdaki koşulların sağlanması gerekir:

- Helisel sonsuz dişlili redüktör devamlı çalıştırılmalı,
- Helisel sonsuz dişlili redüktör belirli bir sabit sıcaklığa ulaşmış olmalı,
- Helisel sonsuz dişlili redüktör olması gereken yağlama seviyesine kadar doldurulmalı,
- Nominal tork değerinin dişlili redüktör için sağlandığı teyit edilmelidir.

The number of gears of worm gear units are listed in the selection tables W, IEC and PAM. The start-up process is completed after 25 hours of running at operational maximum load.

The following conditions must be met to achieve the efficiencies in the tables:

- The helical worm gear unit should be operated continuously.
- The helical worm gear unit should have reached a certain constant temperature.
- The helical worm gear unit should be filled to the required lubricant level.
- It should be confirmed, that the nominal torque is provided for the gear unit.

Die Zähneanzahl der Schneckengetriebe sind in den Auswahltabellen W, IEC und PAM aufgeführt. Der Einfahrvorgang ist nach 25 Stunden Betrieb bei maximaler Betriebsbelastung abgeschlossen.

Um die Wirkungsgrade in den Tabellen zu erreichen, müssen folgende Bedingungen erfüllt werden:

- Das Stirnrad-Schneckengetriebe sollte kontinuierlich in Betrieb sein.
- Das Stirnrad-Schneckengetriebe sollte eine gewisse konstante Temperatur erreicht haben.
- Das Stirnrad-Schneckengetriebe sollte bis zum erforderlichen Schmiermittelstand befüllt werden.
- Es sollte bestätigt werden, dass das Nenndrehmoment für das Getriebe sichergestellt ist.

TR TEKNİK BİLGİLER

Radyal 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 koşuluna dayanmaktadır.

Ayrıca motorlu seçim tablolarında yer alan radyal ve eksenel kuvvet değerleri sistemin servis faktörünün (fB=1) bire eşit olduğu durum için verilmiştir. Darbeli yükler, darbeli tekrarlı yükler, uzun süreli çalışmalı (>8 saat/gün) gibi uygulamalarda servis faktörünün (fB>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.

EN TECHNICAL INFORMATION

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 (fB=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 (fB>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.

DE TECHNISCHE INFORMATION

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 (fB=1) zugrunde. Bei stoßartigen Kräften und längeren Laufzeiten > 8 Stunden/Tag) ist auch für die Quer- und Axialkräfte ein entsprechender Betriebsfaktor (fB>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.

fz için Tablo

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

fz values are shown at table

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

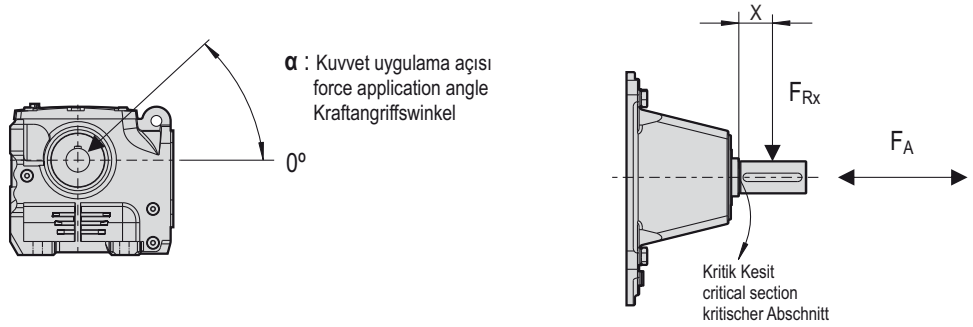
Querkraft-Faktor fz

Übertragungselemente	Faktor fz	Hinweise
Zahnräder	1.1	z ≤ 17 Zähne
Kettenräder	1.4	z ≤ 13 Zähne
Kettenräder	1.2	z ≤ 20 Zähne
Schmalkeilriebenscheiben	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 wind gemäß dem folgenden Bild definiert.



F_{Rx} : "X" Uygulama noktasındaki müsaade edilen radyal kuvvet [N]
F_A : Müsaade edilen eksenel kuvvet [N]

F_{Rx} : Permitted overhung load at point [N]
F_A : Permitted axial force [N]

F_{Rx} : zulässige Querkraft bei Abstand [N]
F_A : zulässige Axialkraft [N]

TR TEKNİK BİLGİLER

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

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]
$F_{R\ vorth}$: Mil üzerindeki radyal kuvvet [kN]

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.

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

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.

EN TECHNICAL INFORMATION

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

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

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

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

Formül / Formula / Gleichung - I

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

Formül / Formula / Gleichung - II

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

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

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

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.

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
$F_{R\ vorth}$: (kN) vorhandene Querkraft an der Getriebewelle

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

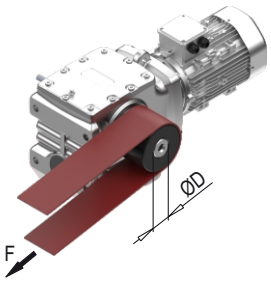
X : Abstand von Wellenbund bis Kraftangriff (mm)
F_{RXW} : zul. Querkraft an Stelle x Wellenfestigkeit
F_R : Querkraft aus Drehzahl- und Leistungstabelle, Kraftangriff auf Wellenmitte (kN)
F_{RXL} : zul. Querkraft an Stelle x Lagerlebensdauer
z,y,f : Faktoren siehe Tabelle
c : Faktoren siehe Tabelle

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

TR RADYAL YÜK HESABI

EN CALCULATION OF RADIAL LOADS

DE BERECHNUNG VON QUERKRAFT



RADYAL YÜKLERİN HESABI

Radyal yük F(N)' nun 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

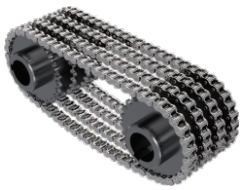
Abweichungen im Betrieb gewährleisten die Sicherheit der Kupplung. Kräfte können vernachlässigt werden.

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

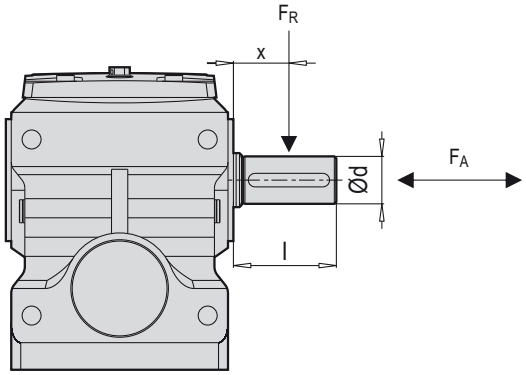
6 - Spannrollenriemen

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

TR RADYAL YÜK HESABI

EN CALCULATION OF RADIAL LOADS

DE BERECHNUNG VON QUERKRAFT



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

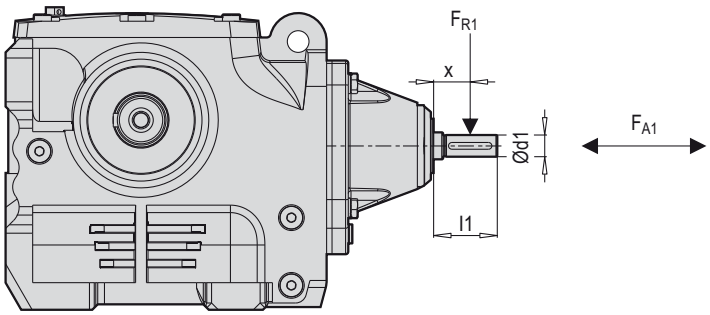
Redüktör Tipi Gearbox Type Reduzierertyp	**y** (mm)	**z** (mm)	**c Normal** Normal (Nmm)	**CGR Güçlendirilmiş /** Reinforced / Verstärkt (Nmm)	**f** (mm)	**d** (mm)	**l** (mm)
PSH 2040	99.5	115.5	0.07×10^6	–	0	20	40
PSH 2050, PSH 3050	104.0	129.0	0.12×10^6	0.19×10^6	0	25	50
PSH 2063, PSH 3063	118.5	148.5	0.19×10^6	0.30×10^6	0	30	60
PSH 2080, PSH 3080	150.0	185.0	0.21×10^6	0.41×10^6	0	35	70
PSH 2100, PSH 3100	179.0	224.0	0.51×10^6	0.94×10^6	0	45	90
PSH 2125, PSH 3125	233.5	293.5	1.33×10^6	2.19×10^6	0	60	120

y - z - c - CGR - f 10

TR RADYAL YÜK HESABI | EN CALCULATION OF RADIAL LOADS | DE BERECHNUNG VON QUERKRAFT

- W ADAPTÖR

- W ADAPTER



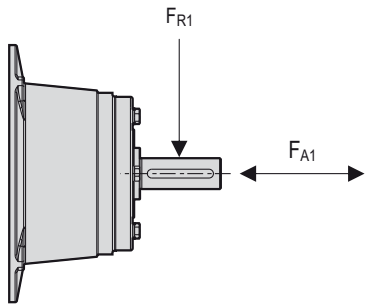
GİRİŞ ŞAFTINDAKİ RADYAL VE EKSENEL YÜK HESAPLAMALARI İÇİN DEĞERLER VALUE TABLE FOR RADIAL AND AXIAL LOADS AT INPUT SHAFT WERTE FÜR QUER UND AXIALKRAFT AN DER EİNGANGSWELLE					f=0
Redüktör Tipi Gearbox Type Reduzierertyp	**y** **(mm)**	**z** **(mm)**	**c** **(Nmm)**	**d1** **(mm)**	**l1** **(mm)**
PSH 2040	58.5	78.5	0.037×10^6	16	40
PSH 2050 **PSH 2063** **PSH 2080** **PSH 3050** **PSH 3063** **PSH 3080** **PSH 3100**	70.0	90.0	3.64×10^4	16	40
PSH 2100 **PSH 3125**	96.5	121.5	1.07×10^5	24	50
PSH 2125	110.5	150.5	4.70×10^5	38	80

y - z - c 10

TR RADYAL YÜK HESABI | EN CALCULATION OF RADIAL LOADS | DE BERECHNUNG VON QUERKRAFT

- W ADAPTÖR

- W ADAPTER



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

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

9

TR KISALTMALAR

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

EN ABBREVIATIONS

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

DE ABKÜRZUNGEN

f_B	= Betriebsfaktor (Mamax / Ma)
F_A	= zulässige axiale Belastung auf der Abtriebsseite [kN]
F_R	= Querkraft aus Drehzahl- Leistungstabellen, Kraftangriff auf Wellenmitte[kN]
F_D	= Reaktionsbelastung [kN]
i_{total}	= Gesamtübersetzungsverhältnis
i_{ges}	= Übersetzungsverhältnis
M_2	= Abtriebsdrehmoment [Nm]
M_{amax}	= zul. Maximale Drehmoment [Nm]
n_2	= Abtriebsdrehzahl [min^{-1}]
P_e	= Mit der Referenz Mamax berechnete Leistung [kW]
P_n	= Motorleistung [kW]
η	= Leistung [%]
kg	= Gewicht des Getriebes

TR PSH TANITIMI

HELİSEL - SONSUZ DİŞLİLİ REDÜKTÖRLER (PSH)

Polat Group Redüktör ürünü olan Helisel-Sonsuz dişlili (PSH) serisi 6 farklı gövde büyüklüğü ile hizmete sunulmaktadır.
Redüktörler;
- PSH 2040...2125 arası 2 kademeli redüktörlere indirgeyici gövde montajlanarak 3 kademeli (PSH 3050 … 3125) olarak sunulmaktadır.

Her bir gövde büyüklüğümüz için ayaktan ve flanştan montaj opsiyonumuz mevcuttur. Helisel - sonsuz dişlili redüktörler motor mili ile çıkış şaftı arasında 90° açı olan redüktörlerdir. Bu tasarım yapısı sayesinde çeşitli uygulamalarda farklı faydalı özellikler sunmaktadır.

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 torka maruz kalabilen redüktör gövdemizin üzerinde ayrı bağlantı elemanı yoktur. Unicase prensibi şaft eksenlerinin kademeli olmasına izin verir, bu da daha uzun bir çalışma ömrünü garanti etmek için daha büyük yataklama elemanı (rulman) kullanma olanağı sunar. Unicase prensibinin getirdiği hassas mil (şaft) hizalaması ve yüksek yükleme 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. Pik / 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 kademenin bağımsız olarak verimliliği bu değerler arasındadır) dişli ünitelerimizce sunulmaktadır. PSH redüktörlerimizde bu durum farklıdır.

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 ısıl 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 taşırken 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. PSH serisi redüktörlerimiz her türlü endüstriyel uygulamada kullanılabilmektedir.

EN DESCRIPTION OF PSH

HELICAL - WORM GEAR UNIT (PSH)

Polat Worm Gear (PSH) series, a product of PGR, have 6 different body sizes.

Gear Units;
- Gear units from PSH 2040 to 2125 can be made 3 stage (From PSH 3050 to 3125) by using reductive case.

We have case and foot mounting options for each of our body sizes. Helical - worm gear reducers are gear units with a 90° angle between the motor shaft and the output shaft. Thanks to this design structure, it offers different useful features in various applications.

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). This situation is different in our PSH reducers.

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 PSH series gear units can be used in all kinds of industrial applications.

DE PSH-EINFÜHRUNG

STIRNRAD-SCHNECKENGETRIEBE (PSH)

Ein Produkt der Polat Group Stirnrad-Schneckengetriebe (PSH)-Serie, wird mit 6 verschiedenen Gehäusegrößen angeboten.
Getriebe:
- durch Montage von Reduziergehäuse an 2-stufige Getriebe zwischen PSH 2040 und PSH 2125, 3-stufig zwischen PSH 3050 und 3125
Für all unsere Gehäusegrößen sind Optionen mit Fuß- und Flanschbefestigung vorhanden. Stirnrad-Schneckengetriebe sind Getriebe mit einem Winkel von 90° zwischen der Motorwelle und der Abtriebswelle. Dank dieser Designstruktur bietet es verschiedene nützliche Funktionen in verschiedenen Anwendungen.

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 Wiederstandsfähigkeit. 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). Anders verhält es sich bei unseren PSH-Reduzieren.

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, hoche Festigkeit und lange Lebensdauer aus. Dies bringt sicheres Arbeiten unter schwierigen Arbeitsbedingungen mit sich. Unsere Getriebe der Baureihe PSH können in allen Arten von Industrieanwendungen eingesetzt werden.

TR PSH TANITIMI

Motorlu ya da motorsuz seçeneklerde, W kovanlı, PAM ve IEC adaptörlü giriş opsiyonları sunulmaktadır.

Helisel sonsuz dişlili redüktörler;
0.12 kW dan 15 kW'ya kadar değişen güçleri ile maksimum 3570 Nm'ye kadar çıkış momenti sağlayabilmektedir.

EN DESCRIPTION OF PSH

For motor and without motor versions, we have input options of free input shaft ,with PAM,IEC adaptors.

Helical worm gear units;
with various power ranging between 0,12 kW and 15 kW, supplies at most 3570 Nm output moment.

DE PSH-EINFÜHRUNG

Bei Auswahlmöglichkeiten mit oder ohne Motor gibt es Antriebsoptionen mit freier Antriebswelle, PAM- und IEC Adapter.

Stirnrad - Schneckengetriebe bieten ein Abtriebsmoment von max. 3570 Nm bei einer Leistung zwischen 0,12 kW und 15 kW.

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 ve Üç kademeli helisel sonsuz dişlili redüktör
Helical-worm gear units, double and triple stage reduction
Zwei und dreistufiges Stirnrad-Schneckengetriebe




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

TR W, IEC VE PAM ADAPTÖRÜ

W kovanlı (serbest giriş milli) 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 maximum 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.

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.

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 Sondermaβnahmen erforderlich, wir bitten um Anfrage.

Bei Hubwerken, Aufzügen und anderen Einsatzfällen mit Personengefährdung sind Sondermaβnahmen erforderlich, hier bitten wir um Anfrage. Der IEC-Adapter hat gegenüber dem Direktanbau des Motors eine zusätzliche Wellenkupplung und zusätzliche Lagerstellen. Hierdurch entstehen gegeüber 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 EİNSATZBEREİCHE

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

TR UYGULAMA ALANLARI	EN APPLICATION AREAS	DE EİNSATZBEREİCHE

UYGULAMALAR	APPLICATIONS	ANWENDUNGEN
TARAMA MAKİNELERİ	DREDGES	SIEBMASCHINEN
*** Kablo Bobinleri**	* Cable Reels	* Kabelspulen
*** Konveyörler**	* Conveyors	* Förderer
*** Pompalar**	* Pumps	* Pumpen
*** İstifleme Makineleri**	* Stackers	* Stapelmaschinen
*** Vinçler**	* Winches	* Kräne
EKSTRUDERLER	EXTRUDERS	EXTRUDER
*** Genel**	* General	* Allgemeines
*** Plastikler**	* Plastics	* Kunststoffe
Değişken Hızlı Tahrik	Variable Speed Drive	Antrieb mit variabler Geschwindigkeit
Sabit Hızlı Tahrik	Fixed Speed Drive	Antrieb mit konstanter Geschwindigkeit
*** Kauçuk, Lastik**	* Rubber	*Gummi, Kautschuk
Kesintisiz Vida İşlemleri	Continuous Screw Operation	Kontinuierlicher Schraubbetrieb
Kesintili Vida İşlemleri	Intermittent Screw Operation	Intermittierende Schrauboperationen
FANLAR	FANS	LÜFTER
*** Santrifüj**	* Centrifugal	* Zentrifuge
*** Yüksek Emişli**	* Forced Draft	* Starke Saugleistung
*** İndüklenmiş Çekiş**	* Induced Draft	* Induzierte Traktion
*** Endüstriyel ve Maden Ocağı**	* Industrial and Mine	* Industrie und Bergbau
BESLEME ÜNİTELERİ	FEEDERS	FÜTTERUNGSMASCHİNEN
*** Palet**	* Apron	* Palette
*** Bant**	* Belt	* Band
*** Disk**	* Disc	* Scheibe
*** Pistonlu**	* Reciprocating	* Kolben
*** Vida**	* Screw	* Schrauben
GIDA ENDÜSTRİSİ	FOOD INDUSTRY	NAHRUNGSMITTELINDUSTRIE
*** Hububat Fırını**	* Cereal Cooker	* Getreideofen
*** Hamur Karıştırıcı**	* Dough Mixer	* Knetmaschine
*** Kıyma Makinesi**	* Meat Grinder	* Fleischwolf
*** Dilimleyici**	* Slicer	* Schneidemaschine
METAL İŞLEMELERİ	METAL MILLS	METALL VERARBEITUNG
*** Çekme Makinesi Taşıma ve Ana Tahrik**	* Draw Bench Carriage and Main Drive	* Traktionsmaschinen-Förderung und Hauptantrieb
*** Hammadde İticileri**	* Slab Pushers	* Rohstoffschieber
*** Makaslar**	* Shears	* Schere
*** Tel Çekme**	* Wire Drawing	* Drahtziehen
*** Tel Sargı Makinesi**	* Wire Winding Machine	* Drahtwickelmaschine
*** Salgı Tezgahı**	* Runout Table	* Sekretbank
Geri Dönmesiz	Non-Reversing	Ohne Rückkehr
Tek Tahrik	Individual Drives	Einzelantrieb
Grup Tahriki	Group Drives	Gruppenablage
DÖNER İŞLEMELER	MILLS (ROTARY TYPE)	DREHARBEITEN
*** Küresel ve Çubuk**	* Ball and Rod	* Sphärisch und Stab
Düz Halka Dişli	Spur Ring Gear	Flachringgetriebe
Helisel Halka Dişli	Helical Ring Gear	Schrägverzahntes Hohlrad
Doğrudan Bağlı	Direct Connected	Direkter Anschluss
*** Çimento Fırını**	* Cement Kilns	* Zementofen
*** Kurutucular ve Soğutucular**	* Dryers and Coolers	* Trockner und Kühler

TR UYGULAMA ALANLARI	EN APPLICATION AREAS	DE EİNSATZBEREİCHE

UYGULAMALAR	APPLICATIONS	ANWENDUNGEN
KERESTE ENDÜSTRİSİ	LUMBER INDUSTRY	HOLZINDUSTRIE
*** Kabuk Soyucular**	* Barkers	* Schalenschäler
Besleme Tamburu	Spindle Feed	Zuführtrommel
Ana Tahrik	Main Drive	Hauptantrieb
*** Konveyörler**	* Conveyors	* Förderer
Brülör	Burner	Brenner
Ana Yük veya Ağır Yük	Main or Heavy Duty	Hauptlast oder Schwerlast
Ana Kütük	Main Log	Baumstumpf
Hızar ve Taşıma Bandı	Re-saw, Merry-Go-Round	Sägewerk und Förderband
Kalın Dilim	Slab	Platte
Taşıma	Transfer	Transport
*** Kesme Testereleri**	* Cut-Off Saws	* Trennsägen
Zincir	Chain	Kette
Sürükleme	Drag	Schleppen
*** İndirme Boşaltma Tamburları**	* Debarking Drums	* Entladetrommeln
*** Uzun Deste**	* Long Deck	* Langes Deck
*** Tomruk Çekme-Eğme**	* Log Hauls - Incline	* Kloben ziehen und abbiegen
*** Kütük Döndürme Aygıtları**	* Log Turning Devices	* Drehvorrichtungen für Baumstupfe
*** Sıralama Tablası**	* Sorting Table	* Sortiertabelle
*** Taşıma**	* Transfers	* Transport
Zincir	Chain	Kette
Kreynyolu	Causeway	Kranbahn
*** Tabla Tahriki**	* Tray Drives	* Tischlaufwerk
KAĞIT İŞLEMELERİ	PAPER MILLS	PAPIERFÜHRUNG
*** Karıştırıcı**	* Agitator (Mixer)	* Rührgerät
*** Saf çözeltiler İçin Karıştırıcı**	* Agitator for Pure Liquors	* Mischer für reine Lösungen
*** Kabuk Soyma Tromelleri**	* Barking Drums	* Peeling Tromels
*** Mekanik Kabuk Soyucu**	* Mechanical Barkers	* Mechanischer Schäler
*** Dövücü - Öğütücü**	* Beater	* Schlag - Mahlwerk
*** Düzleştirme Makinesi**	* Breaker Stack	* Richtmaschine
*** Kalenderleme**	* Calender	* Kalandrieren
*** Yüzey Pürüzlendirici**	* Chipper	* Oberflächenaufrauung
*** Çentik Besleyici**	* Chip Feeder	* Kerbzuführung
*** Kaplama Merdanesi**	* Coating Rolls	* Beschichtungswalze
*** Konveyörler**	* Conveyors	* Förderer
Çentik, Kabuk, Kimyasal	Chip, Bark, Chemical	Kerbe, Schale, Chemisch
Kalın Dilimler İçeren Kütükler	Log (including Slab)	Stämme mit dicken Scheiben
*** Kesici**	* Cutter	* Schneider
*** Silindir Kalıpları**	* Cylinder Molds	* Zylinderformen
*** Kurutucu**	* Dryer	* Trockner
Kağıt Makinesi	Paper Machine	Papiermaschine
Konveyör Tip	Conveyor Type	Förderertyp
*** Kabartmalı Basıcı**	* Embosser	* Geprägter Presser
*** Ekstrüder**	* Extruder	* Extruder
*** Kağıt Merdaneleri**	* Paper Rolls	* Papierrollen
*** Presler**	* Presses	* Pressen
*** Küspe Makinesi**	* Pulper	* Teigmacher
*** Pompalar**	* Pumps	* Pumpen
FİLTRELER	SCREENS	FILTER
*** Havalı Yıkama**	* Air Washing	* Luftwäsche
*** Döner - Taş veya Çakıl**	* Rotary - Stone or Gravel	* Rotierer - Stein oder Kies
*** Hareketli Su Girişi**	* Traveling Water Intake	* Beweglicher Wassereinlass

TR UYGULAMA ALANLARI	EN APPLICATION AREAS	DE EİNSATZBEREİCHE

UYGULAMALAR	APPLICATIONS	ANWENDUNGEN
PLASTİK ENDÜSTRİSİ İLK İŞLEMLER	PLASTIC INDUSTRY PRIMARY PROCESSING	KUNSTSTOFFINDUSTRIE ERSTE AKTIONEN
*** Yoğun İç Karıştırıcılar**	* Intensive Internal Mixers	* Intensive interne Mixer
Harmanlayıcı	Batch Mixers	Mixer
Kesintisiz Karıştırıcı	Continuous Mixers	Kontinuierlicher Mischer
PLASTİK ENDÜSTRİSİ İKİNCİL İŞLEMLER	PLASTIC INDUSTRY SECONDARY PROCESSING	KUNSTSTOFFINDUSTRIE SEKUNDÄRE PROZESSE
*** Hacim Kalıpçıları**	* Blow Molders	* Volumenformer
*** Kaplama**	* Coating	* Glasur
*** Tabaka**	* Film	* Schicht
*** Boru**	* Pipe	* Rohr
*** Ön Plastikleştirme**	* Pre-Plasticizers	* Vorplastifizieren
*** Rot**	* Rods	*Auswuchten
*** Saç, Plaka**	* Sheet	* Haare, Platte
*** Borular**	* Tubing	* Rohre
POMPALAR	PUMPS	PUMPEN
*** Santrifüj**	* Centrifugal	* Zentrifuge
*** Oranlama**	* Proportioning	* Bewertung
*** Pistonlu**	* Reciprocating	* Kolben
Tek Tesirli - 3 veya daha fazla Silindir	Single Acting - 3 or more cylinders	Einfachwirkend - 3 oder mehr Zylinder
Çift Tesirli - 2 veya daha fazla Silindir	Double Acting - 2 or more cylinders	Doppeltwirkend - 2 oder mehr Zylinder
*** Döner**	*Rotary	* rotierend
Şanzuman Tipi	Gear Type	Übertragungsart
Lob	Lobe	Lob
Pervane	Vane	Propeller
KAUÇUK - LASTİK ENDÜSTRİSİ	RUBBER INDUSTRY	KAUTSCHUK - REIFENINDUSTRIE
*** Yoğun İç Karıştırıcılar**	* Intensive Internal Mixers	* Intensive interne Mixer
Harmanlayıcılar	Batch Mixers	Mixer
Kesintisiz Karıştırıcılar	Continuous Mixers	Kontinuierliche Mischer
***Karıştırma İşlemi**	* Mixing Mill	*Mischprozess
2 Yumuşak Merdane	2 Smooth Rolls	2 weiche Rollen
1 veya 2 Oluklu Merdane	1 or 2 corrugated Rolls	1 oder 2 gerillte Rollen
*** Toplu İşleme - 2 Yumuşak Silindir**	* Batch Drop Mill - 2 Smooth Rolls	* Stapelverarbeitung - 2 weiche Walzen
*** Kırıcı ve Isıtıcı - 2 Merdane, 1 Oluklu Merdane**	* Cracker Warmer-2 Rolls,1 Corr. Roll	* Brecher und Heizung - 2 Walzen, 1 Wellwalze
*** Kırıcı - 2 Oluklu Merdane**	* Cracker - 2 Corrugated Rolls	* Brecher - 2 Wellwalzen
*** Tutma, Besleme, Karıştırma İşlemi - 2 Merdane**	* Holding, Feed and Blend Mill - 2 Rolls	* Halte-, Fütterungs-, Mischprozess - 2 Rollen
*** Arıtıcı - 2 Merdane**	* Refiner - 2 Rolls	* Refiner - 2 Walzen
*** Kalenderler**	* Calenders	* Kalendrieren
ATIK SU BOŞALTIM EKİPMANLARI	SEWAGE DISPOSAI EQUIPMENT	AUSRÜSTUNG FÜR ABWASSERENTLEERUNG
*** Çubuklu Elek**	* Bar Screens	* Stick Sieb
*** Kimyasal Besleme Üniteleri**	* Chemical Feeders	* Chemikalienzufuhreinheiten
*** Su Boşaltma Eleği**	* Dewatering Screen	* Wasserablaufsieb
*** Köpük Kesici**	* Scum Breaker	* Schaumschneider
*** Yavaş veya Hızlı Karıştırıcılar**	* Slow or Rapid Mixers	* Langsame oder schnelle Mixer
*** Tortu Toplayıcı**	* Sludge Collector	* Sedimentsammler
*** Koyulaştırıcı**	* Thickener	* Verdickungsmittel
*** Vakumlu Filtre**	* Vacuum Filter	* Vakuumfilter
KOMPAKTÖRLER	COMPACTORS	VERDICHTER
ÇEKTİRMELER - YAVAŞ VE KUVVETLİ	PULLERS - BARGE HAUL	AUFZİEHVORRİCHTUNGEN - LANGSAM UND STARK

TR UYGULAMA ALANLARI | EN APPLICATION AREAS | DE EİNSATZBEREİCHE

UYGULAMALAR	APPLICATIONS	ANWENDUNGEN
ŞEKER ENDÜSTRİSİ	SUGAR INDUSTRY	ZUCKERINDUSTRIE
*** Pancar Dilimleme Aleti**	* Beet Slicer	* Rübenschneider
*** Kamış Bıçakları**	* Cane Knives	* Schilfklingen
*** Kırma Makineleri**	* Crushers	* Zerkleinerungsmaschinen
TEKSTİL ENDÜSTRİSİ	TEXTILE INDUSTRY	TEXTILINDUSTRIE
*** Harman Ölçer**	* Batcher	* Dreschmesser
*** Kalenderler**	* Calenders	* Kalendrieren
*** Şablonlar**	* Cards	* Vorlagen
*** Kuru Konserveler**	* Dry Cans	* Trockenkonserven
*** Boyama Makinesi**	* Dyeing Machinery	* Färbemaschine
*** Dokuma Tezgahları**	* Looms	* Webstühle
*** Çamaşır Sıkma Makinesi - Merdane**	* Mangle	* Waschmaschine - Roller
*** Kaplama**	* Napper	* Glasur
*** Doldurma Makinesi**	* Pads	* Abfüllmaschine
*** Haşıl Makinesi**	* Siashers	* Kalibriermaschine
*** Halat Yıkama Makinesi**	* Soapers	* Seilwaschmaschine
*** Eğirme Makinesi**	* Spinners	* Spinnmaschine
*** Germe Kurutma Makineleri**	* Tenter Frames	* Stretch-Trocknungsmaschinen
*** Yıkama Makineleri**	* Washers	* Waschmaschinen
*** Masura Sarıcısı**	* Winders	* Spuler
DAMPERLİ ARAÇLAR	CAR DUMPERS	DIPPER FAHRZEUGE
ÇEKİCİ ARAÇLAR	CAR PULLERS	TURMFAHRZEUGE
ARITICILAR	CLARIFIERS	REINIGUNGSMASCHINEN
KONSERVE DOLUM MAKİNELERİ	CAN FILLING MACHINES	DOSENFÜLLMASCHINEN

TR KULLANILAN TERİMLER | EN NOMENCLATURE | DE BEGRİFFE

REDÜKTÖR TİPİ / GEAR TYPE / GETRİEBETYP

Ayak montajlı
Food mounted
Fußbefestigung

PSH 2040...PSH 2125 = **İki kademeli, Helisel Sonsuz Dişlili redüktör**
Double reduction, helical-worm gearboxes
Zweistufiges, Stirnrad-Schneckengetriebe

PSH 3050...PSH 3125 = **Üç kademeli, Helisel Sonsuz Dişlili redüktör**
Triple reduction, helical-worm gearboxes
Dreistufiges, Stirnrad-Schneckengetriebe

Gövdeden montajlı
Case mounted
Gehäuse Flanschmontage

PSH 2040...PSH 2125 = **İki kademeli, Helisel Sonsuz Dişlili redüktör**
Double reduction, helical-worm gearboxes
Zweistufiges, Stirnrad-Schneckengetriebe

PSH 3050...PSH 3125 = **Üç kademeli, Helisel Sonsuz Dişlili redüktör**
Triple reduction, helical-worm gearboxes
Dreistufiges, Stirnrad-Schneckengetriebe

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

PSH 2040...PSH 2125 = **İki kademeli, Helisel Sonsuz Dişlili redüktör**
Double reduction, helical-worm gearboxes
Zweistufiges, Stirnrad-Schneckengetriebe

PSH 3050...PSH 3125 = **Üç kademeli, Helisel Sonsuz Dişlili redüktör**
Triple reduction, helical-worm gearboxes
Dreistufiges, Stirnrad-Schneckengetriebe

REDÜKTÖR DİZAYNI / GEAR DESIGN / GETRİEBE - KURZZEİCHEN

TMA **= Ayak montajlı, Tek mil çıkışlı**
Foot mounted, Solid shaft
Fußbefestigung, einseitige Abtriebswelle

ÇMA **= Ayak montajlı, Çift mil çıkışlı,**
Foot mounted, Solid shaft on both sides
Fußbefestigung, doppelseitige Abtriebswelle

DG/B14 **= Gövdeden montajlı, Delik milli, B14 flanşlı**
Case mounted, Hollow shaft, Flange B14
Gehäuse Flanschmontage, Hohlwelle, B14-Flansch

DG/B5 **= Gövdeden montajlı, Delik milli, B5 flanşlı**
Case mounted, Hollow shaft, Flange B5
Gehäuse Flanschmontage, Hohlwelle, B5-Flansch

DG/KS-B14 **= Gövdeden montajlı, Delik milli, Konik sıktırmalı, B14 flanşlı**
Case mounted, Hollow shaft, Shrink disk connector, Flange B14
Gehäuse Flanschmontage, Hohlwelle, Schrumpfscheibe, B14-Flansch

DG/TK **= Gövdeden montajlı, Delik milli, Tork kollu**
Case mounted, Hollow shaft, Torque arm
Gehäuse Flanschmontage, Hohlwelle, Drehmomentstütze

DG/Ç **= Gövdeden montajlı, Delik milli, Çektirmeli**
Case mounted, Hollow shaft, Fixing element
Gehäuse Flanschmontage, Hohlwelle, mit Aufziehvorrichtung

DG/Ç/KK **= Gövdeden montajlı, Delik milli, Çektirmeli, Koruma Kapaklı**
Case mounted, Hollow shaft, Fixing element with cover
Gehäuse Flanschmontage, Hohlwelle, mit Aufziehvorrichtung, Schutzkappe

DG/KS/KK **= Gövdeden montajlı, Delik milli, Konik sıktırmalı, Koruma Kapaklı**
Case mounted, Hollow shaft, Shrink disk connector with cover
Gehäuse Flanschmontage,Hohlwelle, Schrumpfscheibe, Schutzkappe

TMG/B5 **= Gövdeden montajlı, Tek mil çıkışlı, B5 flanşlı**
Case mounted, Solid shaft, Flange B5
Gehäuse Flanschmontage, einseitige Abtriebswelle, B5-Flansch

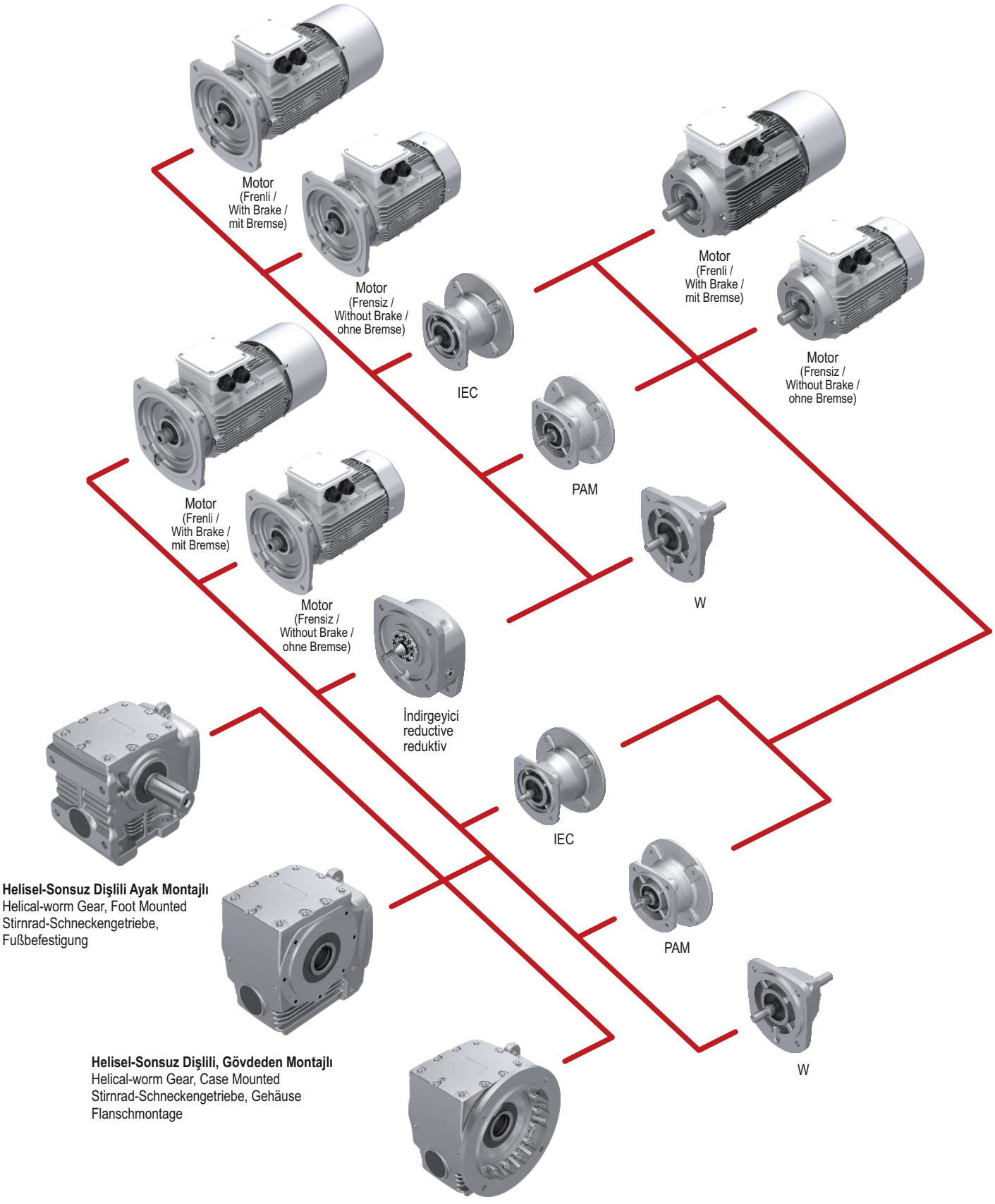
TR KULLANILAN TERİMLER | EN NOMENCLATURE | DE BEGRİFFE

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

TR PSH MODÜLER SİSTEMİ

EN MODULAR SYSTEM OF PSH

DE PSH MODULARES SYSTEM

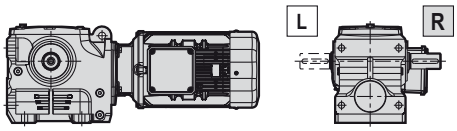


TR MEVCUT DİZAYNLARA GENEL BAKIŞ | EN OVERVIEW TO AVAILABLE DESIGNS | DE ÜBERSICHT AKTUELLE DESIGNS

Kısaltmalar Abbrev. Abkürzungen	**Anlamı** Meaning Bedeutung	**Helisel Sonsuz Dişlili Redüktör** Helical Worm Gear Units Stirnrad-Schneckengetriebe
DG/B5	**Gövdeden montajlı, Delik milli, B5 flanşlı** Case mounted, Hollow shaft, Flange B5 Gehäuse Flanschmontage, Hohlwelle, B5-Flansch	✓
DG/B14	**Gövdeden montajlı, Delik milli, B14 flanşlı** Case mounted, Hollow shaft, Flange B14 Gehäuse Flanschmontage, Hohlwelle, B14-Flansch	✓
DG/TK	**Gövdeden montajlı, Delik milli, Tork kollu** Case mounted, Hollow shaft, Torque arm Gehäuse Flanschmontage, Hohlwelle, Drehmomentstütze	✓
Ç	**Çektirme Kiti** Puller Kit Befestigungsbausatz	✓
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 Rücklaufsperre	✓
WB	**W kilidi** Backstop in W adapter W-Sperre	✓
KS	**Konik sıktırma** Hollow shaft with shrink disc Schrumpfscheibe	✓
TMG/B5	**Gövdeden montajlı, Tek mil çıkışlı, B5 flanşlı** Case mounted, Solid shaft, Flange B5 Gehäuse Flanschmontage, einseitige Abtriebswelle, B5-Flansch	✓
GR	**Güçlendirilmiş rulman** Reinforced bearing Verstärktes Lager	✓
TMA	**Ayak montajlı, Tek mil çıkışlı** Foot mounted, Solid shaft Fußbefestigung, einseitige Abtriebswelle	✓
W	**W kovanı** Free input shaft W-Adapter	✓

TR ÜRÜNLERİMİZ	EN OUR PRODUCTS	DE UNSERE PRODUKTE

PSH 2080...TMA - 80S/4A R
Tek mil çıkışlı, Ayak montajlı, Helisel sonsuz dişlili, Motorlu redüktör
Solid shaft, Foot mounted, Helical worm gear unit, With motor
Einseitige Abtriebswelle, Fußbefestigung, Stirnrad-Schneckengetriebe, Mit motor

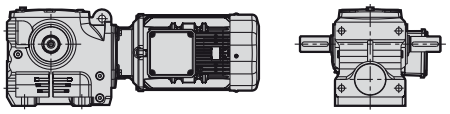


PSH 2080...TMA - W R
Tek mil çıkışlı, Ayak montajlı, Helisel sonsuz dişlili, W kovanlı redüktör
Solid shaft, Foot mounted, Helical worm gear unit, With W adapter
Einseitige Abtriebswelle, Fußbefestigung, Stirnrad-Schneckengetriebe, Mit W-Adapter

PSH 2080...TMA - IEC 80 R
Tek mil çıkışlı, Ayak montajlı, Helisel sonsuz dişlili, IEC Adaptörlü redüktör
Solid shaft, Foot mounted, Helical worm gear unit, With IEC adapter
Einseitige Abtriebswelle, Fußbefestigung, Stirnrad-Schneckengetriebe, Mit IEC-adapter

PSH 2080...TMA - PAM 80 R
Tek mil çıkışlı, Ayak montajlı, Helisel sonsuz dişlili, PAM Adaptörlü redüktör
Solid shaft, Foot mounted, Helical worm gear unit, With PAM adapter
Einseitige Abtriebswelle, Fußbefestigung, Stirnrad-Schneckengetriebe, Mit PAM adapter

PSH 2080...ÇMA - 80S/4A
Çift mil çıkışlı, Ayak montajlı, Helisel sonsuz dişlili, Motorlu redüktör
Solid shaft on both sides, Foot mounted, Helical worm gear unit, With motor
Doppelseitige Abtriebswelle, Fußbefestigung, Stirnrad-Schneckengetriebe, Mit motor

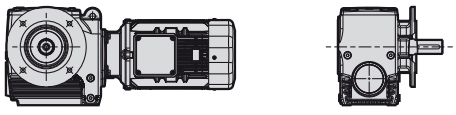


PSH 2080...ÇMA - W
Çift mil çıkışlı, Ayak montajlı, Helisel sonsuz dişlili, W kovanlı redüktör
Solid shaft on both sides, Foot mounted, Helical worm gear unit, With W adapter
Doppelseitige Abtriebswelle, Fußbefestigung, Stirnrad-Schneckengetriebe, Mit W-Adapter

PSH 2080...ÇMA - IEC 80
Çift mil çıkışlı, Ayak montajlı, Helisel sonsuz dişlili, IEC adaptörlü redüktör
Solid shaft on both sides, Foot mounted, Helical worm gear unit, With IEC adapter
Doppelseitige Abtriebswelle, Fußbefestigung, Stirnrad-Schneckengetriebe, Mit IEC-adapter

PSH 2080...ÇMA - PAM 80
Çift mil çıkışlı, Ayak montajlı, Helisel sonsuz dişlili, PAM adaptörlü redüktör
Solid shaft on both sides, Foot mounted, Helical worm gear unit, With PAM adapter
Doppelseitige Abtriebswelle, Fußbefestigung, Stirnrad-Schneckengetriebe, Mit PAM adapter

PSH 2080...TMG/B5 - 80S/4A
Tek mil çıkışlı, Gövdeden montajlı, B5 Flanşlı, Helisel sonsuz dişlili, Motorlu redüktör
Solid shaft, case mounted, Flange B5, Helical worm gear unit, With motor
Einseitige Abtriebswelle, Gehäuse Flanschmontage, B5 Flansch, Stirnrad-Schneckengetriebe, Mit motor



PSH 2080...TMG/B5 - W
Tek mil çıkışlı, Gövdeden montajlı, B5 Flanşlı Helisel sonsuz dişlili, W kovanlı redüktör
Solid shaft, case mounted, Flange B5, Helical worm gear unit, With W adapter
Einseitige Abtriebswelle, Gehäuse Flanschmontage, B5 Flansch, Stirnrad-Schneckengetriebe, Mit W-Adapter

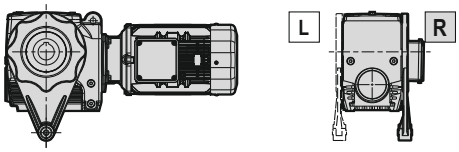
PSH 2080...TMG/B5 - IEC 80
Tek mil çıkışlı, Gövdeden montajlı, B5 Flanşlı Helisel sonsuz dişlili, IEC Adaptörlü Redüktör
Solid shaft, case mounted, Flange B5, Helical worm gear unit, With IEC adapter
Einseitige Abtriebswelle, Gehäuse Flanschmontage, B5 Flansch, Stirnrad-Schneckengetriebe, Mit IEC-adapter

PSH 2080...TMG/B5 - PAM 80
Tek mil çıkışlı, Gövdeden montajlı, B5 Flanşlı Helisel sonsuz dişlili, PAM Adaptörlü Redüktör
Solid shaft, case mounted, Flange B5, Helical worm gear unit, With PAM adapter
Einseitige Abtriebswelle, Gehäuse Flanschmontage, B5 Flansch, Stirnrad-Schneckengetriebe, Mit PAM adapter

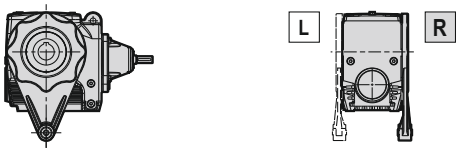
Not : L ve R çıkış yönünü göstermektedir. / Note: L and R shows that output direction. / Hinweis: L und R geben die Ausgangsrichtung an.

TR ÜRÜNLERİMİZ	EN OUR PRODUCTS	DE UNSERE PRODUKTE

PSH 2080...DG/TK - 80S/4A R
Delik milli, Gövdeden montajlı, Tork kollu, Helisel sonsuz dişlili, Motorlu redüktör
Hollow shaft, Case mounted, Torque arm, Helical worm gear unit, With motor
Hohlwelle, Gehäuse Flanschmontage, Drehmomentstütze, Stirnrad-Schneckengetriebe, Mit motor



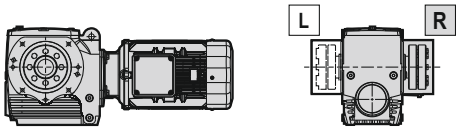
PSH 2080...DG/TK - W R
Delik milli, Gövdeden montajlı, Tork kollu Helisel sonsuz dişlili, W kovanlı redüktör
Hollow shaft, Case mounted, Torque arm, Helical worm gear unit, With W adapter
Hohlwelle, Gehäuse Flanschmontage, Drehmomentstütze, Stirnrad-Schneckengetriebe, Mit W-Adapter



PSH 2080...DG/TK - IEC 80 R
Delik milli, Gövdeden montajlı, Tork kollu Helisel sonsuz dişlili, IEC adaptörlü redüktör
Hollow shaft, Case mounted, Torque arm, Helical worm gear unit, With IEC adapter
Hohlwelle, Gehäuse Flanschmontage, Drehmomentstütze, Stirnrad-Schneckengetriebe, Mit IEC-adapter

PSH 2080...DG/TK - PAM 80 R
Delik milli, Gövdeden montajlı, Tork kollu Helisel sonsuz dişlili, PAM adaptörlü redüktör
Hollow shaft, Case mounted, Torque arm, Helical worm gear unit, With PAM adapter
Hohlwelle, Gehäuse Flanschmontage, Drehmomentstütze, Stirnrad-Schneckengetriebe, Mit PAM adapter

PSH 2080...DG/KS - 80S/4A R
Delik milli, Gövdeden montajlı, Konik sıktırmalı Helisel sonsuz dişlili, Motorlu redüktör
Hollow shaft, Case mounted, Shrink disc, Helical worm gear unit, With motor
Hohlwelle, Gehäuse Flanschmontage, Schrumpfscheibe, Stirnrad-Schneckengetriebe, Mit motor

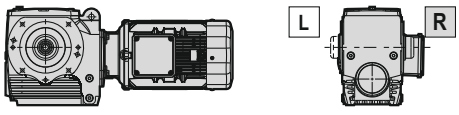


PSH 2080...DG/KS - W R
Delik milli, Gövdeden montajlı, Konik sıktırmalı Helisel sonsuz dişlili, W kovanlı redüktör
Hollow shaft, Case mounted, Shrink disc, Helical worm gear unit, With W adapter
Hohlwelle, Gehäuse Flanschmontage, Schrumpfscheibe, Stirnrad-Schneckengetriebe, Mit W-Adapter

PSH 2080...DG/KS - IEC 80 R
Delik milli, Gövdeden montajlı, Konik sıktırmalı Helisel sonsuz dişlili, IEC adaptörlü redüktör
Hollow shaft, Case mounted, Shrink disc, Helical worm gear unit, With IEC adapter
Hohlwelle, Gehäuse Flanschmontage, Schrumpfscheibe, Stirnrad-Schneckengetriebe, Mit IEC-adapter

PSH 2080...DG/KS - IEC 80 R
Delik milli, Gövdeden montajlı, Konik sıktırmalı Helisel sonsuz dişlili, PAM adaptörlü redüktör
Hollow shaft, Case mounted, Shrink disc, Helical worm gear unit, With PAM adapter
Hohlwelle, Gehäuse Flanschmontage, Schrumpfscheibe, Stirnrad-Schneckengetriebe, Mit PAM adapter

PSH 2080...DG/Ç - 80S/4A R
Delik milli, Gövdeden montajlı, Çektirme elementli Helisel sonsuz dişlili, Motorlu redüktör
Hollow shaft, Case mounted, Fixing element, Helical worm gear unit, With motor
Hohlwelle, Gehäuse Flanschmontage, Befestigungsbausatz, Stirnrad-Schneckengetriebe, Mit motor



PSH 2080...DG/Ç - W R
Delik milli, Gövdeden montajlı, Çektirme elementli Helisel sonsuz dişlili, W kovanlı redüktör
Hollow shaft, Case mounted, Fixing element, Helical worm gear unit, With W adapter
Hohlwelle, Gehäuse Flanschmontage, Befestigungsbausatz, Stirnrad-Schneckengetriebe, Mit W-Adapter

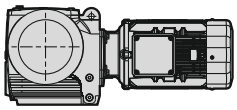
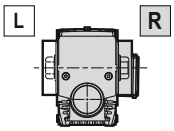
PSH 2080...DG/Ç - IEC 80 R
Delik milli, Gövdeden montajlı, Çektirme elementli Helisel sonsuz dişlili, IEC adaptörlü redüktör
Hollow shaft, Case mounted, Fixing element, Helical worm gear unit, With IEC adapter
Hohlwelle, Gehäuse Flanschmontage, Befestigungsbausatz, Stirnrad-Schneckengetriebe, Mit IEC-adapter

PSH 2080...DG/Ç - PAM 80 R
Delik milli, Gövdeden montajlı, Çektirme elementli Helisel sonsuz dişlili, PAM adaptörlü redüktör
Hollow shaft, Case mounted, Fixing element, Helical worm gear unit, With PAM adapter
Hohlwelle, Gehäuse Flanschmontage, Befestigungsbausatz, Stirnrad-Schneckengetriebe, Mit PAM adapter

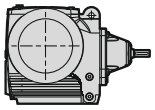
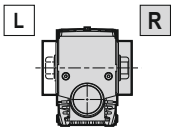
Not : L ve R çıkış yönünü göstermektedir. / Note: L and R shows that output direction. / Hinweis: L und R geben die Ausgangsrichtung an.

TR ÜRÜNLERİMİZ	EN OUR PRODUCTS	DE UNSERE PRODUKTE

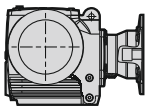
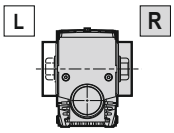
PSH 2080...DG/Ç-KK - 80S/4A R
Delik milli, Gövdeden montajlı, Çektirme elementli, Koruma kapaklı, Helisel sonsuz dişlili, Motorlu redüktör
Hollow shaft, Case mounted, Fixing element and cover, Helical worm gear unit, With motor
Hohlwelle, Gehäuse Flanschmontage, Befestigungsbausatz, Mit Schutzdeckel, Stirnrad-Schneckengetriebe, Mit motor

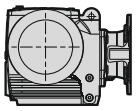
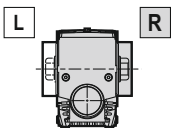
PSH 2080...DG/Ç-KK - W R
Delik milli, Gövdeden montajlı, Çektirme elementli, Koruma kapaklı, Helisel sonsuz dişlili, W kovanlı redüktör
Hollow shaft, Case mounted, Fixing element and cover, Helical worm gear unit, With W adapter
Hohlwelle, Gehäuse Flanschmontage, Befestigungsbausatz, Mit Schutzdeckel, Stirnrad-Schneckengetriebe, Mit W-Adapter

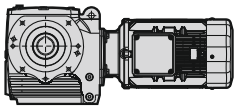
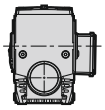
PSH 2080...DG/Ç-KK - IEC 80 R
Delik milli, Gövdeden montajlı, Çektirme elementli, Koruma kapaklı, Helisel sonsuz dişlili, IEC adaptörlü redüktör
Hollow shaft, Case mounted, Fixing element and cover, Helical worm gear unit, With IEC adapter
Hohlwelle, Gehäuse Flanschmontage, Befestigungsbausatz, Mit Schutzdeckel, Stirnrad-Schneckengetriebe, Mit IEC-adapter

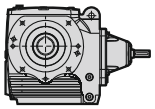
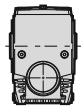
PSH 2080...DG/Ç-KK - PAM 80 R
Delik milli, Gövdeden montajlı, Çektirme elementli, Koruma kapaklı, Helisel sonsuz dişlili, PAM adaptörlü redüktör
Hollow shaft, Case mounted, Fixing element and cover, Helical worm gear unit, With PAM adapter
Hohlwelle, Gehäuse Flanschmontage, Befestigungsbausatz, Mit Schutzdeckel, Stirnrad-Schneckengetriebe, Mit PAM adapter

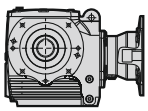
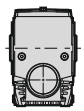
PSH 2080...DG/B14 - 80S/4A
Delik milli, Gövdeden montajlı, B14 Flanşlı Helisel sonsuz dişlili, Motorlu redüktör
Hollow shaft, Case mounted, Flange B14, Helical worm gear unit, With motor
Hohlwelle, Gehäuse Flanschmontage, B14 Flansch, Stirnrad-Schneckengetriebe, Mit motor

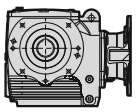
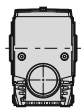
PSH 2080...DG/B14 - W
Delik milli, Gövdeden montajlı, B14 Flanşlı Helisel sonsuz dişlili, W kovanlı redüktör
Hollow shaft, Case mounted, Flange B14, Helical worm gear unit, With W adapter
Hohlwelle, Gehäuse Flanschmontage, B14 Flansch, Stirnrad-Schneckengetriebe, Mit W-Adapter

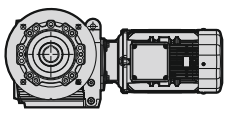
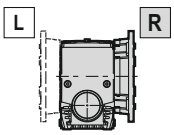
PSH 2080...DG/B14 - IEC 80
Delik milli, Gövdeden montajlı, B14 Flanşlı Helisel sonsuz dişlili, IEC adaptörlü redüktör
Hollow shaft, Case mounted, Flange B14, Helical worm gear unit, With IEC adapter
Hohlwelle, Gehäuse Flanschmontage, B14 Flansch, Stirnrad-Schneckengetriebe, Mit IEC-adapter

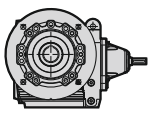
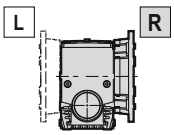
PSH 2080...DG/B14 - PAM 80
Delik milli, Gövdeden montajlı, B14 Flanşlı Helisel sonsuz dişlili, PAM adaptörlü redüktör
Hollow shaft, Case mounted, Flange B14, Helical worm gear unit, With PAM adapter
Hohlwelle, Gehäuse Flanschmontage, B14 Flansch, Stirnrad-Schneckengetriebe, Mit PAM adapter

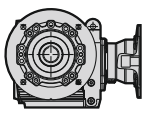
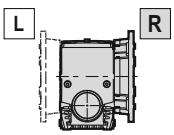
PSH 2080...DG/B5 - 80S/4A R
Delik milli, Gövdeden montajlı, B5 Flanşlı Helisel sonsuz dişlili, Motorlu redüktör
Hollow shaft, Case mounted, Flange B5, Helical worm gear unit, With motor
Hohlwelle, Gehäuse Flanschmontage, B5 Flansch, Stirnrad-Schneckengetriebe, Mit motor

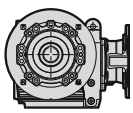
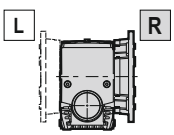
PSH 2080...DG/B5 - W R
Delik milli, Gövdeden montajlı, B5 Flanşlı Helisel sonsuz dişlili, W kovanlı redüktör
Hollow shaft, Case mounted, Flange B5, Helical worm gear unit, With W adapter
Hohlwelle, Gehäuse Flanschmontage, B5 Flansch, Stirnrad-Schneckengetriebe, Mit W-Adapter

PSH 2080...DG/B5 - IEC 80 R
Delik milli, Gövdeden montajlı, B5 Flanşlı Helisel sonsuz dişlili, IEC adaptörlü redüktör
Hollow shaft, Case mounted, Flange B5, Helical worm gear unit, With IEC adapter
Hohlwelle, Gehäuse Flanschmontage, B5 Flansch, Stirnrad-Schneckengetriebe, Mit IEC-adapter

PSH 2080...DG/B5 - IEC 80 R
Delik milli, Gövdeden montajlı, B5 Flanşlı Helisel sonsuz dişlili, PAM adaptörlü redüktör
Hollow shaft, Case mounted, Flange B5, Helical worm gear unit, With PAM adapter
Hohlwelle, Gehäuse Flanschmontage, B5 Flansch, Stirnrad-Schneckengetriebe, 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 Sıktırma Şaftlı [ ]
Diğer.....

Çıkış Mili Tahrik Tipi:
Direkt [ ] Elastik Kaplin [ ] Hidrolik Kaplin [ ] Küçük Hızlarda Zincir Dişli [ ]
Düz Dişli [ ] Triger Kayış [ ] V Kayış [ ] Gerdirme 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:.....ºC

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 [ ] Diğer [ ]
.....

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 :.....ºC

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 GETRİEBEAUSWAHL

1- GETRİEBE

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 - ANTRİEB - ABTRİEB

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 Belastung .....N
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 Belastung .....N
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!

TR SİPARİŞ ÖRNEĞİ

EN EXAMPLE FOR ORDERING

DE BEISPIEL BESTELLBESCREIBUNG

PSH 2100 10.73 DG/KS – PAM 132 - B5 – 132M / 4 BRE – R

PAM B5

63
71
80
90
100
112
132
160

PAM B14

63
71
80
90
100
112
132

IEC

63
71
80
90
100
112
132
160

W

109
122
172
213

AKUPLE

91 - 135

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

28 - 30

İges: Tahvil Oranı
İges: Reduction Ratio
İges: Übersetzung

55 - 90

Standart Ürünler
Available standard products / Standardprodukte

DG/KS: Delik Milli, Konik Sıktırmalı
DG/KS: Hollow Shaft, Shrink Disc Connector
DG/KS: Hohlwelle, Schrumpfscheibe

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

28 - 30

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

Kutup Sayısı
Number of Poles
Anzahl der Pole

2
4
6
2 - 4
2 - 8

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

Motor Aksesuarları
Motor Accessories
Motorzubehör

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

24 - 25

2
Kademe
Reduction
Übersetzungstufen

2
3

91 - 135

100
Sonsuz dişli merkezi ile çıkış şaftı merkezi arası mesafe. (mm.)
Distance between center of the worm gear and center of output shaft
Abstand zwischen Schneckenradmitte und Abtriebsmitte. (mm)

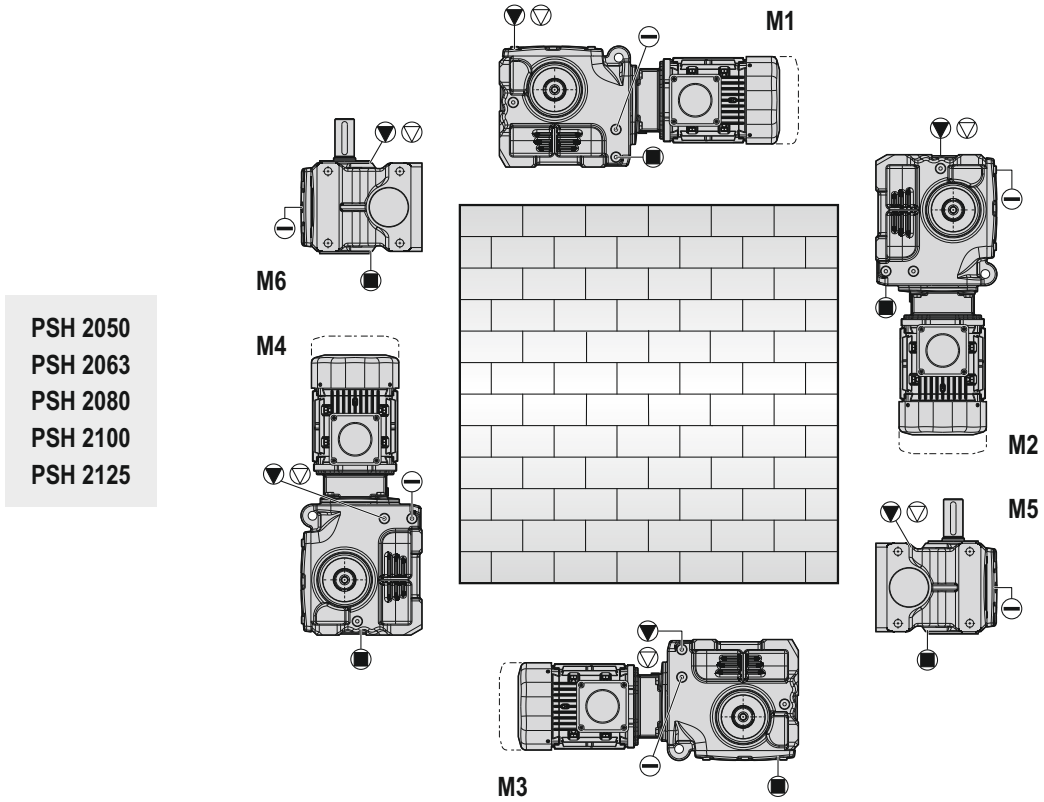
040 050 063 080
100 125

91 - 135

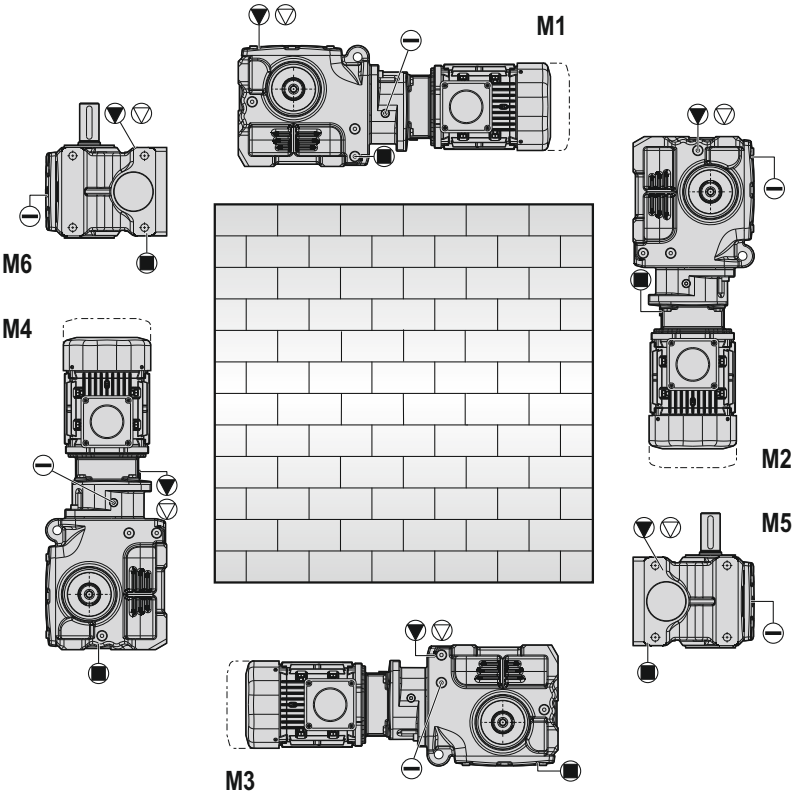
Tip: PGR (Helisel - Sonsuz Redüktör) **PSH**
PGR (Helical - Worm Gearbox) PSH
PGR (Stirnrad-Schneckengetriebe) PSH

TR MONTAJ POZİSYONLARI | EN MOUNTING POSITIONS | DE MONTAGEPOSITIONEN

AYAK MONTAJLI
FOOT MOUNTED
FUBBEFESTIGUNG



PSH 2050
PSH 2063
PSH 2080
PSH 2100
PSH 2125



PSH 3050
PSH 3063
PSH 3080
PSH 3100
PSH 3125

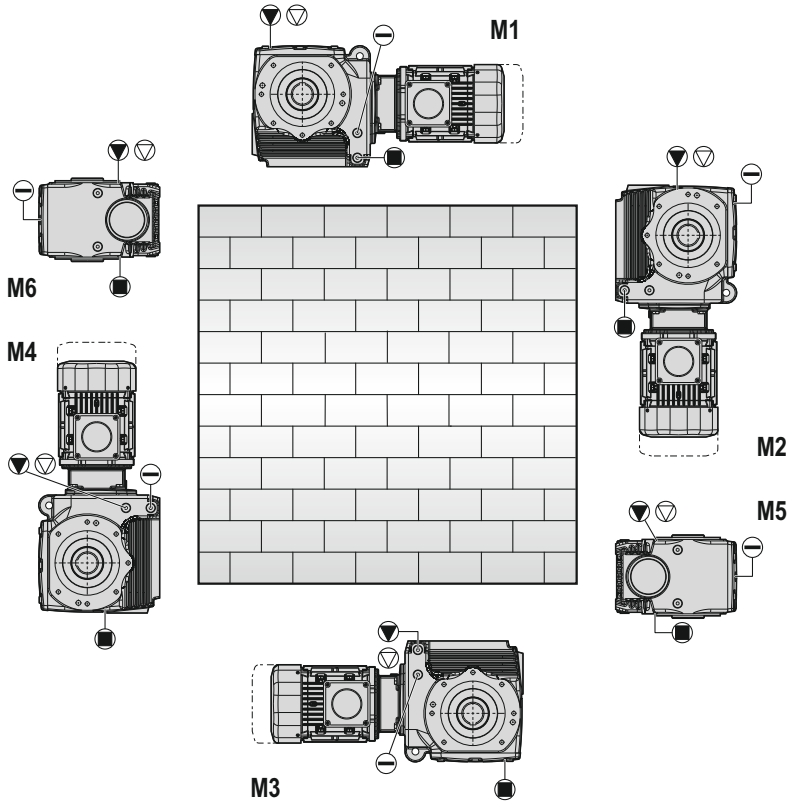
Havalandırma tapası / Vent plug / Entlüftung
Doldurma tapası / Filling plug / Einfüllstopfen
Yağ Seviye tapası / Oil level / Ölstand
Boşaltma tapası / Drain plug / Ölablass

TR MONTAJ POZİSYONLARI | EN MOUNTING POSITIONS | DE MONTAGEPOSITIONEN

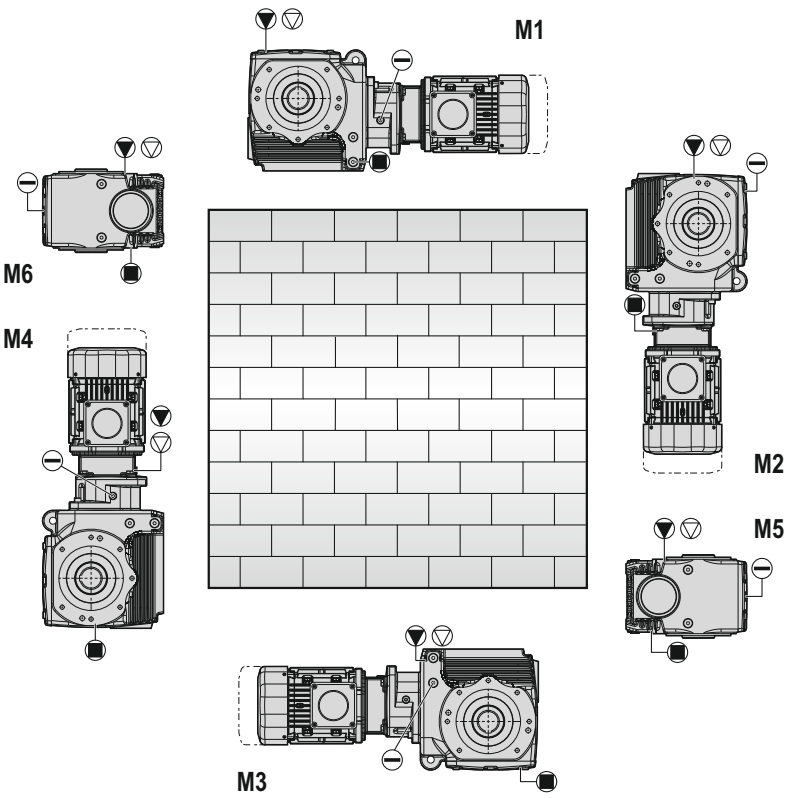
GÖVDEDEN MONTAJLI

CASE MOUNTED

GEHÄUSE FLANSCHMONTAGE



PSH 2050
PSH 2063
PSH 2080
PSH 2100
PSH 2125



PSH 3050
PSH 3063
PSH 3080
PSH 3100
PSH 3125

Havalandırma tapası / Vent plug / Entlüftung

Doldurma tapası / Filling plug / Einfüllstopfen

Yağ Seviye tapası / Oil level / Ölstand

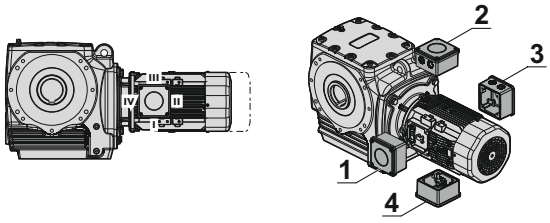
Boşaltma tapası / Drain plug / Ölablass

TR MONTAJ POZİSYONLARI | EN MOUNTING POSITIONS | DE MONTAGEPOSITIONEN

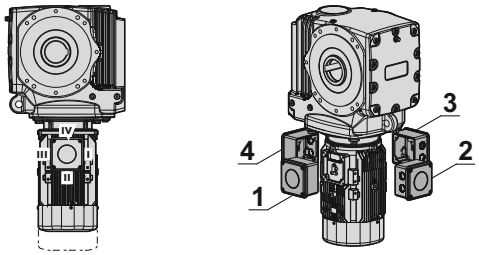
PSH

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

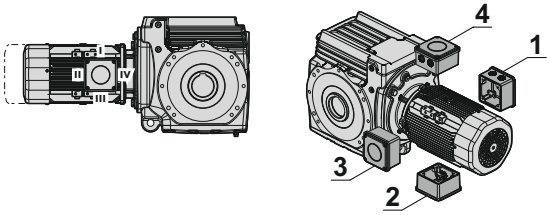
M1



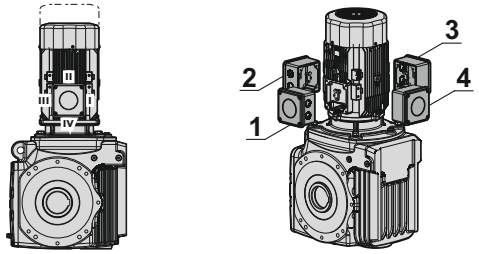
M2



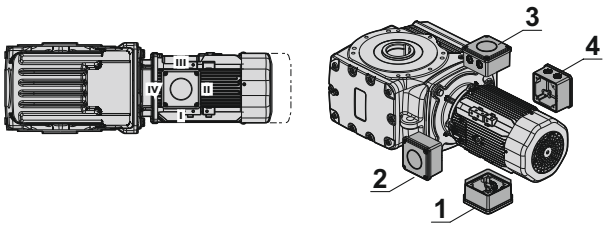
M3



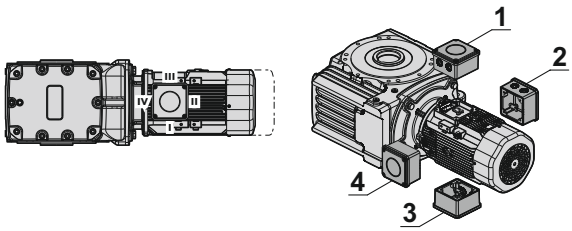
M4



M5



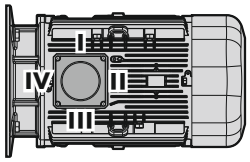
M6



*** 1 - 2 - 3 - 4 :** Terminal kutusu yönlerini gösterir.
*** I - II - III - IV:** Kablo giriş yönlerini gösterir.

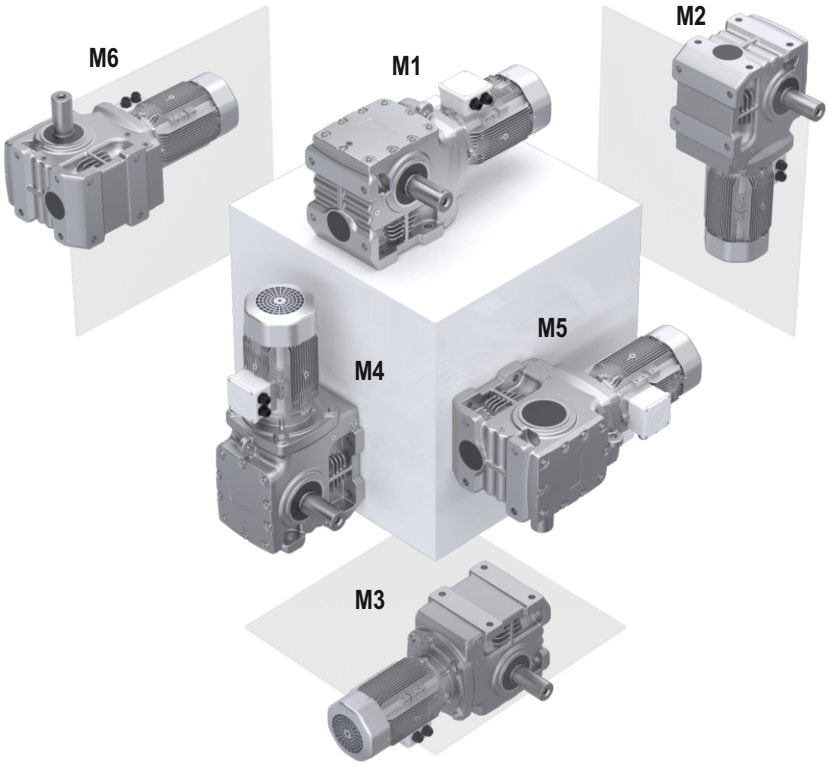
*** 1 - 2 - 3 - 4 :** Shows terminal box position
*** I - II - III - IV:** Shows cable entry position

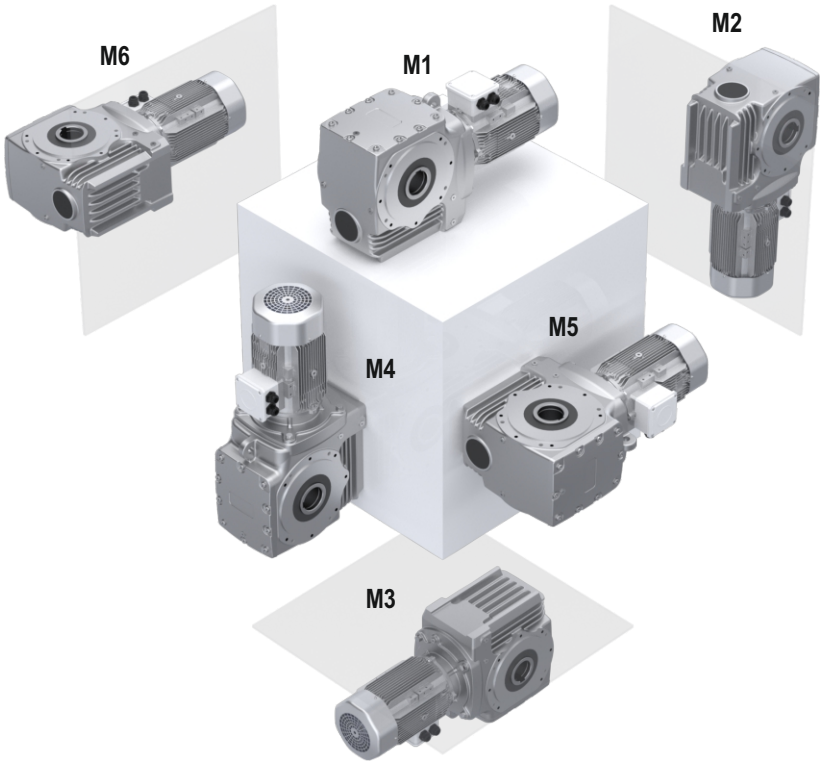
*** 1 - 2 - 3 - 4 :** Zeigt die Position des Klemmkastens an
*** I - II - III - IV:** Zeigt die kabeleinführungsposition an



TR MONTAJ POZİSYONLARI | EN MOUNTING POSITIONS | DE MONTAGEPOSITIONEN

AYAK MONTAJLI
FOOT MOUNTED
FUBBEFESTIGUNG





GÖVDEDEN MONTAJLI
CASE MOUNTED
GEHÄUSE FLANSCHMONTAGE

TR YAĞLAMA

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 yağlanır. 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 dolumdan sonra ilk birkaç saatlik çalışma esnasında yağ seviyesinde azalmalar gözlenebilir. Bu azalma tolerans dahilin 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 şaft üzerinde kullanılan tüm sızdırmazlık elemanları özel kalite malzeme olmalıdır.

Not: Sentetik ve mineral yağlayıcılar birbirine karıştırılmamalıdır.

EN LUBRICATION

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

At montage step, reducers are fulling 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 1000 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 2000 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 adviced 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 windowof 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 ºC and above 60 ºC

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

DE SCHMIERUNG

Vor Inbetriebnahme und längerem Lagern ist der Verschluß 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 Werkstoffquatität einzusetzen.

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 vizkozite sınıfı viscosity class Viskositäts-klasse	SHELL	MOBİL	BP	ESSO	DEA	ARAL	CASTROL	TRIBOL	KLÜBER
Helisel Dişlili Redüktör Helical Gearboxes Stirnrad-getriebe	Mineral yağ Mineral oil Mineralöl	- 5...40 Normal -15...25 # - 50...-15	ISO VG 220 ISO VG 100 ISO VG 15	Shell Omala Oel 220 Shell omala Oel 100 Shell Tellus Oel T 15	Mobilgear 600 XP 220 Mobilgear 600 XP 150 Mobil DTE 10 Excel 15	Energol GR-XP 220 Energol GR-XP 100 Bartran HV 15	Spartan EP 220 Spartan EP 100 Univis J 13	Deagear DX SAE 85W-90 Falcon CLP 220 Deagear DX SAE 80W Falcon CLP 150 Alrkraft Hydraulic Oil 15	Degol BG 220 Degol BG 100 Vitamol 1010	Alpha SP 220 Alpha MW 220 Alpha MAX 220 Alpha SP 100 Alpha MW 100 Alpha MAX 220 Hyspin AWS 15 Hyspin SP 15 Hyspin ZZ 15	Tribol 1100/220 Tribol 1100/100 Tribol 770	Klüberoil GEM 1-220 Klüberoil GEM 1-100 Isoflex MT 30 rot
	Sentetik yağ Synthetic oil 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
	Biyolojik Sentetik yağ Biodegradable oil Biologisches Synthetisches Öl	- 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 optileb GE 220	Tribol Food Proof 1810/220	Klüberoil 4UH1 - 220
	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
Rulmanlar Bearings Lager	Mineral yağlı gres Mineral oil grease Mineralölfett	- 30...60 Normal # 50...110		Alvania Fett R 3 oder Alvania Fett RL 3	Mobilux 3 Mobilux 2	Energrease LS 3 Energrease LS 2	Beacon 3 Beacon 2	Glissando 30 Glissando 20 Glissando FT 3	Aralub HL 3 Aralub HL 2 Aralub BAB EP 2	Spheerol AP 3 Spheerol AP 2 LZV - EP Spheerol EPL 2	Tribol 3030/100-2 Tribol 4020/220-2 Tribol 3785	Centoplex 3 Centoplex 2
	Sentetik gres Synthetic grease synthetisches Fett	# - 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

TR YAĞ MİKTAR TABLOSU | EN LUBRICATION LEVELS | DE SCHMIERSTOFFTABELLE

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
	PSH 2040	0.50	0.65	0.65	0.65	0.55	0.55
	PSH 2050	0.60	1.25	0.80	1.20	0.75	0.75
	PSH 2063	0.45	1.80	1.35	1.65	1.05	1.05
	PSH 2080	0.90	2.75	1.90	3.00	1.85	1.85
	PSH 2100	1.60	6.00	3.80	5.95	3.50	3.50
	PSH 2125	3.10	12.10	6.90	11.30	6.40	6.40

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
	PSH 3050	0.95	1.60	1.20	1.50	1.00	1.00
	PSH 3063	0.90	2.40	1.75	2.10	1.30	1.30
	PSH 3080	1.80	3.35	2.30	3.70	2.10	2.10
	PSH 3100	2.20	8.10	4.40	7.35	4.00	4.00
	PSH 3125	5.10	15.10	7.90	14.50	7.30	7.30

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
	PSH 2040	0.55	0.85	0.80	0.65	0.55	0.55
	PSH 2050	0.40	1.35	0.85	1.20	0.95	0.95
	PSH 2063	0.45	1.60	1.25	1.60	1.35	1.35
	PSH 2080	0.70	3.00	2.25	3.30	2.30	2.30
	PSH 2100	1.35	5.70	4.40	5.00	4.00	4.00
	PSH 2125	3.00	11.20	11.10	10.40	6.80	6.80

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
	PSH 3050	0.85	1.75	1.10	1.70	1.20	1.20
	PSH 3063	0.90	2.10	1.50	1.95	1.60	1.60
	PSH 3080	1.15	3.90	2.50	3.80	2.55	2.55
	PSH 3100	2.15	6.90	5.00	7.10	4.45	4.45
	PSH 3125	4.00	12.90	7.70	12.10	7.70	7.70

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 n1>900 dev/dk ise yağlanma ile aşınmasız çalışır.

Dönüş yönünün tanımlanması her zaman çıkış şaftına ya da miline göre olur. Konik sıktırma kullanılan redüktörlerde konik sıktırma diski, kullanılan konik sıktırma şaftının aksi tarafında bulunur. Konik sıktırmalı redüktörler için dönüş yönü, konik sıktırmalı 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 Rücklaufsperren an. Rücklaufsperren ermöglichen den Lauf in nur eine Drehrichtung (im Uhrzeigersinn oder gegen den Uhrzeigersinn). Drehung in die entgegengesetzte Richtung wird durch die Rücklaufsperre verhindert.
Drehstrommotoren ab Baugröße 80, Wechselstrommotoren und W-Adapter (freie Antriebswelle) können mit geschmierten Rücklaufsperren ausgestattet werden.

Die Rücklaufsperre kann auf Wunsch entfernt werden. Die Rücklaufsperre ist fliehkraftgesteuert und läuft bei einer Drehzahl n1>900 U/min mit Ölung verschleißfrei.

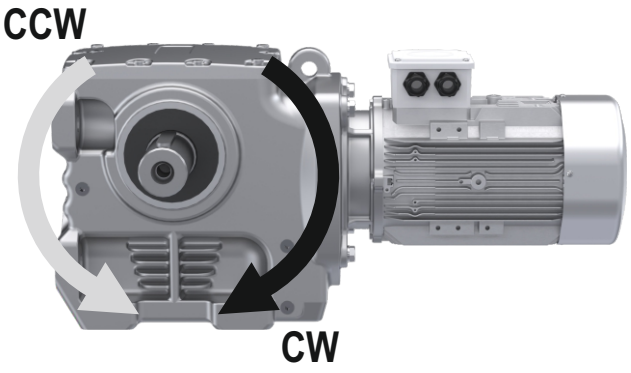
Die Drehrichtung wird immer mit Blick auf die Abtriebs-Hohlwelle oder –Vollwelle angegeben. Bei Getrieben mit Schrumpfscheibe befindet sich die Schrumpfscheibe gegenüber dem Abtriebswellenende. Die Drehrichtung für Getriebe mit Schrumpfscheibe wird auch nach diesem Abtriebswellenende bestimmt.

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

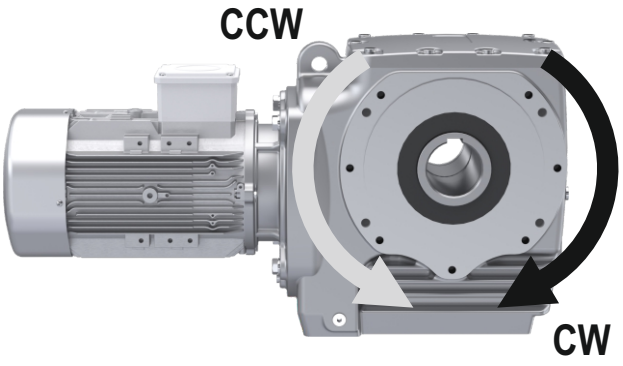
CW: Im Uhrzeigersinn

CCW: Gegen den Uhrzeigersinn

A



B



***Bütün şaft tasarımları ve çift çıkışlı şaftlar için geçerlidir.**

*It is valid for every shaft designs and doble 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" yükleme tipi bulunuyorsa ISO k6.

IEC - ADAPTÖR

Flanş merkezi çap toleransı için ISO H7

GİRİŞ VE ÇIKIŞ ŞAFTLARI

Mil çapı toleransı (DIN 748):

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

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

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

91 - 135

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
> Ø 38 - Ø 50	M16
> Ø 50 - Ø 85	M20
> Ø 85 - Ø 130	M24

91 - 135

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
> Ø 38 - Ø 50	M16
> Ø 50 - Ø 85	M20
> Ø 85 - Ø 130	M24

91 - 135

Paßfedern nach DIN 6885 Achshöhe "h" nach DIN 747

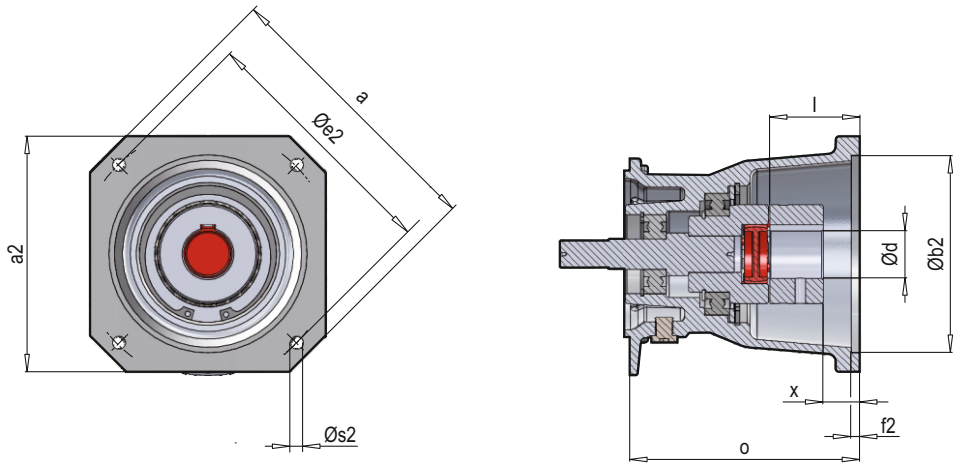
FLANSCHE

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

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

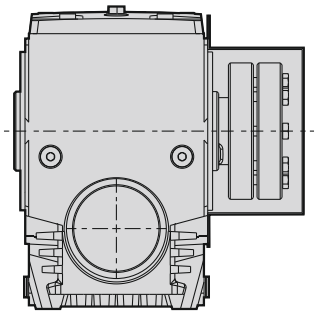
For connecting SEP adapter which is shown above, servo motor's output shaft is designed with locking key. For connecting SEK type adapter, connecting is supplied with a clamp coupling sleeve. An intermediate flange is required when other servo motor types are used with IEC adapter. Offers are manufactured 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 Gewindestifte. Bei abweichendem Anschlussflansch des Servomotor-Anschlussadapters werden Aufträge in hoher Stückzahl in Produktion genommen.

TR KONİK SIKTIRMA

EN SHRINK DISC CONNECTOR

DE SCHRUMPFSCHEIBE



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

Daha iyi ve kolay montaj ve demontaj için konik sıktırmalı tavsiye edilebilir. Hs ölçüsü, cıvata sıkılmadan önceki ölçüsüdür. Konik sıktırma 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 sıktırmanın güvenirliliği.
MA = Cıvatayı sıkmak için gerekli olan tork
Zs = Vida miktarı
Mamax = max. izin verilebilir çıkış momenti

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

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

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.

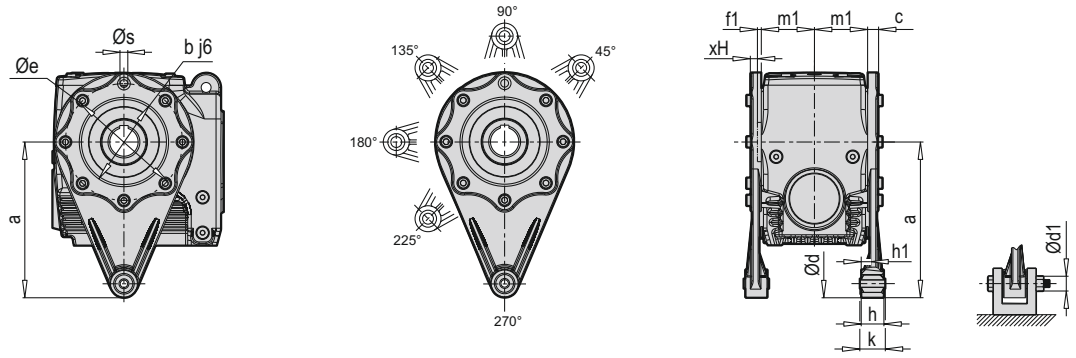
Zur besseren und einfacheren Montage und Demontage kann eine Schrumpfscheibe empfohlen werden. Hs ist die Größe vor dem Anziehen der Schraube. Die Schrumpfscheibe sollten grundsätzlich entgegen der Antriebsrichtung der Kundenwelle montiert werden. Die Länge der Kundenwelle muss der Hohlwelle (mH) entsprechen. 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 TORK KOLU | EN TORQUE ARM | DE DREHMOMENTSTÜTZE

TK



Tork kolunun pozisyonlanması
Positions of torque arm / Positionierung der Drehmomentstütze

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

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

PSH 2050 DG/TK ... 2125 DG/TK für 45°...270°
PSH 3050 DG/TK ... 3125 DG/TK für 45°...270°
Nur 90° - 180° - 270° für PSH 2040

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

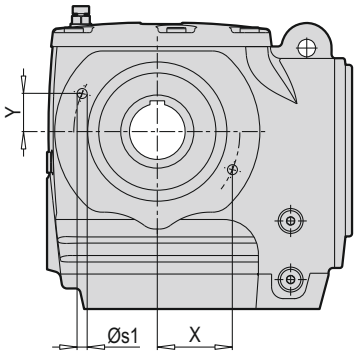
Sipariş verirken tork kolunun pozisyonunu belirtiniz. (Örn. 270°)
Tork kolu L ya da R tarafına bağlanabilir.

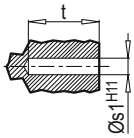
Please indicate position of torque arm when ordering. (Ex. 270°)
Torque arm can be connected at side of L and R.

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

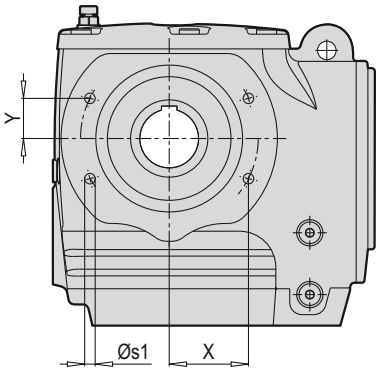
TR MERKEZLEME PİMİ | EN CENTRING PINS | DE ZENTRIERSTIFT

MERKEZLEME PİMİ ÖLÇÜ TABLOSU /
DIMENSION TABLES OF CENTRING PINS / ABMESSUNGSTABELLE ZENTRIERSTIFT





PSH 2050 DG ... PSH 3100 DG

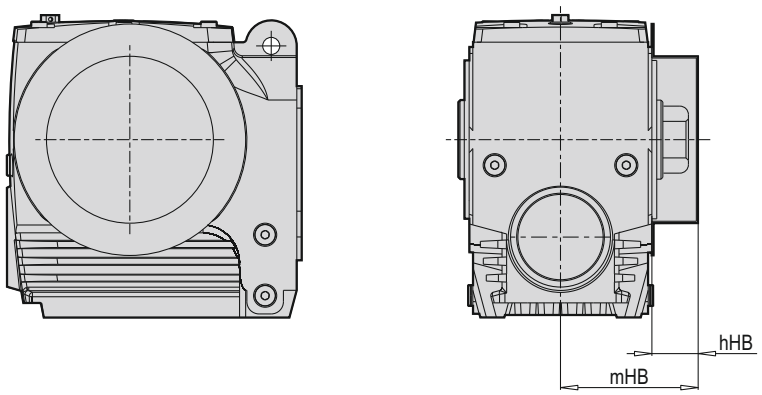


PSH 2125 DG ... PSH 3125 DG

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

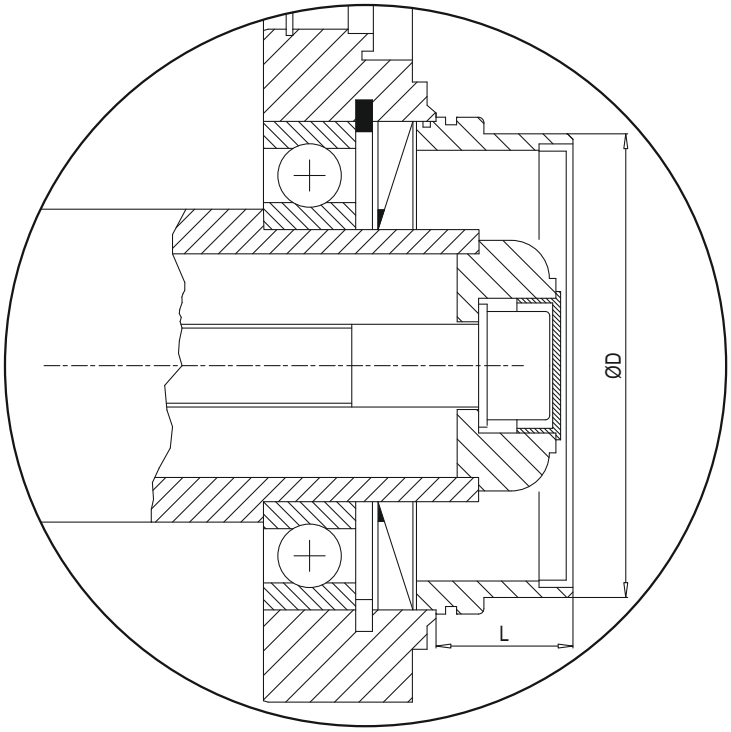
TR KORUMA KAPAĞI | EN PROTECTION COVER | DE SCHUTZDECKEL

ŞAFT KORUMA KAPAĞI ÖLÇÜ TABLOSU
DIMENSION TABLE OF SHAFT COVER / MASSTABELLE FÜR WELLENSCHUTZDECKEL



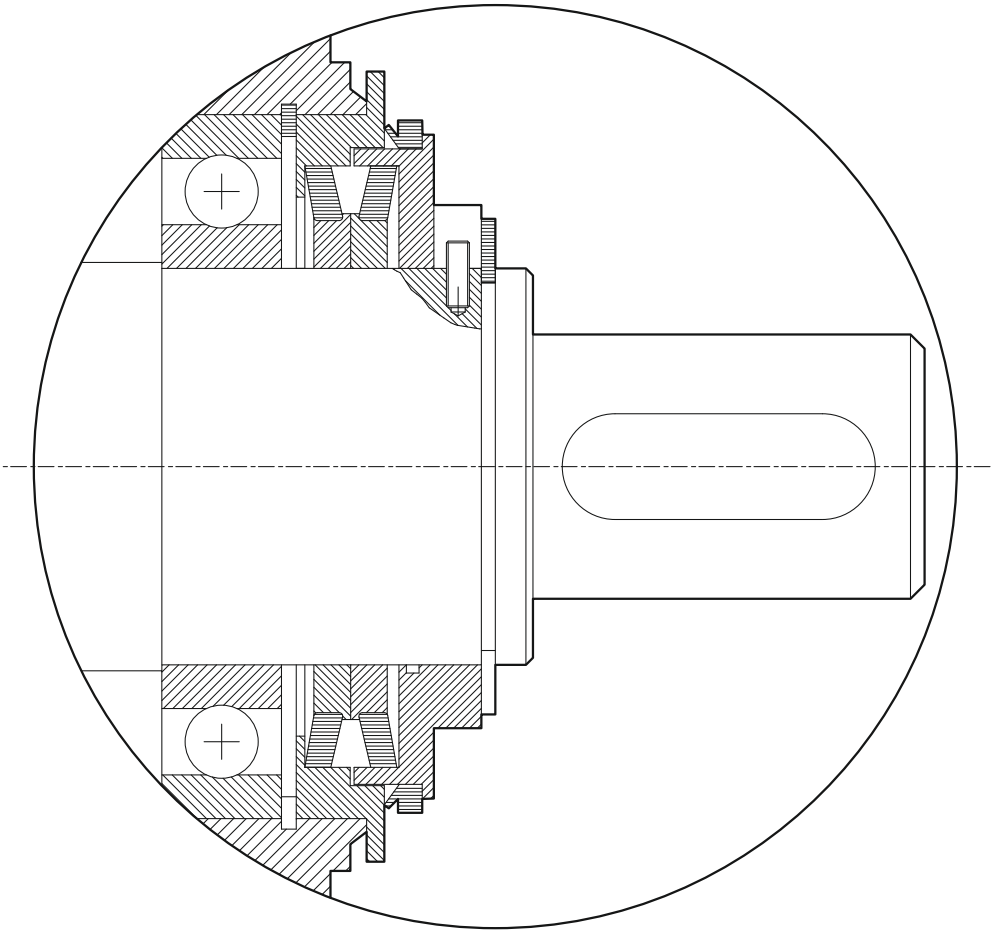
Tip / Type / Typ	**hHB**	**mHB**
PSH 2050 DG/KK **PSH 3050 DG/KK**	38	98
PSH 2063 DG/KK **PSH 3063 DG/KK**	38	105
PSH 2080 DG/KK **PSH 3080 DG/KK**	42	117
PSH 2100 DG/KK **PSH 3100 DG/KK**	50	142
PSH 2125 DG/KK **PSH 3125 DG/KK**	54	169

TR IP 66 UYGULAMASI | EN PROTECTION IP 66 | DE SCHUTZ IP 66



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

TR MEKANİK KEÇE | EN MECHANICAL SEAL | DE GLEITRINGDICHTUNG



Mekanik keçe kullanımı özellikle uzun süreli maruz kalınan kötü çalışma koşullarına uygundur. Sıvı yoğunluğunun çok olduğu daldırmalı 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

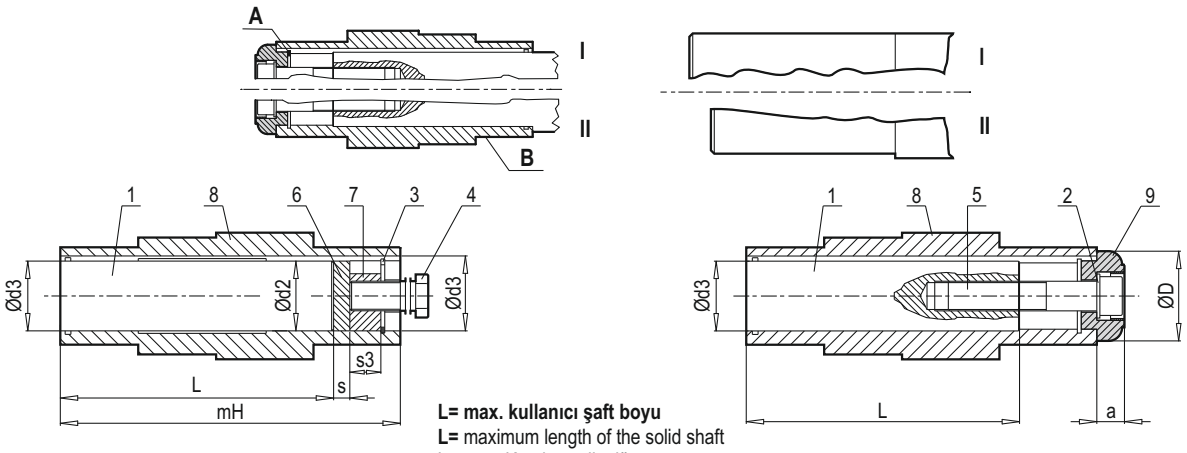
Çektirme Kiti
Değişik gövde büyüklükleri için opsiyonel olarak çektirme kitlerimiz şaft çıkışlı dizaynlarımızda mevcuttur.
Çektirme kiti için kullanım gereksinimleri:
- Kullanılan müşteri milinin alın tarafının merkezinde DIN 332/2 standartlarına uygun bir delik olmalıdır.
- Müşteri mili, faturalı ya 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)

EN PULLER KIT

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

DE AUFZIEHVORRICHTUNG

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)



DEMONTAJ / DISASSEMBLY

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

MONTAJ / ASSEMBLY

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

DEMONTAJ:
1) Alyanbaşlı cıvata sökülmelidir. (5)
2) Çektirme rondelası takılmalıdır. (9)
3) Yaylı rondela takılmalıdır. (6)
4) Somun yerleştirilmelidir. (7)
5) Segman takılmalıdır. (8)
6) Çektirme cıvatası 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 cıvata ve rondela birbirine sabitlenmelidir. (9-5-2)

Kullanım Koşulları (Montaj için):
-Müşteri milinin merkezinde DIN 332/2 standartlarınca dişli 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 Demontageverfahren gilt nur für Vollwellen, deren Abmessung „L" nicht überschreitet.

TR ÇEKTİRME ÖLÇÜ TABLOSU | EN DIMENSION TABLE OF FIXING ELEMENT | DE GRÖßENTABELLE ABZIEHVORRICHTUNG

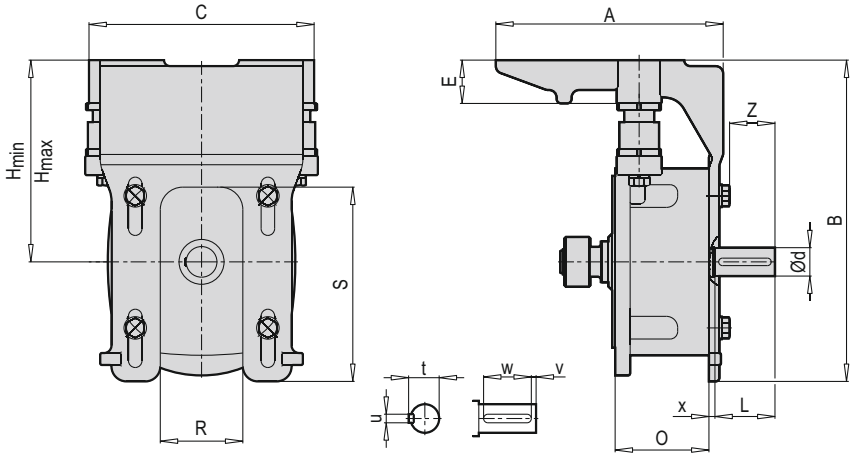
PSH 2040 DG/Ç ... PSH 2125 DG/Ç

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

Tabloda belirtilen numaralar Sayfa 50' de açıklanmaktadır.
The numbers which are specified at table are explained on Page 50.
Die in der Tabelle angegebenen Nummern werden auf Seite 50 erklärt.

TR MOTOR PLATFORMU | EN MOTOR PLATFORM INSTALLATION | DE MOTORKONSOLEN

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 bulundurduğu bağlantı delikleri
* 90° her yöne döndürülebilir yapı
* Seçim tablolarından tahvil oranının İ=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 İ=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 Auswahltabellen, die auch für die entsprechenden mehrstufigen Getriebeausführung Gültigkeit haben.

- Vorteile der PGR-Motorkonsole für den Anwender;

* Leichte und variable Vibrationen dämpfende Konstruktion
* Korrisionssichere Befestigungselemente
* İn allen Einbaupositionen einsetzbar
* Leicht zu handhabende Höhenverstellung für optimale Riemenspannung
* Motorkonsole mit Bohrungen für mehrere Motorbaugrößen
* İn alle Richtungen um 90° schwenkbar
* Empfohlen für Situationen, in denen gemäß Auswahltabelle Übersetzungen i=1,0 sind

TR MOTOR PLATFORMU

EN MOTOR PLATFORM INSTALLATION

DE MOTORKONSOLEN

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

** Ayarlanabilir mesafe (sınırlı)

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.

0,75 kW 17.3 d/dk, i=78,83 → PSH 2080 80M

Redüktör tipinin seçilmesinin ardından motor gövde büyüklüğü ve redüktör tipine bağlı tabloyu kullanarak motor platformu tipini (MK) tespit ediniz (Sayfa 52).

80M → PSH 2080 → 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 54)

** There is a limit distance for adjustment.

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.

0,75 kW 17.3 min^{-1}, i=78,83 → PSH 2080 80M

After selecting the gearbox type, determine the motor platform type (MK) using the table depending on the motor body size and gearbox type (Page 52).

80M → PSH 2080 → 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 54)

Motorkonsole mit Bohrungen für mehrere Motorbaugrößen

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.

0,75 kW 17.3 min^{-1}, i=78,83 → PSH 2080 80M

Nach Auswahl des Getriebetyps ermitteln Sie den Motorkonsolentyp (MK) anhand der Tabelle in Abhängigkeit von Motorbaugröße und Getriebetyp (Seite 52).

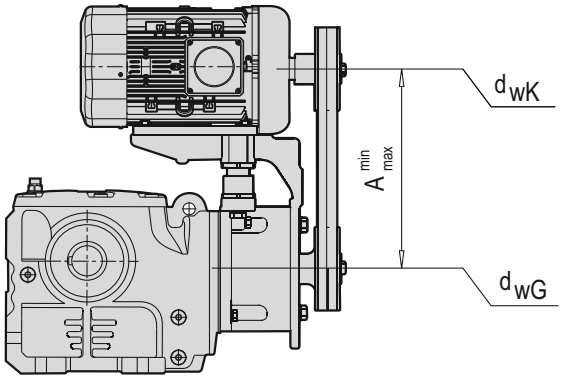
80M → PSH 2080 → MK1

Informationen zu Riementyp, Verstellbereich, Riemenlänge, Achsabstand zwischen 2 Wellen und Anzahl der Riemen können unter Berücksichtigung der Zeile für die Motorkörpergröße gemäß dem MK1- Motorkonsolentyp ermittelt werden. (Seite 54)

TR V KAYIŞ VE KAYIŞ KASNAK SEÇİMİ

EN V BELT AND BELT PULLEY SELECTION

DE AUSWAHL VON V RIEMEN UND RIEMENSCHEIBE



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

* Kayış kasnak aksesuarları PGR tarafından temin edilmemektedir.

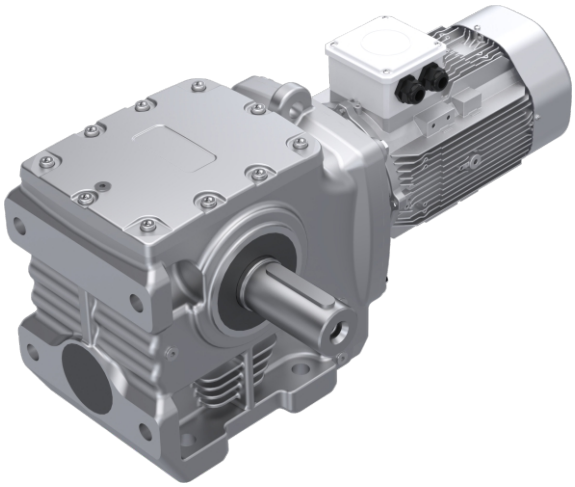
*Belt pulley accessories are not provided by PGR.

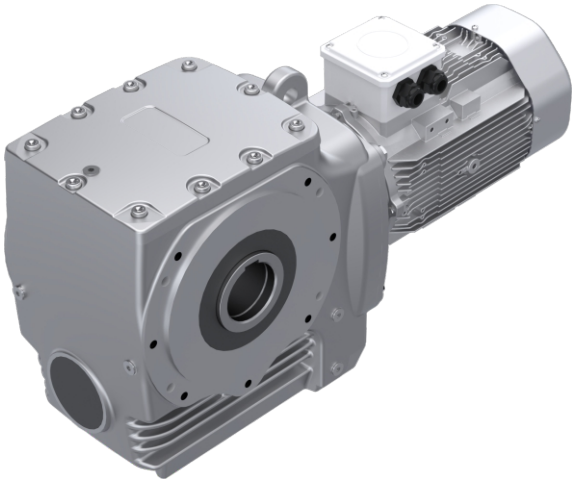
*Riemenscheibenzubehör wird nicht von PGR geliefert.

Motorlu Seçim Tabloları

Selection Tables of Geared motors

Auswahltabellen der Getriebemotoren





PSH

TR TEKNİK AÇIKLAMALAR | EN TECHNICAL DESCRIPTIONS | DE TECHNISCHE BESCHREIBUNGEN

0.55 kW → **Redüktör motor gücü**
Gear unit motor power
Getriebemotorleistung

Motor gücü
Rated motor power
Motornennleistung

Çıkış devri
Output speed
Leistungsgeschwindigkeit

Çıkış momenti
Output torque
Abtriebsdrehmoment

Servis faktörü
Service factor
Betriebsfaktor

Tahvil oranı
Reduction ratio
Übersetzungsverhältnis

Redüktör tipi
Gear unit motor type
Getriebetyp

Ağırlık
Weight
Gewicht

Ölçü sayfaları
Drawing pages
Zeichnungsseite

P_1 [kW]	n_2 [Min^{-1}]	M_2 [Nm]	f_B	i_{ges}	F_R [N]	F_A [N]	$F_{R\,GR}$ [N]	$F_{A\,GR}$ [N]	Tip / Type / Typ IE2 / IE3	kg	mm
0.55	0.7	3782	0.8	2057.43	-	-	-	-	PSH 3125 80M4B / 80M4C	113	132-133
	0.8	3424	0.9	1862.28	-	-	-	-			
	0.9	3073	1.0	1637.95	-	-	-	-			
	0.9	2767	1.1	1475.08	27.0	21.0	-	-			
	1.2	2293	1.3	1198.50	25.0	21.0	27.0	28.0			
	1.5	1811	1.7	928.25	27.0	21.0	27.0	28.0			
	1.8	1578	2.0	793.81	27.0	21.0	27.0	28.0			

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

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

Die aufgeführten Werte für zulässige Radiallasten FR für Normallager werden mit FA = 0 (N) berechnet.

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

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

Die aufgeführten Werte für zulässige Axiallasten FA für verstärkte Lager werden mit FR = 0 (N) berechnet.

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

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

Die aufgeführten Werte für zulässige Axiallasten FA für Normallager werden mit FR = 0 (N) berechnet.

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

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

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 [N]	F_A [N]	$F_{R\,GR}$ [N]	$F_{A\,GR}$ [N]	Tip / Type / Typ IE2 / IE3	Kg	mm
0.12	0.2	2140	0.8	3735.56	16.0	12.0	-	-	PSH 3100 63M6C / 63M6B	65	124-125
	0.4	1290	1.3	2201.85	16.0	12.0	-	-			
	0.5	978	1.7	1670.37	16.0	12.0	-	-			
	0.6	902	1.9	1506.84	16.0	12.0	16.0	16.0			
	0.8	703	2.4	1173.93	16.0	12.0	16.0	16.0			
	0.3	1750	0.9	4646.67	-	-	-	-	PSH 3100 63M4A	65	124-125
	0.4	1407	1.1	3735.56	-	-	-	-			
	0.6	847	1.9	2201.85	-	-	-	-			
	0.8	643	2.5	1670.37	-	-	-	-			
	0.9	592	2.7	1506.84	16.0	12.0	16.0	16.0			
	0.8	702	1.2	1199.07	9.0	9.0	13.0	12.0	PSH 3080 63M6C / 63M6B	40	116-117
	0.9	560	1.4	955.78	9.0	9.0	13.0	12.0			
	1.1	482	1.7	805.70	10.0	9.0	13.0	12.0			
	1.3	422	1.9	705.97	10.0	9.0	13.0	12.0			
	1.4	378	2.1	631.62	8.0	9.0	-	-			
	1.7	332	2.4	543.06	8.0	9.0	-	-			
	1.9	294	2.7	481.23	8.0	9.0	-	-			
	2.2	339	2.4	402.93	8.0	9.0	-	-			
	2.6	285	2.6	339.66	8.0	9.0	-	-			
	3.0	254	2.5	297.62	8.0	9.0	-	-			
	3.4	227	2.6	266.27	8.0	9.0	-	-			
	4.6	190	2.5	193.65	8.0	9.0	-	-			
	5.5	160	2.5	163.25	8.0	9.0	-	-			
	6.3	140	2.5	143.04	8.0	9.0	-	-			
	7.0	127	2.5	127.97	8.0	9.0	-	-			
	8.2	109	2.5	110.03	8.0	9.0	-	-			
	9.2	97	2.5	97.50	8.0	9.0	-	-			
	0.5	979	0.8	2658.80	-	-	-	-	PSH 3080 63M4A	40	116-117
	0.7	775	1.0	2059.27	-	-	-	-			
	1.2	461	1.7	1199.07	9.0	9.0	13.0	12.0			
	1.5	368	2.1	955.78	9.0	9.0	13.0	12.0			
	1.7	317	2.4	805.70	10.0	9.0	13.0	12.0			
	2.0	283	2.7	705.97	10.0	9.0	13.0	12.0			
	2.2	253	3.0	631.62	-	-	-	-			
	1.4	393	1.9	656.63	10.0	9.0	13.0	12.0	PSH 2080 63M6C / 63M6B	34	112-113
	2.1	263	2.7	656.63	10.0	9.0	13.0	12.0	PSH 2080 63M4A	34	112-113
	1.2	442	0.9	738.56	4.0	4.0	-	-	PSH 3063 63M6C / 63M6B	26	108-109
	1.5	362	1.1	604.27	4.0	4.0	-	-			
	1.7	318	1.3	532.19	4.0	4.0	-	-			
	1.9	288	1.4	471.21	4.0	4.0	-	-			
	2.3	327	1.2	395.60	4.0	4.0	-	-			
	2.6	289	1.4	349.65	4.0	4.0	-	-			
	2.9	262	1.5	311.35	4.0	4.0	-	-			
	3.5	214	1.8	254.74	4.0	4.0	-	-			
	4.0	189	2.1	224.36	4.0	4.0	-	-			
	4.5	167	2.3	198.65	4.0	4.0	-	-			
	5.0	171	2.1	178.60	4.0	4.0	-	-			
	6.2	141	2.5	146.13	4.0	4.0	-	-			
	7.0	125	2.5	128.70	4.0	4.0	-	-			
	7.9	110	2.5	113.95	4.0	4.0	-	-			
	9.3	95	2.5	97.18	4.0	4.0	-	-			
	11.3	84	2.5	79.65	4.0	4.0	-	-			
	13.8	69	2.6	65.17	4.0	4.0	-	-			
	1.5	361	1.1	938.40	-	-	-	-	PSH 3063 63M4A	26	108-109
	1.9	290	1.3	738.56	-	-	-	-			
	2.3	237	1.6	604.27	-	-	-	-			
	2.6	213	1.8	532.19	-	-	-	-			
	3.0	189	2.0	471.21	-	-	-	-			
	3.5	214	1.8	395.60	-	-	-	-			
	4.0	189	2.0	349.65	-	-	-	-			
	4.5	168	2.3	311.35	-	-	-	-			
	5.5	140	2.6	254.74	-	-	-	-			
	6.2	123	3.0	224.36	-	-	-	-			

P_1 [kW]	n_2 [Min^{-1}]	M_2 [Nm]	f_B	i_{ges}	F_R [N]	F_A [N]	$F_{R\,GR}$ [N]	$F_{A\,GR}$ [N]	Tip / Type / Typ IE2 / IE3	Kg	mm
0.12	1.4	375	1.0	626.57	7.0	8.0	10.0	10.0	PSH 2063 63M6C / 63M6B	24	104-105
	1.7	317	1.2	529.13	7.0	8.0	10.0	10.0			
	1.9	284	1.3	464.67	8.0	8.0	10.0	10.0			
	3.4	222	1.7	264.14	8.0	8.0	10.0	10.0			
	4.0	187	2.0	223.06	8.0	8.0	11.0	10.0			
	4.6	167	2.3	195.89	8.0	8.0	11.0	10.0			
	4.9	122	2.8	183.60	8.0	8.0	11.0	10.0			
	5.5	107	3.0	162.27	8.0	8.0	11.0	10.0			
	2.2	246	1.5	626.57	7.0	8.0	10.0	10.0	PSH 2063 63M4A	24	104-105
	2.6	212	1.7	529.13	7.0	8.0	10.0	10.0			
	3.0	186	1.9	464.67	8.0	8.0	10.0	10.0			
	5.3	145	2.4	264.14	8.0	8.0	10.0	10.0			
	6.3	122	2.9	223.06	8.0	8.0	11.0	10.0			
	2.2	252	0.8	412.72	4.0	8.0	-	-	PSH 3050 63M6C / 63M6B	25	100-101
	3.1	246	0.8	292.73	4.0	8.0	-	-			
	4.3	178	1.1	209.09	4.0	8.0	-	-			
	4.9	155	1.3	182.08	5.0	8.0	-	-			
	5.7	155	1.3	158.10	5.0	8.0	-	-			
	6.5	136	1.5	138.77	5.0	8.0	-	-			
	7.3	120	1.7	122.67	5.0	8.0	-	-			
	9.1	98	2.0	99.12	5.0	8.0	-	-			
	10.4	86	2.2	86.32	5.0	8.0	-	-			
	11.8	81	1.8	76.58	5.0	8.0	-	-			
	13.4	71	1.9	67.22	5.0	8.0	-	-			
	15.1	63	2.2	59.42	5.0	8.0	-	-			
	18.7	51	2.3	48.01	5.0	8.0	-	-			
	21.5	45	2.6	41.81	5.0	8.0	-	-			
	2.4	230	0.8	586.50	4.0	8.0	6.0	8.0	PSH 3050 63M4A	25	100-101
	3.0	190	1.0	473.94	-	-	-	-			
	3.4	166	1.2	412.72	-	-	-	-			
	4.2	183	1.1	333.50	-	-	-	-			
	4.8	161	1.2	292.73	-	-	-	-			
	6.7	116	1.7	209.09	-	-	-	-			
	7.7	101	1.9	182.08	5.0	8.0	6.0	8.0			
	8.9	101	1.9	158.10	-	-	-	-			
	10.1	89	2.2	138.77	-	-	-	-			
	11.4	78	2.5	122.67	-	-	-	-			
	14.1	63	3.0	99.12	-	-	-	-			
	18.3	52	2.7	76.58	-	-	-	-			
	20.8	46	2.8	67.22	-	-	-	-			
	2.3	236	0.8	385.33	5.0	8.0	6.0	8.0	PSH 2050 63M6C / 63M6B	19	96-97
	3.9	197	1.0	231.43	5.0	8.0	6.0	8.0			
	4.6	166	1.2	194.06	5.0	8.0	6.0	8.0			
	5.3	145	1.3	170.00	6.0	8.0	6.0	8.0			
	6.1	98	1.9	147.90	6.0	8.0	6.0	8.0			
	6.9	86	2.1	129.82	6.0	8.0	6.0	8.0			
	7.8	77	2.3	114.75	4.0	3.0	6.0	8.0			
	9.7	64	2.8	92.73	4.0	3.0	6.0	8.0			
	13.8	58	3.0	65.25	4.0	3.0	6.0	8.0			
	2.7	210	0.9	524.57	4.0	8.0	6.0	8.0	PSH 2050 63M4A	19	96-97
	3.2	176	1.0	439.88	5.0	8.0	6.0	8.0			
	3.6	158	1.2	385.33	5.0	8.0	6.0	8.0			
	6.0	127	1.5	231.43	5.0	8.0	6.0	8.0			
	7.2	108	1.7	194.06	5.0	8.0	6.0	8.0			
	8.2	95	2.0	170.00	6.0	8.0	6.0	8.0			
	9.5	65	2.7	147.90	6.0	8.0	6.0	8.0			
	10.8	58	2.9	129.82	6.0	8.0	6.0	8.0			

P_1 [kW]	n_2 [Min^{-1}]	M_2 [Nm]	f_B	i_{ges}	F_R [N]	F_A [N]	$F_{R\,GR}$ [N]	$F_{A\,GR}$ [N]	Tip / Type / Typ IE2 / IE3	Kg	mm
0.12	7.0	110	1.0	128.70	4.0	4.0	-	-	PSH 2040 63M6C / 63M6B	15	92-93
	7.8	75	1.3	115.23	4.0	4.0	-	-			
	8.9	86	1.2	100.65	4.0	4.0	-	-			
	9.0	66	1.5	99.45	4.0	4.0	-	-			
	10.4	58	1.6	86.86	4.0	4.0	-	-			
	11.8	52	1.7	76.38	4.0	4.0	-	-			
	13.3	46	1.9	67.50	4.0	4.0	-	-			
	15.1	59	1.8	59.80	4.0	4.0	-	-			
	17.3	36	2.3	52.00	4.0	4.0	-	-			
	19.2	46	2.3	46.77	4.0	4.0	-	-			
	20.1	32	2.7	44.78	4.0	4.0	-	-			
	21.4	38	2.4	42.08	4.0	4.0	-	-			
	24.5	33	2.6	36.75	4.0	4.0	-	-			
	27.9	29	2.8	32.31	4.0	4.0	-	-			
	31.5	26	3.0	28.56	4.0	4.0	-	-			
	4.6	122	0.8	304.20	3.0	4.0	-	-	PSH 2040 63M4A	15	92-93
	5.9	97	1.0	237.90	3.0	4.0	-	-			
	10.9	72	1.4	128.70	4.0	4.0	-	-			
	12.1	50	1.9	115.23	4.0	4.0	-	-			
	13.9	56	1.8	100.65	-	-	-	-			
	14.1	44	2.1	99.45	4.0	4.0	-	-			
	16.1	38	2.3	86.86	4.0	4.0	-	-			
	18.3	34	2.5	76.38	4.0	4.0	-	-			
	20.7	31	2.7	67.50	4.0	4.0	-	-			
	23.4	38	2.6	59.80	4.0	4.0	-	-			
0.18	0.3	3157	1.0	3442.96	27.0	21.0	-	-	PSH 3125 71M6B / 71M6A	111	132-133
	0.4	2317	1.4	2527.75	27.0	21.0	-	-			
	0.4	1886	1.7	2057.43	27.0	21.0	-	-			
	0.5	1707	1.9	1862.28	27.0	21.0	-	-			
	0.5	1533	2.1	1637.95	27.0	21.0	-	-			
	0.6	1381	2.4	1475.08	27.0	21.0	27.0	28.0			
	0.8	1122	2.9	1198.50	27.0	21.0	27.0	28.0			
	0.4	1935	0.9	2201.85	16.0	12.0	-	-	PSH 3100 71M6B / 71M6A	68	124-125
	0.5	1468	1.1	1670.37	16.0	12.0	-	-			
	0.6	1353	1.2	1506.84	16.0	12.0	16.0	16.0			
	0.8	1054	1.6	1173.93	16.0	12.0	16.0	16.0			
	1.4	618	2.7	660.00	16.0	12.0	16.0	16.0			
	0.4	2110	0.8	3735.56	-	-	-	-	PSH 3100 63M4B	65	124-125
	0.6	1271	1.3	2201.85	-	-	-	-			
	0.8	964	1.6	1670.37	-	-	-	-			
	0.9	888	1.8	1506.84	16.0	12.0	16.0	16.0			
	1.2	692	2.3	1173.93	16.0	12.0	16.0	16.0			
	0.6	1341	0.9	4646.67	16.0	12.0	-	-	PSH 3100 63M2A	65	124-125
	0.7	1078	1.1	3735.56	16.0	12.0	-	-			
	1.3	649	1.9	2201.85	16.0	12.0	-	-			
	1.7	492	2.5	1670.37	16.0	12.0	-	-			
	1.9	453	2.7	1506.84	16.0	12.0	16.0	16.0			
	1.4	604	2.5	645.00	16.0	12.0	16.0	16.0	PSH 2100 71M6B / 71M6A	59	120-121
	0.8	1054	0.8	1199.07	7.0	9.0	12.0	12.0	PSH 3080 71M6B / 71M6A	43	116-117
	0.9	840	1.0	955.78	8.0	9.0	13.0	12.0			
	1.1	723	1.1	805.70	9.0	9.0	13.0	12.0			
	1.3	634	1.3	705.97	9.0	9.0	13.0	12.0			
	1.4	567	1.4	631.62	8.0	9.0	-	-			
	1.7	498	1.6	543.06	8.0	9.0	-	-			
	1.9	441	1.8	481.23	8.0	9.0	-	-			
	2.2	508	1.6	402.93	8.0	9.0	-	-			
	2.6	428	1.7	339.66	8.0	9.0	-	-			
	3.0	381	1.7	297.62	8.0	9.0	-	-			
	3.4	341	1.8	266.27	8.0	9.0	-	-			
	3.9	293	2.0	228.94	8.0	9.0	-	-			
	4.6	285	1.7	193.65	8.0	9.0	-	-			
	5.5	240	1.7	163.25	8.0	9.0	-	-			
	6.3	210	1.7	143.04	8.0	9.0	-	-			
	7.0	191	1.7	127.97	8.0	9.0	-	-			
	8.2	164	1.7	110.03	8.0	9.0	-	-			
	9.2	145	1.7	97.50	8.0	9.0	-	-			

P_1 [kW]	n_2 [Min^{-1}]	M_2 [Nm]	f_B	i_{ges}	F_R [N]	F_A [N]	$F_{R\,GR}$ [N]	$F_{A\,GR}$ [N]	Tip / Type / Typ IE2 / IE3	Kg	mm
0.18	1.2	692	1.1	1199.07	7.0	9.0	12.0	12.0	PSH 3080 63M4B	40	116-117
	1.5	552	1.4	955.78	8.0	9.0	13.0	12.0			
	1.7	475	1.6	805.70	9.0	9.0	13.0	12.0			
	2.0	425	1.8	705.97	9.0	9.0	13.0	12.0			
	2.2	380	2.0	631.62	-	-	-	-			
	2.6	333	2.3	543.06	-	-	-	-			
	2.9	295	2.6	481.23	-	-	-	-			
	3.5	331	2.3	402.93	-	-	-	-			
	4.1	284	2.5	339.66	-	-	-	-			
	4.7	248	2.5	297.62	-	-	-	-			
	5.3	222	2.6	266.27	-	-	-	-			
	6.1	194	2.9	228.94	-	-	-	-			
	7.2	185	2.4	193.65	-	-	-	-			
	8.6	156	2.4	163.25	-	-	-	-			
	9.8	137	2.5	143.04	-	-	-	-			
	10.9	124	2.4	127.97	-	-	-	-			
	12.7	107	2.4	110.03	-	-	-	-			
	14.4	95	2.4	97.50	-	-	-	-			
	1.1	751	0.8	2658.80	7.0	9.0	-	-	PSH 3080 63M2A	40	116-117
	1.4	594	1.0	2059.27	7.0	9.0	-	-			
	2.3	353	1.7	1199.07	7.0	9.0	12.0	12.0			
	2.9	282	2.1	955.78	8.0	9.0	13.0	12.0			
	3.5	242	2.4	805.70	9.0	9.0	13.0	12.0			
	4.0	217	2.7	705.97	9.0	9.0	13.0	12.0			
	4.4	194	3.0	631.62	8.0	9.0	-	-			
	1.4	589	1.3	656.63	9.0	9.0	13.0	12.0	PSH 2080 71M6B / 71M6A	37	112-113
	1.7	477	1.6	520.20	10.0	9.0	13.0	12.0			
	2.2	377	2.0	402.90	10.0	9.0	13.0	12.0			
	3.3	354	2.1	276.81	10.0	9.0	13.0	12.0			
	2.1	395	1.8	656.63	9.0	9.0	13.0	12.0	PSH 2080 63M4B	34	112-113
	4.3	202	2.7	656.63	9.0	9.0	13.0	12.0	PSH 2080 63M2A	34	112-113
	1.7	478	0.8	532.19	4.0	4.0	-	-	PSH 3063 71M6B / 71M6A	29	108-109
	1.9	432	0.9	471.21	4.0	4.0	-	-			
	2.3	491	0.8	395.60	4.0	4.0	-	-			
	2.6	434	0.9	349.65	4.0	4.0	-	-			
	2.9	392	1.0	311.35	4.0	4.0	-	-			
	3.5	321	1.2	254.74	4.0	4.0	-	-			
	4.0	283	1.4	224.36	4.0	4.0	-	-			
	4.5	250	1.5	198.65	4.0	4.0	-	-			
	5.0	256	1.4	178.60	4.0	4.0	-	-			
	6.2	212	1.6	146.13	4.0	4.0	-	-			
	7.0	187	1.7	128.70	4.0	4.0	-	-			
	7.9	165	1.7	113.95	4.0	4.0	-	-			
	9.3	143	1.7	97.18	4.0	4.0	-	-			
	11.3	126	1.7	79.65	4.0	4.0	-	-			
	13.8	103	1.7	65.17	4.0	4.0	-	-			
	1.9	435	0.9	738.56	-	-	-	-	PSH 3063 63M4B	26	108-109
	2.3	356	1.1	604.27	-	-	-	-			
	2.6	320	1.2	532.19	-	-	-	-			
	3.0	284	1.3	471.21	-	-	-	-			
	3.5	321	1.2	395.60	-	-	-	-			
	4.0	283	1.3	349.65	-	-	-	-			
	4.5	252	1.5	311.35	-	-	-	-			
	5.5	210	1.8	254.74	-	-	-	-			
	6.2	185	2.0	224.36	-	-	-	-			
	7.0	166	2.2	198.65	-	-	-	-			
	7.8	167	2.0	178.60	-	-	-	-			
	9.6	138	2.4	146.13	-	-	-	-			
	10.9	122	2.5	128.70	4.0	4.0	-	-			
	12.3	108	2.4	113.95	-	-	-	-			
	14.4	93	2.5	97.18	-	-	-	-			
	17.6	82	2.4	79.65	-	-	-	-			
	21.5	67	2.5	65.17	-	-	-	-			

P_1 [kW]	n_2 [Min^{-1}]	M_2 [Nm]	f_B	i_{ges}	F_R [N]	F_A [N]	$F_{R\,GR}$ [N]	$F_{A\,GR}$ [N]	Tip / Type / Typ IE2 / IE3	Kg	mm
0.18	3.0	277	1.0	938.40	4.0	4.0	-	-	PSH 3063 63M2A	26	108-109
	3.8	222	1.3	738.56	4.0	4.0	-	-			
	4.6	182	1.6	604.27	4.0	4.0	-	-			
	5.3	163	1.8	532.19	4.0	4.0	-	-			
	5.9	145	2.0	471.21	4.0	4.0	-	-			
	7.1	163	1.8	395.60	4.0	4.0	-	-			
	8.0	144	2.0	349.65	4.0	4.0	-	-			
	9.0	128	2.3	311.35	4.0	4.0	-	-			
	11.0	106	2.6	254.74	4.0	4.0	-	-			
	12.5	94	3.0	224.36	4.0	4.0	-	-			
	1.7	475	0.8	529.13	7.0	8.0	10.0	10.0	PSH 2063 71M6B / 71M6A	27	108-109
	1.9	426	0.9	464.67	7.0	8.0	10.0	10.0			
	2.2	379	1.0	413.10	7.0	8.0	-	-			
	3.4	333	1.1	264.14	7.0	8.0	11.0	10.0			
	4.0	281	1.3	223.06	8.0	8.0	11.0	10.0			
	4.6	251	1.5	195.89	8.0	8.0	11.0	10.0			
	4.9	182	1.9	182.60	8.0	8.0	11.0	10.0			
	5.5	161	2.0	162.27	8.0	8.0	11.0	10.0			
	6.2	146	2.2	144.50	8.0	8.0	11.0	10.0			
	7.6	122	2.5	118.23	7.0	8.0	11.0	10.0			
	8.6	109	2.8	104.13	7.0	8.0	11.0	10.0			
	2.2	369	1.0	626.57	6.0	8.0	10.0	10.0	PSH 2063 63M4B	24	108-109
	2.6	318	1.1	529.13	7.0	8.0	10.0	10.0			
	3.0	280	1.3	464.67	7.0	8.0	10.0	10.0			
	5.3	217	1.6	264.14	7.0	8.0	11.0	10.0			
	6.3	184	2.0	223.06	8.0	8.0	11.0	10.0			
	7.1	164	2.2	195.89	8.0	8.0	11.0	10.0			
	7.6	122	2.7	183.60	8.0	8.0	11.0	10.0			
	8.6	110	2.8	162.27	8.0	8.0	11.0	10.0			
	9.7	99	3.0	144.50	8.0	8.0	11.0	10.0			
	4.5	188	1.5	626.57	6.0	8.0	10.0	10.0	PSH 2063 63M2A	24	108-109
	5.3	162	1.7	529.13	7.0	8.0	10.0	10.0			
	6.0	143	1.9	464.67	7.0	8.0	10.0	10.0			
	10.6	110	2.4	264.14	7.0	8.0	11.0	10.0			
	12.6	93	2.9	223.06	8.0	8.0	11.0	10.0			
	4.3	268	0.8	209.09	4.0	8.0	-	-	PSH 3050 71M6B / 71M6A	28	100-101
	4.9	233	0.9	182.08	5.0	8.0	6.0	6.0			
	5.7	233	0.9	158.10	5.0	8.0	-	-			
	6.5	204	1.0	138.77	5.0	8.0	-	-			
	7.3	180	1.1	122.67	5.0	8.0	-	-			
	9.1	148	1.4	99.12	5.0	8.0	-	-			
	10.4	129	1.5	86.32	5.0	8.0	-	-			
	11.8	121	1.2	76.58	5.0	8.0	-	-			
	13.4	107	1.3	67.22	5.0	8.0	-	-			
	15.1	94	1.4	59.42	5.0	8.0	-	-			
	18.7	76	1.5	48.01	5.0	8.0	-	-			
	21.5	67	1.7	41.81	5.0	8.0	-	-			
	3.4	248	0.8	412.72	-	-	-	-	PSH 3050 63M4B	25	100-101
	4.8	241	0.8	292.73	-	-	-	-			
	6.7	175	1.1	209.09	-	-	-	-			
	7.7	152	1.3	182.08	5.0	8.0	6.0	6.0			
	8.9	151	1.3	158.10	-	-	-	-			
	10.1	133	1.5	138.77	-	-	-	-			
	11.4	117	1.7	122.67	-	-	-	-			
	14.1	95	2.0	99.12	-	-	-	-			
	16.2	84	2.1	86.32	-	-	-	-			
	18.3	78	1.8	76.58	-	-	-	-			
	20.8	69	1.9	67.22	-	-	-	-			
	23.6	61	2.1	59.42	-	-	-	-			
	29.2	50	2.2	48.01	-	-	-	-			
	33.5	43	2.6	41.81	-	-	-	-			

P_1 [kW]	n_2 [Min^{-1}]	M_2 [Nm]	f_B	i_{ges}	F_R [N]	F_A [N]	$F_{R\,GR}$ [N]	$F_{A\,GR}$ [N]	Tip / Type / Typ IE2 / IE3	Kg	mm
0.18	4.8	176	0.8	586.50	4.0	8.0	-	-			
	5.9	145	1.0	473.94	4.0	8.0	-	-			
	6.8	127	1.2	412.72	4.0	8.0	-	-			
	8.4	139	1.1	333.50	4.0	8.0	-	-			
	9.6	122	1.2	292.73	4.0	8.0	-	-			
	13.4	89	1.7	209.09	4.0	8.0	-	-			
	15.4	77	1.9	182.08	5.0	8.0	6.0	6.0	**PSH 3050 63M2A**	25	100-101
	17.7	77	1.9	158.10	5.0	8.0	-	-			
	20.2	67	2.2	138.77	5.0	8.0	-	-			
	22.8	59	2.5	122.67	5.0	8.0	-	-			
	28.2	48	3.0	99.12	5.0	8.0	-	-			
	36.6	39	2.7	76.58	5.0	8.0	-	-			
	41.7	35	2.8	67.22	5.0	8.0	-	-			
	4.6	248	0.8	194.06	5.0	8.0	6.0	8.0			
	5.3	218	0.9	170.00	5.0	8.0	6.0	8.0			
	6.1	147	1.3	147.90	6.0	8.0	6.0	8.0			
	6.9	129	1.4	129.82	6.0	8.0	6.0	8.0			
	7.8	116	1.5	114.75	6.0	8.0	6.0	8.0			
	9.7	96	1.8	92.73	6.0	8.0	6.0	8.0	**PSH 2050 71M6B / 71M6A**	22	96-97
	11.1	85	2.1	80.75	6.0	8.0	6.0	8.0			
	13.8	87	2.0	65.25	6.0	8.0	6.0	8.0			
	15.7	77	2.3	57.27	4.0	8.0	6.0	8.0			
	17.8	69	2.4	50.63	4.0	8.0	6.0	8.0			
	22.0	56	2.9	40.91	4.0	8.0	8.0	8.0			
	3.6	237	0.8	385.33	-	-	6.0	8.0			
	6.0	190	1.0	231.43	5.0	8.0	6.0	8.0			
	7.2	162	1.1	194.06	5.0	8.0	6.0	8.0			
	8.2	142	1.3	170.00	5.0	8.0	6.0	8.0			
	9.5	98	1.8	147.90	6.0	8.0	6.0	8.0	**PSH 2050 63M4B**	19	96-97
	10.8	88	1.9	129.82	6.0	8.0	6.0	8.0			
	12.2	79	2.1	114.75	6.0	8.0	6.0	8.0			
	15.1	65	2.6	92.73	6.0	8.0	6.0	8.0			
	17.3	58	2.9	80.75	6.0	8.0	6.0	8.0			
	21.5	58	2.9	65.25	6.0	8.0	6.0	8.0			
	5.3	161	0.9	524.57	5.0	8.0	6.0	8.0			
	6.4	135	1.0	439.88	5.0	8.0	6.0	8.0			
	7.3	121	1.2	385.33	5.0	8.0	6.0	8.0			
	12.1	97	1.5	231.43	5.0	8.0	6.0	8.0	**PSH 2050 63M2A**	19	96-97
	14.4	82	1.7	194.06	5.0	8.0	6.0	8.0			
	16.5	72	2.0	170.00	5.0	8.0	6.0	8.0			
	18.9	50	2.7	147.90	6.0	8.0	6.0	8.0			
	21.6	45	2.9	129.82	6.0	8.0	6.0	8.0			
	7.8	112	0.9	115.23	4.0	4.0	-	-			
	8.9	129	0.8	100.65	4.0	4.0	-	-			
	9.0	99	1.0	99.45	4.0	4.0	-	-			
	10.4	86	1.1	86.86	4.0	4.0	-	-			
	11.8	77	1.2	76.38	4.0	4.0	-	-			
	13.3	70	1.2	67.50	4.0	4.0	-	-			
	15.1	89	1.2	59.80	4.0	4.0	-	-			
	17.3	55	1.6	52.00	4.0	4.0	-	-	**PSH 2040 71M6B / 71M6A**	18	92-93
	19.2	70	1.5	46.77	4.0	4.0	-	-			
	20.1	48	1.8	44.78	3.0	4.0	-	-			
	21.4	56	1.6	42.08	4.0	4.0	-	-			
	24.5	49	1.7	36.75	4.0	4.0	-	-			
	27.9	44	1.9	32.31	4.0	4.0	-	-			
	31.5	39	2.0	28.56	4.0	4.0	-	-			
	40.9	30	2.5	22.00	3.0	4.0	-	-			
	46.0	30	2.8	19.55	3.0	4.0	-	-			

P_1 [kW]	n_2 [Min^{-1}]	M_2 [Nm]	f_B	i_{ges}	F_R [N]	F_A [N]	$F_{R\,GR}$ [N]	$F_{A\,GR}$ [N]	Tip / Type / Typ IE2 / IE3	Kg	mm
0.18	10.9	107	0.9	128.70	4.0	4.0	-	-	PSH 2040 63M4B	15	92-93
	12.1	75	1.3	115.23	4.0	4.0	-	-			
	13.9	84	1.2	100.65	-	-	-	-			
	14.1	66	1.4	99.45	4.0	4.0	-	-			
	16.1	58	1.5	86.86	4.0	4.0	-	-			
	18.3	52	1.6	76.38	4.0	4.0	-	-			
	20.7	46	1.8	67.50	4.0	4.0	-	-			
	23.4	57	1.7	59.80	4.0	4.0	-	-			
	26.9	37	2.2	52.00	4.0	4.0	-	-			
	29.9	45	2.2	46.77	4.0	4.0	-	-			
	31.3	32	2.5	44.78	-	-	-	-			
	33.3	37	2.3	42.08	4.0	4.0	-	-			
	38.1	32	2.5	36.75	4.0	4.0	-	-			
	43.3	29	2.7	32.31	4.0	4.0	-	-			
	49.0	26	2.9	28.56	4.0	4.0	-	-			
	9.2	93	0.8	304.20	4.0	4.0	-	-	PSH 2040 63M2A	15	92-93
	11.8	74	1.0	237.90	4.0	4.0	-	-			
	21.8	55	1.4	128.70	4.0	4.0	-	-			
	24.3	38	1.9	115.23	4.0	4.0	-	-			
	27.8	43	1.8	100.65	4.0	4.0	-	-			
	28.2	34	2.1	99.45	4.0	4.0	-	-			
	32.2	29	2.3	86.86	4.0	4.0	-	-			
	36.7	26	2.5	76.38	4.0	4.0	-	-			
	41.5	24	2.6	67.50	4.0	4.0	-	-			
	46.8	29	2.6	59.80	4.0	4.0	-	-			
0.25	0.4	3219	1.0	2527.75	27.0	21.0	-	-	PSH 3125 71M6C / 71M6D	111	132-133
	0.4	2620	1.2	2057.43	27.0	21.0	-	-			
	0.5	2371	1.4	1862.28	27.0	21.0	-	-			
	0.5	2129	1.5	1637.95	27.0	21.0	-	-			
	0.6	1917	1.7	1475.08	27.0	21.0	27.0	28.0			
	0.8	1558	2.1	1198.50	27.0	21.0	27.0	28.0			
	0.4	2818	1.1	3442.96	-	-	-	-	PSH 3125 71M4A / 71M4B	111	132-133
	0.6	2112	1.5	2527.75	-	-	-	-			
	0.7	1719	1.8	2057.43	-	-	-	-			
	0.8	1556	2.0	1862.28	-	-	-	-			
	0.9	1397	2.2	1637.95	-	-	-	-			
	0.9	1258	2.5	1475.08	27.0	21.0	27.0	28.0			
	1.2	1042	3.0	1198.50	27.0	21.0	27.0	28.0			
	0.5	2038	0.8	1670.37	16.0	12.0	-	-	PSH 3100 71M6C / 71M6D	68	124-125
	0.6	1879	0.9	1506.84	14.0	12.0	16.0	16.0			
	0.8	1464	1.1	1173.93	16.0	12.0	16.0	16.0			
	1.4	858	1.9	660.00	16.0	12.0	16.0	16.0			
	1.7	689	2.4	519.44	16.0	12.0	-	-			
	1.9	622	2.7	468.59	16.0	12.0	-	-			
	0.6	1765	0.9	2201.85	-	-	-	-	PSH 3100 71M4A / 71M4B	68	124-125
	0.8	1339	1.2	1670.37	-	-	-	-			
	0.9	1233	1.3	1506.84	14.0	12.0	16.0	16.0			
	1.2	961	1.7	1173.93	16.0	12.0	16.0	16.0			
	2.1	574	2.8	660.00	16.0	12.0	16.0	16.0			
	0.7	1497	0.8	3735.56	16.0	12.0	-	-	PSH 3100 63M2B	65	124-125
	1.3	901	1.3	2201.85	16.0	12.0	-	-			
	1.7	684	1.8	1670.37	16.0	12.0	-	-			
	1.9	630	1.9	1506.84	14.0	12.0	16.0	16.0			
	2.4	490	2.5	1173.93	16.0	12.0	16.0	16.0			
	1.4	838	1.8	645.00	16.0	12.0	16.0	16.0	PSH 2100 71M6C / 71M6D	59	120-121
	2.2	561	2.5	645.00	16.0	12.0	16.0	16.0	PSH 2100 71M4A / 71M4B	59	120-121

P_1 [kW]	n_2 [Min^{-1}]	M_2 [Nm]	f_B	i_{ges}	F_R [N]	F_A [N]	$F_{R\,GR}$ [N]	$F_{A\,GR}$ [N]	Tip / Type / Typ IE2 / IE3	Kg	mm
0.25	1.1	1005	0.8	805.70	7.0	9.0	12.0	13.0	PSH 3080 71M6C / 71M6D	43	116-117
	1.3	880	0.9	705.97	8.0	9.0	13.0	13.0			
	1.4	788	1.0	631.62	8.0	9.0	-	-			
	1.7	691	1.2	543.06	8.0	9.0	-	-			
	1.9	613	1.3	481.23	8.0	9.0	-	-			
	2.2	705	1.1	402.93	8.0	9.0	-	-			
	2.6	595	1.2	339.66	8.0	9.0	-	-			
	3.0	529	1.2	297.62	8.0	9.0	-	-			
	3.4	473	1.3	266.27	8.0	9.0	-	-			
	3.9	407	1.5	228.94	8.0	9.0	-	-			
	4.6	396	1.2	193.65	8.0	9.0	-	-			
	5.5	333	1.2	163.25	8.0	9.0	-	-			
	6.3	292	1.2	143.04	8.0	9.0	-	-			
	7.0	265	1.2	127.97	8.0	9.0	-	-			
	8.2	228	1.2	110.03	8.0	9.0	-	-			
	9.2	202	1.2	97.50	8.0	9.0	-	-			
	1.2	961	0.8	1199.07	1.0	9.0	13.0	12.0	PSH 3080 71M4A / 71M4B	43	116-117
	1.5	766	1.0	955.78	5.0	9.0	13.0	12.0			
	1.7	660	1.2	805.70	7.0	9.0	13.0	12.0			
	2.0	590	1.3	705.97	8.0	9.0	13.0	12.0			
	2.2	528	1.5	631.62	-	-	-	-			
	2.6	463	1.7	543.06	-	-	-	-			
	2.9	410	1.9	481.23	-	-	-	-			
	3.5	460	1.7	402.93	-	-	-	-			
	4.1	394	1.8	339.66	-	-	-	-			
	4.7	345	1.8	297.62	-	-	-	-			
	5.3	309	1.8	266.27	-	-	-	-			
	6.1	269	2.1	228.94	-	-	-	-			
	7.2	258	1.7	193.65	-	-	-	-			
	8.6	217	1.7	163.25	-	-	-	-			
	9.8	190	1.8	143.04	-	-	-	-			
	10.9	172	1.7	127.97	-	-	-	-			
	12.7	148	1.8	110.03	-	-	-	-			
	14.4	131	1.8	97.50	-	-	-	-			
	2.3	491	1.2	1199.07	1.0	9.0	13.0	12.0	PSH 3080 63M2B	40	116-117
	2.9	391	1.5	955.78	5.0	9.0	13.0	12.0			
	3.5	337	1.7	805.70	7.0	9.0	13.0	12.0			
	4.0	301	1.9	705.97	8.0	9.0	13.0	12.0			
	4.4	269	2.2	631.62	8.0	9.0	-	-			
	5.2	236	2.5	543.06	8.0	9.0	-	-			
	5.8	209	2.8	481.23	8.0	9.0	-	-			
	6.9	234	2.5	402.93	8.0	9.0	-	-			
	8.2	200	2.7	339.66	8.0	9.0	-	-			
	9.4	175	2.6	297.62	8.0	9.0	-	-			
	10.5	157	2.8	266.27	8.0	9.0	-	-			
	14.5	130	2.6	193.65	8.0	9.0	-	-			
	17.2	110	2.6	163.25	8.0	9.0	-	-			
	19.6	96	2.7	143.04	8.0	9.0	-	-			
	21.9	87	2.6	127.97	8.0	9.0	-	-			
	25.4	75	2.6	110.03	8.0	9.0	-	-			
	28.7	67	2.6	97.50	8.0	9.0	-	-			
	1.4	819	0.9	656.63	8.0	9.0	13.0	12.0	PSH 2080 71M6C / 71M6D	37	112-113
	1.7	662	1.1	520.20	5.0	9.0	12.0	12.0			
	2.2	524	1.4	402.90	7.0	9.0	11.0	12.0			
	3.3	492	1.5	276.81	10.0	9.0	13.0	12.0			
	3.8	324	2.3	234.60	9.0	9.0	13.0	12.0			
	4.8	268	2.6	187.00	9.0	9.0	13.0	12.0			
	2.1	549	1.3	656.63	8.0	9.0	13.0	12.0	PSH 2080 71M4A / 71M4B	37	112-113
	2.7	444	1.6	520.20	-	-	12.0	12.0			
	3.5	350	2.0	402.90	-	-	11.0	12.0			
	5.1	321	2.2	276.81	10.0	9.0	13.0	12.0			
	4.3	280	1.9	656.63	8.0	9.0	13.0	12.0	PSH 2080 63M2B	34	112-113

P_1 [kW]	n_2 [Min^{-1}]	M_2 [Nm]	f_B	i_{ges}	F_R [N]	F_A [N]	$F_{R\,GR}$ [N]	$F_{A\,GR}$ [N]	Tip / Type / Typ IE2 / IE3	Kg	mm
0.25	3.5	446	0.9	254.74	4.0	4.0	-	-	PSH 3063 71M6C / 71M6D	29	108-109
	4.0	393	1.0	224.36	4.0	4.0	-	-			
	4.5	348	1.1	198.65	4.0	4.0	-	-			
	5.0	355	1.0	178.60	4.0	4.0	-	-			
	6.2	295	1.2	146.13	4.0	4.0	-	-			
	7.0	259	1.2	128.70	4.0	4.0	-	-			
	7.9	230	1.2	113.95	4.0	4.0	-	-			
	9.3	199	1.2	97.18	4.0	4.0	-	-			
	11.3	175	1.2	79.65	4.0	4.0	-	-			
	13.8	143	1.2	65.17	4.0	4.0	-	-			
	2.3	495	0.8	604.27	-	-	-	-	PSH 3063 71M4A / 71M4B	29	108-109
	2.6	445	0.9	532.19	-	-	-	-			
	3.0	394	1.0	471.21	-	-	-	-			
	3.5	445	0.9	395.60	-	-	-	-			
	4.0	394	1.0	349.65	-	-	-	-			
	4.5	350	1.1	311.35	-	-	-	-			
	5.5	291	1.3	254.74	-	-	-	-			
	6.2	256	1.4	224.36	-	-	-	-			
	7.0	230	1.6	198.65	-	-	-	-			
	7.8	231	1.5	178.60	-	-	-	-			
	9.6	192	1.7	146.13	-	-	-	-			
	10.9	169	1.8	128.70	4.0	4.0	-	-			
	12.3	150	1.7	113.95	-	-	-	-			
	14.4	129	1.8	97.18	-	-	-	-			
	17.6	114	1.8	79.65	-	-	-	-			
	21.5	93	1.8	65.17	-	-	-	-			
	3.0	384	0.8	938.40	4.0	4.0	-	-	PSH 3063 63M2B	26	108-109
	3.8	309	0.9	738.56	4.0	4.0	-	-			
	4.6	252	1.1	604.27	4.0	4.0	-	-			
	5.3	227	1.3	532.19	4.0	4.0	-	-			
	5.9	201	1.4	471.21	4.0	4.0	-	-			
	7.1	226	1.3	395.60	4.0	4.0	-	-			
	8.0	200	1.4	349.65	4.0	4.0	-	-			
	9.0	178	1.6	311.35	4.0	4.0	-	-			
	11.0	148	1.9	254.74	4.0	4.0	-	-			
	12.5	130	2.2	224.36	4.0	4.0	-	-			
	14.1	117	2.3	198.65	4.0	4.0	-	-			
	15.7	117	2.2	178.60	4.0	4.0	-	-			
	19.2	97	2.6	146.13	4.0	4.0	-	-			
	21.8	86	2.7	128.70	4.0	4.0	-	-			
	24.6	76	2.6	113.95	4.0	4.0	-	-			
	23.8	65	2.7	97.18	4.0	4.0	-	-			
	35.2	58	2.6	79.65	4.0	4.0	-	-			
	43.0	47	2.7	65.17	4.0	4.0	-	-			
	3.4	462	0.8	264.14	7.0	8.0	10.0	10.0	PSH 2063 71M6C / 71M6D	27	104-105
	4.0	391	1.0	223.06	7.0	8.0	11.0	10.0			
	4.6	348	1.1	195.89	7.0	8.0	11.0	10.0			
	4.9	253	1.3	183.60	8.0	8.0	11.0	10.0			
	5.5	224	1.5	162.27	8.0	8.0	11.0	10.0			
	6.2	203	1.6	144.50	8.0	8.0	11.0	10.0			
	7.6	169	1.8	118.23	8.0	8.0	11.0	10.0			
	8.6	152	2.0	104.13	8.0	8.0	11.0	10.0			
	9.8	137	2.3	92.19	6.0	8.0	11.0	10.0			
	11.6	144	2.2	77.40	6.0	8.0	11.0	10.0			
	13.2	127	2.4	68.41	6.0	8.0	11.0	10.0			
	14.8	115	2.6	60.92	6.0	8.0	11.0	10.0			
	18.1	95	2.9	49.84	6.0	8.0	11.0	10.0			
	2.6	442	0.8	529.13	5.0	8.0	10.0	10.0	PSH 2063 71M4A / 71M4B	27	104-105
	3.0	388	0.9	464.67	6.0	8.0	10.0	10.0			
	3.4	352	1.0	413.10	-	-	-	-			
	5.3	302	1.2	264.14	7.0	8.0	10.0	10.0			
	6.3	255	1.4	223.06	7.0	8.0	11.0	10.0			
	7.1	227	1.6	195.89	7.0	8.0	11.0	10.0			
	7.6	169	1.9	183.60	8.0	8.0	11.0	10.0			
	8.6	152	2.0	162.27	8.0	8.0	11.0	10.0			
	9.7	138	2.2	144.50	8.0	8.0	11.0	10.0			
	11.8	117	2.5	118.23	8.0	8.0	11.0	10.0			
	13.4	105	2.8	104.13	8.0	8.0	11.0	10.0			

P_1 [kW]	n_2 [Min^{-1}]	M_2 [Nm]	f_B	i_{ges}	F_R [N]	F_A [N]	$F_{R\,GR}$ [N]	$F_{A\,GR}$ [N]	Tip / Type / Typ IE2 / IE3	Kg	mm
0.25	4.5	262	1.0	626.57	5.0	8.0	10.0	10.0	PSH 2063 63M2B	24	104-105
	5.3	226	1.2	529.13	5.0	8.0	10.0	10.0			
	6.0	198	1.4	464.67	6.0	8.0	10.0	10.0			
	10.6	153	1.7	264.14	7.0	8.0	11.0	10.0			
	12.6	129	2.1	223.06	7.0	8.0	11.0	10.0			
	14.3	115	2.4	195.89	7.0	8.0	11.0	10.0			
	15.3	86	2.9	183.60	8.0	8.0	11.0	10.0			
	17.3	77	3.0	162.27	8.0	8.0	11.0	10.0			
	7.3	251	0.8	122.67	5.0	8.0	-	-	PSH 3050 71M6C / 71M6D	28	100-101
	9.1	205	1.0	99.12	5.0	8.0	-	-			
	10.4	179	1.1	86.32	5.0	8.0	-	-			
	11.8	169	0.9	76.58	5.0	8.0	-	-			
	13.4	148	0.9	67.22	5.0	8.0	-	-			
	15.1	131	1.0	59.42	5.0	8.0	-	-			
	18.7	106	1.1	48.01	5.0	8.0	-	-			
	21.5	93	1.2	41.81	5.0	8.0	-	-			
	6.7	242	0.8	209.09	-	-	-	-	PSH 3050 71M4A / 71M4B	28	100-101
	7.7	211	0.9	182.08	5.0	8.0	6.0	6.0			
	8.9	210	0.9	158.10	-	-	-	-			
	10.1	185	1.1	138.77	-	-	-	-			
	11.4	163	1.2	122.67	-	-	-	-			
	14.1	132	1.4	99.12	-	-	-	-			
	16.2	116	1.5	86.32	-	-	-	-			
	18.3	108	1.3	76.58	-	-	-	-			
	20.8	96	1.4	67.22	-	-	-	-			
	23.6	85	1.5	59.42	-	-	-	-			
	29.2	69	1.6	48.01	-	-	-	-			
	33.5	60	1.8	41.81	-	-	-	-			
	6.8	176	0.8	412.72	4.0	8.0	-	-	PSH 3050 63M2B	25	100-101
	8.4	193	0.8	333.50	4.0	8.0	-	-			
	9.6	170	0.9	292.73	4.0	8.0	-	-			
	13.4	123	1.2	209.09	4.0	8.0	-	-			
	15.4	107	1.4	182.08	5.0	8.0	-	-			
	17.7	106	1.4	158.10	5.0	8.0	-	-			
	20.2	93	1.6	138.77	5.0	8.0	-	-			
	22.8	83	1.8	122.67	5.0	8.0	-	-			
	28.2	67	2.2	99.12	5.0	8.0	-	-			
	32.4	59	2.3	86.32	5.0	8.0	-	-			
	36.6	55	1.9	76.58	5.0	8.0	-	-			
	41.7	49	2.0	67.22	5.0	8.0	-	-			
	47.1	43	2.3	59.42	5.0	8.0	-	-			
	58.3	35	2.4	48.01	5.0	8.0	-	-			
	67.0	30	2.8	41.81	5.0	8.0	-	-			
	6.1	204	0.9	147.90	5.0	8.0	6.0	8.0	PSH 2050 71M6C / 71M6D	22	96-97
	6.9	179	1.0	129.82	5.0	8.0	6.0	8.0			
	7.8	161	1.1	114.75	6.0	8.0	6.0	8.0			
	9.7	133	1.3	92.73	6.0	8.0	6.0	8.0			
	11.1	118	1.5	80.75	6.0	8.0	6.0	8.0			
	13.8	121	1.5	65.25	6.0	8.0	6.0	8.0			
	15.7	106	1.7	57.27	6.0	8.0	6.0	8.0			
	17.8	95	1.7	50.63	6.0	8.0	6.0	8.0			
	22.0	78	2.1	40.91	6.0	8.0	6.0	8.0			
	25.3	68	2.4	35.63	5.0	8.0	6.0	8.0			
	29.1	66	2.5	30.93	5.0	8.0	6.0	8.0			
	33.1	58	2.8	27.15	5.0	8.0	6.0	8.0			
	7.2	225	0.8	194.06	5.0	8.0	6.0	8.0	PSH 2050 71M4A / 71M4B	22	96-97
	8.2	197	0.9	170.00	5.0	8.0	6.0	8.0			
	9.5	136	1.3	147.90	5.0	8.0	6.0	8.0			
	10.8	122	1.4	129.82	5.0	8.0	6.0	8.0			
	12.2	110	1.5	114.75	6.0	8.0	6.0	8.0			
	15.1	90	1.9	92.73	6.0	8.0	6.0	8.0			
	17.3	80	2.1	80.75	6.0	8.0	6.0	8.0			
	21.5	80	2.1	65.25	6.0	8.0	6.0	8.0			
	24.4	70	2.4	57.27	6.0	8.0	6.0	8.0			
	27.7	63	2.5	50.63	6.0	8.0	6.0	8.0			
	34.2	52	3.0	40.91	6.0	8.0	6.0	8.0			

P_1 [kW]	n_2 [Min^{-1}]	M_2 [Nm]	f_B	i_{ges}	F_R [N]	F_A [N]	$F_{R\,GR}$ [N]	$F_{A\,GR}$ [N]	Tip / Type / Typ IE2 / IE3	Kg	mm
0.25	7.3	168	0.8	385.33	5.0	8.0	6.0	8.0	PSH 2050 63M2B	19	96-97
	12.1	134	1.0	231.43	5.0	8.0	6.0	8.0			
	14.4	114	1.2	194.06	5.0	8.0	6.0	8.0			
	16.5	100	1.4	170.00	5.0	8.0	6.0	8.0			
	18.9	69	1.9	147.90	5.0	8.0	6.0	8.0			
	21.6	62	2.1	129.82	5.0	8.0	6.0	8.0			
	24.4	56	2.3	114.75	6.0	8.0	6.0	8.0			
	30.2	46	2.8	92.73	6.0	8.0	6.0	8.0			
	10.4	120	0.8	86.86	4.0	4.0	-	-	PSH 2040 71M6C / 71M6D	18	92-93
	11.8	107	0.8	76.38	4.0	4.0	-	-			
	13.3	97	0.9	67.50	4.0	4.0	-	-			
	15.1	124	0.8	59.80	4.0	4.0	-	-			
	17.3	76	1.1	52.00	4.0	4.0	-	-			
	19.2	97	1.1	46.77	4.0	4.0	-	-			
	20.1	67	1.3	44.78	3.0	4.0	-	-			
	21.4	78	1.1	42.08	4.0	4.0	-	-			
	24.5	68	1.2	36.75	4.0	4.0	-	-			
	27.9	61	1.3	32.31	4.0	4.0	-	-			
	31.5	54	1.5	28.56	4.0	4.0	-	-			
	40.9	42	1.8	22.00	4.0	4.0	-	-			
	46.0	41	2.0	19.55	4.0	4.0	-	-			
	52.7	36	2.3	17.08	4.0	4.0	-	-			
	60.0	32	2.4	15.01	4.0	4.0	-	-			
	67.8	29	2.7	13.27	4.0	4.0	-	-			
	12.1	104	0.9	115.23	4.0	4.0	-	-	PSH 2040 71M4A / 71M4B	18	92-93
	13.9	117	0.9	100.65	-	-	-	-			
	14.1	92	1.0	99.45	3.0	4.0	-	-			
	16.1	80	1.1	86.86	4.0	4.0	-	-			
	18.3	72	1.2	76.38	4.0	4.0	-	-			
	20.7	64	1.3	67.50	4.0	4.0	-	-			
	23.4	80	1.3	59.80	4.0	4.0	-	-			
	26.9	51	1.6	52.00	4.0	4.0	-	-			
	29.9	63	1.6	46.77	4.0	4.0	-	-			
	31.3	45	1.8	44.78	-	-	-	-			
	33.3	51	1.7	42.08	4.0	4.0	-	-			
	38.1	45	1.8	36.75	4.0	4.0	-	-			
	43.3	40	2.0	32.31	4.0	4.0	-	-			
	49.0	36	2.1	28.56	4.0	4.0	-	-			
	63.6	28	2.6	22.00	4.0	4.0	-	-			
	71.6	27	3.0	19.55	4.0	4.0	-	-			
	21.8	76	1.0	128.70	4.0	4.0	-	-	PSH 2040 63M2B	15	92-93
	24.3	53	1.3	115.23	4.0	4.0	-	-			
	27.8	59	1.3	100.65	4.0	4.0	-	-			
	28.2	47	1.5	99.45	3.0	4.0	-	-			
	32.2	41	1.6	86.86	4.0	4.0	-	-			
	36.7	36	1.8	76.38	4.0	4.0	-	-			
	41.5	33	1.9	67.50	4.0	4.0	-	-			
	46.8	40	1.9	59.80	4.0	4.0	-	-			
	53.8	26	2.4	52.00	4.0	4.0	-	-			
	59.9	32	2.4	46.77	4.0	4.0	-	-			
	62.5	23	2.7	44.78	3.0	4.0	-	-			
	66.5	26	2.5	42.08	4.0	4.0	-	-			
	76.2	23	2.7	36.75	4.0	4.0	-	-			
	86.7	20	2.9	32.31	4.0	4.0	-	-			
0.37	0.4	3877	0.8	2057.43	27.0	21.0	-	-	PSH 3125 80M6A	113	132-133
	0.5	3510	0.9	1862.28	27.0	21.0	-	-			
	0.5	3151	1.0	1637.95	27.0	21.0	-	-			
	0.6	2838	1.1	1475.08	27.0	21.0	27.0	28.0			
	0.8	2306	1.4	1198.50	27.0	21.0	27.0	28.0			
	1.0	1822	1.8	928.25	27.0	21.0	27.0	28.0			
	1.1	1589	2.0	793.81	27.0	21.0	27.0	28.0			
	1.3	1816	1.6	690.49	27.0	21.0	27.0	28.0			
	1.5	1598	1.8	607.31	27.0	21.0	27.0	28.0			
	1.6	1439	2.3	546.92	27.0	21.0	27.0	28.0			
	2.0	1186	2.6	444.38	27.0	21.0	27.0	28.0			
	2.4	1029	2.7	380.02	27.0	21.0	27.0	28.0			
	2.8	875	2.9	323.00	27.0	21.0	27.0	28.0			

P_1 [kW]	n_2 [Min^{-1}]	M_2 [Nm]	f_B	i_{ges}	F_R [N]	F_A [N]	$F_{R\,GR}$ [N]	$F_{A\,GR}$ [N]	Tip / Type / Typ IE2 / IE3	Kg	mm
0.37	0.6 0.7 0.8 0.9 0.9 1.2	3126 2544 2303 2067 1861 1543	1.0 1.2 1.3 1.5 1.7 2.0	2527.75 2057.43 1862.28 1637.95 1475.08 1198.50	- - - - 27.0 27.0	- - - - 21.0 21.0	- - - - 27.0 27.0	- - - - 28.0 28.0	**PSH 3125 71M4B / 71M4C**	111	132-133
	0.6 0.8 1.1 1.4 1.5 1.7 1.9 2.3	3126 2129 1595 1298 1175 1054 949 786	0.8 1.1 1.5 1.8 2.0 2.2 2.5 3.0	5055.49 3442.96 2527.75 2057.43 1862.28 1637.95 1475.08 1198.50	27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0	21.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0	- - - - - - 27.0 27.0	- - - - - - 28.0 28.0	**PSH 3125 71M2A**	111	132-133
	1.4 1.7 1.9 2.5 3.0 3.5 4.9	1270 1020 920 745 622 697 502	1.3 1.6 1.8 2.1 2.6 2.3 3.0	660.00 519.44 468.59 365.06 298.69 257.40 182.75	16.0 16.0 16.0 16.0 16.0 16.0 16.0	12.0 12.0 12.0 12.0 12.0 12.0 12.0	16.0 16.0 16.0 16.0 16.0 - -	16.0 16.0 16.0 16.0 16.0 - -	**PSH 3100 80M6A**	70	124-125
	0.8 0.9 1.2 2.1 2.7 3.0 3.8	1981 1826 1422 850 682 627 507	0.8 0.9 1.1 1.9 2.3 2.5 3.0	1670.37 1506.84 1173.93 660.00 519.44 468.59 365.06	- 14.0 13.0 16.0 16.0 16.0 16.0	- 12.0 12.0 12.0 12.0 12.0 12.0	- - 16.0 16.0 16.0 16.0 16.0	- - 16.0 16.0 16.0 16.0 16.0	**PSH 3100 71M4B / 71M4C**	68	124-125
	1.3 1.7 1.9 2.4 4.2	1334 1012 932 726 433	0.9 1.2 1.3 1.7 2.8	2201.85 1670.37 1506.84 1173.93 660.00	16.0 16.0 14.0 13.0 16.0	12.0 12.0 12.0 12.0 12.0	- - - 16.0 16.0	- - - 16.0 16.0	**PSH 3100 71M2A**	68	124-125
	1.4 1.8 3.7	1241 1001 522	1.2 1.5 2.9	645.00 510.00 241.67	16.0 16.0 16.0	12.0 12.0 12.0	16.0 16.0 16.0	16.0 16.0 16.0	**PSH 2100 80M6A**	61	120-121
	2.2	830	1.7	645.00	16.0	12.0	16.0	16.0	**PSH 2100 71M4B / 71M4C**	59	120-121
	4.3	423	2.5	645.00	16.0	12.0	16.0	16.0	**PSH 2100 71M2A**	59	120-121
	1.7 2.0 2.2 2.6 2.9 3.5 4.1 4.7 5.3 6.1 7.2 8.6 9.8 10.9 12.7 14.4	976 873 781 685 607 681 583 511 457 399 381 321 282 255 219 194	0.8 0.9 1.0 1.1 1.3 1.1 1.2 1.2 1.2 1.4 1.2 1.2 1.2 1.2 1.2 1.2	805.70 705.97 631.62 543.06 481.23 402.93 339.66 297.62 266.27 228.94 193.65 163.25 143.04 127.97 110.03 97.50	- 8.0 - - - - - - - - - - - - - -	- 9.0 - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - -	**PSH 3080 71M4B / 71M4C**	43	116-117

P_1 [kW]	n_2 [Min^{-1}]	M_2 [Nm]	f_B	i_{ges}	F_R [N]	F_A [N]	$F_{R\,GR}$ [N]	$F_{A\,GR}$ [N]	Tip / Type / Typ IE2 / IE3	Kg	mm
0.37	2.3	726	0.8	1199.07	7.0	9.0	-	-	PSH 3080 71M2A	43	116-117
	2.9	579	1.0	955.78	7.0	9.0	-	-			
	3.5	498	1.2	805.70	7.0	9.0	-	-			
	4.0	445	1.3	705.97	8.0	9.0	-	-			
	4.4	399	1.5	631.62	8.0	9.0	-	-			
	5.2	350	1.7	543.06	8.0	9.0	-	-			
	5.8	310	1.9	481.23	8.0	9.0	-	-			
	6.9	346	1.7	402.93	8.0	9.0	-	-			
	8.2	296	1.8	339.66	8.0	9.0	-	-			
	9.4	259	1.8	297.62	8.0	9.0	-	-			
	10.5	232	1.9	266.27	8.0	9.0	-	-			
	12.2	202	2.1	228.94	8.0	9.0	-	-			
	14.5	193	1.8	193.65	8.0	9.0	-	-			
	17.2	163	1.8	163.25	8.0	9.0	-	-			
	19.6	143	1.8	143.04	8.0	9.0	-	-			
	21.9	129	1.8	127.97	8.0	9.0	-	-			
	25.4	111	1.8	110.03	8.0	9.0	-	-			
	28.7	98	1.8	97.50	8.0	9.0	-	-			
	1.7	980	0.8	520.20	7.0	9.0	12.0	12.0	PSH 2080 80M6A	39	112-113
	2.2	775	1.0	402.90	6.0	9.0	11.0	12.0			
	3.8	479	1.6	234.60	10.0	9.0	13.0	12.0			
	4.8	396	1.8	187.00	10.0	9.0	13.0	12.0			
	5.7	340	2.1	157.64	10.0	9.0	13.0	12.0			
	6.5	304	2.2	138.13	8.0	9.0	13.0	12.0			
	7.3	277	2.4	123.58	8.0	9.0	13.0	12.0			
	8.5	242	2.6	106.25	8.0	9.0	13.0	12.0			
	9.6	218	2.7	94.15	8.0	9.0	13.0	12.0			
	2.1	812	0.9	656.63	5.0	9.0	11.0	12.0	PSH 2080 71M4B / 71M4C	37	112-113
	2.7	656	1.1	520.20	7.0	9.0	12.0	12.0			
	3.5	519	1.4	402.90	6.0	9.0	11.0	12.0			
	5.1	475	1.5	276.81	9.0	9.0	13.0	12.0			
	6.0	326	2.2	234.60	10.0	9.0	13.0	12.0			
	7.5	269	2.5	187.00	10.0	9.0	13.0	12.0			
	8.9	231	2.9	157.64	10.0	9.0	13.0	12.0			
	4.3	414	1.3	656.63	5.0	9.0	11.0	12.0	PSH 2080 71M2A	37	112-113
	5.4	335	1.6	520.20	7.0	9.0	12.0	12.0			
	6.9	264	2.0	402.90	6.0	9.0	11.0	12.0			
	10.1	241	2.2	276.81	9.0	9.0	13.0	12.0			
	5.5	431	0.9	254.74	-	-	-	-	PSH 3063 71M4B / 71M4C	29	108-109
	6.2	379	1.0	224.36	-	-	-	-			
	7.0	341	1.1	198.65	-	-	-	-			
	7.8	343	1.0	178.60	-	-	-	-			
	9.6	284	1.2	146.13	-	-	-	-			
	10.9	250	1.2	128.70	4.0	4.0	-	-			
	12.3	221	1.2	113.95	-	-	-	-			
	14.4	191	1.2	97.18	-	-	-	-			
	17.6	169	1.2	79.65	-	-	-	-			
	21.5	138	1.2	65.17	-	-	-	-			
	4.6	374	0.8	604.27	4.0	4.0	-	-	PSH 3063 71M2A	29	108-109
	5.3	336	0.9	532.19	4.0	4.0	-	-			
	5.9	297	1.0	471.21	4.0	4.0	-	-			
	7.1	334	0.9	395.60	4.0	4.0	-	-			
	8.0	296	1.0	349.65	4.0	4.0	-	-			
	9.0	263	1.1	311.35	4.0	4.0	-	-			
	11.0	219	1.3	254.74	4.0	4.0	-	-			
	12.5	193	1.5	224.36	4.0	4.0	-	-			
	14.1	173	1.6	198.65	4.0	4.0	-	-			
	15.7	174	1.5	178.60	4.0	4.0	-	-			
	19.2	144	1.7	146.13	4.0	4.0	-	-			
	21.8	127	1.8	128.70	4.0	4.0	-	-			
	24.6	112	1.8	113.95	4.0	4.0	-	-			
	28.8	97	1.8	97.18	4.0	4.0	-	-			
	35.2	85	1.8	79.65	4.0	4.0	-	-			
	43.0	70	1.8	65.17	4.0	4.0	-	-			

P_1 [kW]	n_2 [Min^{-1}]	M_2 [Nm]	f_B	i_{ges}	F_R [N]	F_A [N]	$F_{R\,GR}$ [N]	$F_{A\,GR}$ [N]	Tip / Type / Typ IE2 / IE3	Kg	mm
0.37	4.9	375	0.9	183.60	7.0	8.0	11.0	10.0	PSH 2063 80M6A	29	108-109
	5.5	331	1.0	162.27	7.0	8.0	11.0	10.0			
	6.2	301	1.0	144.50	8.0	8.0	11.0	10.0			
	7.6	251	1.2	118.23	8.0	8.0	11.0	10.0			
	8.6	225	1.4	104.13	8.0	8.0	11.0	10.0			
	9.8	203	1.5	92.19	8.0	8.0	11.0	10.0			
	11.6	213	1.5	77.40	8.0	8.0	11.0	10.0			
	13.2	188	1.6	68.41	8.0	8.0	11.0	10.0			
	14.8	170	1.7	60.92	8.0	8.0	11.0	10.0			
	18.1	141	2.0	49.84	8.0	8.0	11.0	10.0			
	20.5	126	2.1	43.90	8.0	8.0	11.0	10.0			
	23.2	113	2.3	38.87	5.0	8.0	11.0	10.0			
	25.8	110	2.5	34.94	5.0	8.0	11.0	10.0			
	31.5	91	2.8	28.59	5.0	8.0	11.0	10.0			
	5.3	447	0.8	264.14	7.0	8.0	10.0	10.0	PSH 2063 71M4B / 71M4C	27	108-109
	6.3	377	1.0	223.06	6.0	8.0	10.0	10.0			
	7.1	336	1.1	195.89	7.0	8.0	10.0	10.0			
	7.6	250	1.3	183.60	7.0	8.0	11.0	10.0			
	8.6	225	1.4	162.27	7.0	8.0	11.0	10.0			
	9.7	204	1.5	144.50	8.0	8.0	11.0	10.0			
	11.8	173	1.7	118.23	8.0	8.0	11.0	10.0			
	13.4	155	1.9	104.13	8.0	8.0	11.0	10.0			
	15.2	140	2.1	92.19	8.0	8.0	11.0	10.0			
	18.1	141	2.2	77.40	8.0	8.0	11.0	10.0			
	20.5	126	2.3	68.41	8.0	8.0	11.0	10.0			
	23.0	112	2.5	60.92	8.0	8.0	11.0	10.0			
	28.1	94	2.8	49.84	8.0	8.0	11.0	10.0			
	31.9	83	3.0	43.90	8.0	8.0	11.0	10.0			
	5.3	334	0.8	529.13	7.0	8.0	9.0	10.0	PSH 2063 71M2A	27	108-109
	6.0	293	0.9	464.67	7.0	8.0	10.0	10.0			
	6.8	266	1.0	413.10	7.0	8.0	-	-			
	10.6	227	1.2	264.14	7.0	8.0	11.0	10.0			
	12.6	191	1.4	223.06	6.0	8.0	11.0	10.0			
	14.3	171	1.6	195.89	7.0	8.0	11.0	10.0			
	15.3	127	1.9	183.60	7.0	8.0	11.0	10.0			
	17.3	115	2.1	162.27	7.0	8.0	11.0	10.0			
	19.4	104	2.2	144.50	8.0	8.0	11.0	10.0			
	23.7	88	2.5	118.23	8.0	8.0	11.0	10.0			
	26.9	79	2.8	104.13	8.0	8.0	11.0	10.0			
	11.4	241	0.8	122.67	-	-	-	-	PSH 3050 71M4B / 71M4C	28	100-101
	14.1	195	1.0	99.12	-	-	-	-			
	16.2	172	1.0	86.32	-	-	-	-			
	18.3	160	0.9	76.58	-	-	-	-			
	20.8	143	0.9	67.22	-	-	-	-			
	23.6	126	1.0	59.42	-	-	-	-			
	29.2	102	1.1	48.01	-	-	-	-			
	33.5	89	1.2	41.81	-	-	-	-			
	13.4	182	0.8	209.09	5.0	8.0	-	-	PSH 3050 71M2A	28	100-101
	15.4	159	0.9	182.08	5.0	8.0	6.0	6.0			
	17.7	158	0.9	158.10	5.0	8.0	-	-			
	20.2	138	1.1	138.77	5.0	8.0	-	-			
	22.8	122	1.2	122.67	5.0	8.0	-	-			
	28.2	99	1.5	99.12	5.0	8.0	-	-			
	32.4	87	1.6	86.32	5.0	8.0	-	-			
	36.6	81	1.3	76.58	5.0	8.0	-	-			
	41.7	72	1.4	67.22	5.0	8.0	-	-			
	47.1	64	1.6	59.42	5.0	8.0	-	-			
	58.3	51	1.6	48.01	5.0	8.0	-	-			
	67.0	45	1.9	41.81	5.0	8.0	-	-			

P_1 [kW]	n_2 [Min^{-1}]	M_2 [Nm]	f_B	i_{ges}	F_R [N]	F_A [N]	$F_{R\,GR}$ [N]	$F_{A\,GR}$ [N]	Tip / Type / Typ IE2 / IE3	Kg	mm
0.37	9.7	197	0.9	92.73	5.0	8.0	6.0	8.0	PSH 2050 80M6A	24	96-97
	11.1	174	1.0	80.75	5.0	8.0	6.0	8.0			
	13.8	179	1.0	65.25	5.0	8.0	6.0	8.0			
	15.7	157	1.1	57.27	6.0	8.0	6.0	8.0			
	17.8	141	1.2	50.63	6.0	8.0	6.0	8.0			
	22.0	116	1.4	40.91	6.0	8.0	6.0	8.0			
	25.3	101	1.6	35.63	6.0	8.0	6.0	8.0			
	29.1	97	1.7	30.93	5.0	8.0	6.0	8.0			
	33.1	85	1.9	27.15	5.0	8.0	6.0	8.0			
	37.5	76	2.1	24.00	5.0	8.0	6.0	8.0			
	46.4	62	2.4	19.39	5.0	8.0	6.0	8.0			
	53.3	54	2.3	16.89	5.0	8.0	6.0	8.0			
	60.9	48	2.5	14.77	5.0	8.0	6.0	8.0			
	68.4	44	2.8	13.15	5.0	8.0	6.0	8.0			
	77.4	39	3.0	11.63	5.0	8.0	6.0	8.0			
	9.5	202	0.9	147.90	5.0	8.0	6.0	8.0	PSH 2050 71M4B / 71M4C	22	96-97
	10.8	180	0.9	129.82	5.0	8.0	6.0	8.0			
	12.2	162	1.0	114.75	5.0	8.0	6.0	8.0			
	15.1	133	1.3	92.73	5.0	8.0	6.0	8.0			
	17.3	118	1.4	80.75	5.0	8.0	6.0	8.0			
	21.5	119	1.4	65.25	5.0	8.0	6.0	8.0			
	24.4	104	1.6	57.27	6.0	8.0	6.0	8.0			
	27.7	93	1.7	50.63	6.0	8.0	6.0	8.0			
	34.2	76	2.0	40.91	6.0	8.0	6.0	8.0			
	39.3	67	2.3	35.63	6.0	8.0	6.0	8.0			
	45.3	63	2.5	30.93	5.0	8.0	6.0	8.0			
	51.6	56	2.8	27.15	5.0	8.0	6.0	8.0			
	14.4	169	0.8	194.06	5.0	8.0	6.0	8.0	PSH 2050 71M2A	22	96-97
	16.5	148	0.9	170.00	5.0	8.0	6.0	8.0			
	18.9	103	1.3	147.90	5.0	8.0	6.0	8.0			
	21.6	92	1.4	129.82	5.0	8.0	6.0	8.0			
	24.4	83	1.5	114.75	5.0	8.0	6.0	8.0			
	30.2	68	1.9	92.73	5.0	8.0	6.0	8.0			
	34.7	60	2.1	80.75	5.0	8.0	6.0	8.0			
	42.9	60	2.1	65.25	5.0	8.0	6.0	8.0			
	48.9	53	2.4	57.27	6.0	8.0	6.0	8.0			
	55.3	47	2.5	50.63	6.0	8.0	6.0	8.0			
	68.4	39	3.0	40.91	6.0	8.0	6.0	8.0			
	17.3	112	0.8	52.00	4.0	4.0	-	-	PSH 2040 80M6A	20	92-93
	20.1	98	0.9	44.78	3.0	4.0	-	-			
	21.4	116	0.8	42.08	4.0	4.0	-	-			
	24.5	101	0.8	36.75	4.0	4.0	-	-			
	27.9	90	0.9	32.31	4.0	4.0	-	-			
	31.5	80	1.0	28.56	4.0	4.0	-	-			
	40.9	62	1.2	22.00	4.0	4.0	-	-			
	46.0	61	1.4	19.55	4.0	4.0	-	-			
	52.7	54	1.5	17.08	4.0	4.0	-	-			
	60.0	48	1.6	15.01	4.0	4.0	-	-			
	67.8	42	1.8	13.27	4.0	4.0	-	-			
	88.1	33	2.2	10.22	4.0	4.0	-	-			
	102.3	28	2.4	8.80	4.0	4.0	-	-			
	119.8	25	2.4	7.51	4.0	4.0	-	-			
	135.7	22	2.5	6.63	4.0	4.0	-	-			
	176.1	17	2.9	5.11	4.0	4.0	-	-			
	18.3	106	0.8	76.38	4.0	4.0	-	-	PSH 2040 71M4B / 71M4C	18	92-93
	20.7	95	0.9	67.50	4.0	4.0	-	-			
	23.4	118	0.8	59.80	3.0	4.0	-	-			
	26.9	76	1.1	52.00	4.0	4.0	-	-			
	29.9	93	1.1	46.77	3.0	4.0	-	-			
	31.3	67	1.2	44.78	-	-	-	-			
	33.3	75	1.1	42.08	4.0	4.0	-	-			
	38.1	67	1.2	36.75	4.0	4.0	-	-			
	43.3	59	1.3	32.31	4.0	4.0	-	-			
	49.0	53	1.4	28.56	4.0	4.0	-	-			
	63.6	41	1.8	22.00	4.0	4.0	-	-			
	71.6	40	2.0	19.55	4.0	4.0	-	-			
	82.0	35	2.2	17.08	4.0	4.0	-	-			
	93.3	31	2.4	15.01	4.0	4.0	-	-			
	105.5	27	2.7	13.27	4.0	4.0	-	-			

P_1 [kW]	n_2 [Min^{-1}]	M_2 [Nm]	f_B	i_{ges}	F_R [N]	F_A [N]	$F_{R\,GR}$ [N]	$F_{A\,GR}$ [N]	Tip / Type / Typ IE2 / IE3	Kg	mm
0.37	24.3	79	0.9	115.23	4.0	4.0	-	-	**PSH 2040 71M2A**	18	92-93
	27.8	88	0.9	100.65	4.0	4.0	-	-			
	28.2	69	1.0	99.45	4.0	4.0	-	-			
	32.2	60	1.1	86.86	4.0	4.0	-	-			
	36.7	54	1.2	76.38	4.0	4.0	-	-			
	41.5	49	1.3	67.50	4.0	4.0	-	-			
	46.8	60	1.3	59.80	3.0	4.0	-	-			
	53.8	39	1.6	52.00	4.0	4.0	-	-			
	59.9	47	1.6	46.77	3.0	4.0	-	-			
	62.5	34	1.8	44.78	3.0	4.0	-	-			
	66.5	38	1.7	42.08	4.0	4.0	-	-			
	76.2	34	1.8	36.75	4.0	4.0	-	-			
	86.7	30	2.0	32.31	4.0	4.0	-	-			
	98.0	27	2.1	28.56	4.0	4.0	-	-			
	127.3	21	2.7	22.00	4.0	4.0	-	-			
	143.2	20	3.0	19.55	4.0	4.0	-	-			
0.55	0.6	4218	0.8	1475.08	27.0	21.0	-	-	**PSH 3125 80M6B**	113	132-133
	0.8	3427	0.9	1198.50	25.0	21.0	27.0	28.0			
	1.0	2709	1.2	928.25	27.0	21.0	27.0	28.0			
	1.1	2363	1.4	793.81	27.0	21.0	27.0	28.0			
	1.3	2700	1.1	690.49	27.0	21.0	27.0	28.0			
	1.5	2375	1.2	607.31	27.0	21.0	27.0	28.0			
	1.6	2139	1.5	546.92	27.0	21.0	27.0	28.0			
	2.0	1764	1.8	444.38	27.0	21.0	27.0	28.0			
	2.4	1530	1.8	380.02	27.0	21.0	27.0	28.0			
	2.8	1301	1.9	323.00	27.0	21.0	27.0	28.0			
	3.3	1104	2.7	270.16	27.0	21.0	27.0	28.0			
	0.7	3782	0.8	2057.43	-	-	-	-	**PSH 3125 80M4B / 80M4C**	113	132-133
	0.8	3424	0.9	1862.28	-	-	-	-			
	0.9	3073	1.0	1637.95	-	-	-	-			
	0.9	2767	1.1	1475.08	27.0	21.0	-	-			
	1.2	2293	1.3	1198.50	25.0	21.0	27.0	28.0			
	1.5	1811	1.7	928.25	27.0	21.0	27.0	28.0			
	1.8	1578	2.0	793.81	27.0	21.0	27.0	28.0			
	2.0	1762	1.6	690.49	27.0	21.0	27.0	28.0			
	2.3	1549	1.7	607.31	27.0	21.0	27.0	28.0			
	2.6	1416	2.2	546.92	27.0	21.0	27.0	28.0			
	3.2	1150	2.6	444.38	27.0	21.0	27.0	28.0			
	3.7	998	2.6	380.02	27.0	21.0	27.0	28.0			
	4.3	860	2.8	323.00	27.0	21.0	27.0	28.0			
	1.1	2371	1.0	2527.75	27.0	21.0	-	-	**PSH 3125 71M2B**	111	132-133
	1.4	1930	1.2	2057.43	27.0	21.0	-	-			
	1.5	1747	1.3	1862.28	27.0	21.0	-	-			
	1.7	1567	1.5	1637.95	27.0	21.0	-	-			
	1.9	1411	1.7	1475.08	27.0	21.0	-	-			
	2.3	1169	2.0	1198.50	25.0	21.0	27.0	28.0			
	1.4	1887	0.9	660.00	14.0	12.0	16.0	16.0	**PSH 3100 80M6B**	70	124-125
	1.7	1516	1.1	519.44	16.0	12.0	-	-			
	1.9	1367	1.2	468.59	16.0	12.0	-	-			
	2.5	1108	1.4	365.06	16.0	12.0	-	-			
	3.0	924	1.7	298.69	16.0	12.0	-	-			
	3.5	1037	1.5	257.40	16.0	12.0	-	-			
	4.9	747	2.0	182.75	16.0	12.0	-	-			
	6.3	590	2.3	142.38	16.0	12.0	-	-			
	7.4	552	2.3	121.20	16.0	12.0	-	-			
	8.2	504	2.5	109.34	16.0	12.0	-	-			
	10.6	398	2.9	85.18	16.0	12.0	-	-			
	16.8	266	2.7	53.68	16.0	12.0	-	-			
	2.1	1263	1.3	660.00	14.0	12.0	16.0	16.0	**PSH 3100 80M4B / 80M4C**	68	124-125
	2.7	1013	1.6	519.44	16.0	12.0	-	-			
	3.0	932	1.7	468.59	16.0	12.0	-	-			
	3.8	753	2.0	365.06	16.0	12.0	-	-			
	4.7	628	2.4	298.69	16.0	12.0	-	-			
	5.4	676	2.2	257.40	-	-	-	-			
	7.7	494	2.9	182.75	-	-	-	-			

P_1 [kW]	n_2 [Min^{-1}]	M_2 [Nm]	f_B	i_{ges}	F_R [N]	F_A [N]	$F_{R\,GR}$ [N]	$F_{A\,GR}$ [N]	Tip / Type / Typ IE2 / IE3	Kg	mm
0.55	1.7	1504	0.8	1670.37	14.0	12.0	-	-	PSH 3100 71M2B	68	124-125
	1.9	1385	0.9	1506.84	14.0	12.0	-	-			
	2.4	1079	1.1	1173.93	14.0	12.0	-	-			
	4.2	644	1.9	660.00	14.0	12.0	16.0	16.0			
	5.4	516	2.3	519.44	16.0	12.0	-	-			
	6.0	475	2.5	468.59	16.0	12.0	-	-			
	7.7	383	3.0	365.06	16.0	12.0	-	-			
	1.4	1845	0.8	645.00	14.0	12.0	16.0	16.0	PSH 2100 80M6B	61	120-121
	1.8	1488	1.0	510.00	16.0	12.0	16.0	16.0			
	3.7	776	1.9	241.67	16.0	12.0	16.0	16.0			
	4.9	610	2.4	183.33	16.0	12.0	16.0	16.0			
	5.4	560	2.5	165.38	16.0	12.0	16.0	16.0			
	7.0	451	2.9	128.85	16.0	12.0	16.0	16.0			
	2.2	1234	1.2	645.00	14.0	12.0	16.0	16.0	PSH 2100 80M4B / 80M4C	61	120-121
	2.7	995	1.4	510.00	16.0	12.0	16.0	16.0			
	5.8	526	2.7	241.67	16.0	12.0	16.0	16.0			
	4.3	629	1.7	645.00	14.0	12.0	16.0	16.0	PSH 2100 71M2B	59	120-121
	3.5	741	0.8	805.70	7.0	9.0	-	-	PSH 3080 71M2B	43	116-117
	4.0	662	0.9	705.97	7.0	9.0	-	-			
	4.4	592	1.0	631.62	7.0	9.0	-	-			
	5.2	520	1.1	543.06	7.0	9.0	-	-			
	5.8	460	1.3	481.23	7.0	9.0	-	-			
	6.9	514	1.1	402.93	7.0	9.0	-	-			
	8.2	440	1.2	339.66	7.0	9.0	-	-			
	9.4	385	1.2	297.62	7.0	9.0	-	-			
	10.5	345	1.3	266.27	7.0	9.0	-	-			
	12.2	301	1.4	228.94	7.0	9.0	-	-			
	14.5	287	1.2	193.65	7.0	9.0	-	-			
	17.2	242	1.2	163.25	7.0	9.0	-	-			
	19.6	212	1.2	143.04	7.0	9.0	-	-			
	21.9	192	1.2	127.97	7.0	9.0	-	-			
	25.4	165	1.2	110.03	7.0	9.0	-	-			
	28.7	146	1.2	97.50	7.0	9.0	-	-			
	3.8	712	1.0	234.60	9.0	9.0	13.0	12.0	PSH 2080 80M6B	39	112-113
	4.8	589	1.2	187.00	9.0	9.0	13.0	12.0			
	5.7	506	1.4	157.64	10.0	9.0	13.0	12.0			
	6.5	451	1.5	138.13	10.0	9.0	13.0	12.0			
	7.3	411	1.6	123.58	10.0	9.0	13.0	12.0			
	8.5	360	1.7	106.25	10.0	9.0	13.0	12.0			
	9.6	324	1.8	94.15	10.0	9.0	13.0	12.0			
	11.4	331	2.1	78.83	10.0	9.0	13.0	12.0			
	13.5	283	2.3	66.45	5.0	9.0	13.0	12.0			
	15.5	251	2.5	58.23	5.0	9.0	13.0	12.0			
	17.3	228	2.6	52.10	5.0	9.0	13.0	12.0			
	20.1	199	2.9	44.79	5.0	9.0	13.0	12.0			
	3.5	771	0.9	402.90	6.0	9.0	9.0	12.0	PSH 2080 80M4B / 80M4C	39	112-113
	6.0	484	1.5	234.60	9.0	9.0	13.0	12.0			
	7.5	400	1.7	187.00	9.0	9.0	13.0	12.0			
	8.9	343	2.0	157.64	10.0	9.0	13.0	12.0			
	10.1	311	2.1	138.13	10.0	9.0	13.0	12.0			
	11.3	283	2.2	123.58	10.0	9.0	13.0	12.0			
	13.2	247	2.4	106.25	10.0	9.0	13.0	12.0			
	14.9	223	2.5	94.15	10.0	9.0	13.0	12.0			
	17.8	222	3.0	78.83	10.0	9.0	13.0	12.0			
	4.3	616	0.9	656.63	6.0	9.0	11.0	12.0	PSH 2080 71M2B	37	112-113
	5.4	498	1.1	520.20	6.0	9.0	12.0	12.0			
	6.9	393	1.4	402.90	6.0	9.0	11.0	12.0			
	10.1	358	1.5	276.81	9.0	9.0	13.0	12.0			
	11.9	246	2.2	234.60	9.0	9.0	12.0	12.0			
	15.0	203	2.5	187.00	9.0	9.0	13.0	12.0			
	17.8	174	2.9	157.64	10.0	9.0	13.0	12.0			

P_1 [kW]	n_2 [Min^{-1}]	M_2 [Nm]	f_B	i_{ges}	F_R [N]	F_A [N]	$F_{R\,GR}$ [N]	$F_{A\,GR}$ [N]	Tip / Type / Typ IE2 / IE3	Kg	mm
0.55	11.0	325	0.9	254.74	4.0	4.0	-	-	PSH 3063 71M2B	29	108-109
	12.5	286	1.0	224.36	4.0	4.0	-	-			
	14.1	257	1.1	198.65	4.0	4.0	-	-			
	15.7	258	1.0	178.60	4.0	4.0	-	-			
	19.2	214	1.2	146.13	4.0	4.0	-	-			
	21.8	188	1.2	128.70	4.0	4.0	-	-			
	24.6	167	1.2	113.95	4.0	4.0	-	-			
	28.8	144	1.2	97.18	4.0	4.0	-	-			
	35.2	127	1.2	79.65	4.0	4.0	-	-			
	43.0	104	1.2	65.17	4.0	4.0	-	-			
	7.6	373	0.8	118.23	7.0	8.0	11.0	10.0	PSH 2063 80M6B	29	104-105
	8.6	334	0.9	104.13	7.0	8.0	11.0	10.0			
	9.8	301	1.0	92.19	7.0	8.0	11.0	10.0			
	11.6	316	1.0	77.40	7.0	8.0	11.0	10.0			
	13.2	279	1.1	68.41	7.0	8.0	11.0	10.0			
	14.8	252	1.2	60.92	7.0	8.0	11.0	10.0			
	18.1	209	1.3	49.84	7.0	8.0	11.0	10.0			
	20.5	187	1.4	43.90	7.0	8.0	11.0	10.0			
	23.2	168	1.5	38.87	7.0	8.0	11.0	10.0			
	25.8	163	1.7	34.94	7.0	8.0	11.0	10.0			
	31.5	135	1.9	28.59	7.0	8.0	11.0	10.0			
	35.7	119	2.2	25.18	7.0	8.0	11.0	10.0			
	40.4	107	2.4	22.29	7.0	8.0	11.0	10.0			
	47.3	91	2.5	19.01	7.0	8.0	11.0	10.0			
	57.8	78	2.6	15.58	7.0	8.0	11.0	10.0			
	70.6	65	2.9	12.75	7.0	8.0	11.0	10.0			
	7.6	372	0.9	183.60	6.0	8.0	10.0	10.0	PSH 2063 80M4B / 80M4C	29	104-105
	8.6	335	0.9	162.27	7.0	8.0	10.0	10.0			
	9.7	304	1.0	144.50	7.0	8.0	10.0	10.0			
	11.8	257	1.1	118.23	7.0	8.0	11.0	10.0			
	13.4	230	1.3	104.13	7.0	8.0	11.0	10.0			
	15.2	208	1.4	92.19	7.0	8.0	11.0	10.0			
	18.1	209	1.5	77.40	7.0	8.0	11.0	10.0			
	20.5	187	1.6	68.41	7.0	8.0	11.0	10.0			
	23.0	167	1.7	60.92	7.0	8.0	11.0	10.0			
	28.1	140	1.9	49.84	7.0	8.0	11.0	10.0			
	31.9	124	2.0	43.90	7.0	8.0	11.0	10.0			
	36.0	111	2.2	38.87	7.0	8.0	11.0	10.0			
	40.1	106	2.5	34.94	7.0	8.0	11.0	10.0			
	49.0	88	2.8	28.59	7.0	8.0	11.0	10.0			
	10.6	337	0.8	264.14	6.0	8.0	-	-	PSH 2063 71M2B	27	104-105
	12.6	285	1.0	223.06	6.0	8.0	10.0	10.0			
	14.3	254	1.1	195.89	6.0	8.0	10.0	10.0			
	15.3	189	1.3	183.60	6.0	8.0	10.0	10.0			
	17.3	170	1.4	162.27	7.0	8.0	10.0	10.0			
	19.4	155	1.5	144.50	7.0	8.0	10.0	10.0			
	23.7	131	1.7	118.23	7.0	8.0	11.0	10.0			
	26.9	117	1.9	104.13	7.0	8.0	11.0	10.0			
	30.4	105	2.1	92.19	7.0	8.0	11.0	10.0			
	36.2	106	2.2	77.40	7.0	8.0	11.0	10.0			
	40.9	95	2.4	68.41	7.0	8.0	11.0	10.0			
	46.0	85	2.5	60.92	7.0	8.0	11.0	10.0			
	56.2	71	2.8	49.84	7.0	8.0	11.0	10.0			
	63.8	63	3.0	43.90	7.0	8.0	11.0	10.0			
	22.8	182	0.8	122.67	5.0	8.0	-	-	PSH 3050 71M2B	28	100-101
	28.2	147	1.0	99.12	5.0	8.0	-	-			
	32.4	130	1.1	86.32	5.0	8.0	-	-			
	36.6	121	0.9	76.58	5.0	8.0	-	-			
	41.7	107	0.9	67.22	5.0	8.0	-	-			
	47.1	95	1.0	59.42	5.0	8.0	-	-			
	58.3	77	1.1	48.01	5.0	8.0	-	-			
	67.0	67	1.3	41.81	5.0	8.0	-	-			

P_1 [kW]	n_2 [Min^{-1}]	M_2 [Nm]	f_B	i_{ges}	F_R [N]	F_A [N]	$F_{R\,GR}$ [N]	$F_{A\,GR}$ [N]	Tip / Type / Typ IE2 / IE3	Kg	mm
0.55	15.7	234	0.8	57.27	5.0	8.0	6.0	8.0	PSH 2050 80M6B	24	96-97
	17.8	210	0.8	50.63	5.0	8.0	6.0	8.0			
	22.0	172	0.9	40.91	6.0	8.0	6.0	8.0			
	25.3	150	1.1	35.63	5.0	8.0	6.0	8.0			
	29.1	144	1.1	30.93	5.0	7.0	6.0	8.0			
	33.1	127	1.3	27.15	5.0	7.0	6.0	8.0			
	37.5	113	1.4	24.00	5.0	7.0	6.0	8.0			
	46.4	93	1.6	19.39	5.0	6.0	6.0	8.0			
	53.3	81	1.6	16.89	4.0	6.0	6.0	8.0			
	60.9	71	1.7	14.77	4.0	6.0	6.0	8.0			
	68.4	66	1.9	13.15	4.0	5.0	6.0	8.0			
	77.4	58	2.0	11.63	4.0	5.0	6.0	8.0			
	95.8	48	2.4	9.39	5.0	8.0	6.0	8.0			
	110.0	42	2.8	8.18	5.0	8.0	6.0	8.0			
	125.9	36	3.0	7.15	5.0	8.0	6.0	8.0			
	15.1	198	0.8	92.73	5.0	8.0	6.0	8.0	PSH 2050 80M4B / 80M4C	24	96-97
	17.3	176	1.0	80.75	5.0	8.0	6.0	8.0			
	21.5	176	1.0	65.25	5.0	8.0	6.0	8.0			
	24.4	155	1.1	57.27	5.0	8.0	6.0	8.0			
	27.7	139	1.1	50.63	5.0	8.0	6.0	8.0			
	34.2	114	1.4	40.91	6.0	8.0	6.0	8.0			
	39.3	100	1.5	35.63	5.0	8.0	6.0	8.0			
	45.3	94	1.6	30.93	5.0	7.0	6.0	8.0			
	51.6	84	1.9	27.15	5.0	7.0	6.0	8.0			
	58.3	74	2.1	24.00	5.0	7.0	6.0	8.0			
	72.2	60	2.4	19.39	5.0	6.0	6.0	8.0			
	82.9	53	2.3	16.89	4.0	6.0	6.0	8.0			
	94.8	47	2.4	14.77	4.0	6.0	6.0	8.0			
	106.5	43	2.8	13.15	4.0	5.0	6.0	8.0			
	120.4	38	3.0	11.63	4.0	5.0	6.0	8.0			
	18.9	153	0.9	147.90	5.0	8.0	6.0	8.0	PSH 2050 71M2B	22	96-97
	21.6	136	0.9	129.82	5.0	8.0	6.0	8.0			
	24.4	123	1.0	114.75	5.0	8.0	6.0	8.0			
	30.2	101	1.3	92.73	5.0	8.0	6.0	8.0			
	34.7	89	1.4	80.75	5.0	8.0	6.0	8.0			
	42.9	89	1.4	65.25	5.0	8.0	6.0	8.0			
	48.9	78	1.6	57.27	5.0	8.0	6.0	8.0			
	55.3	70	1.7	50.63	5.0	8.0	6.0	8.0			
	68.4	58	2.0	40.91	6.0	8.0	6.0	8.0			
	78.6	51	2.3	35.63	5.0	8.0	6.0	8.0			
	90.5	48	2.5	30.93	5.0	7.0	6.0	8.0			
	103.1	42	2.8	27.15	5.0	7.0	6.0	8.0			
	40.9	92	0.8	22.00	4.0	4.0	-	-	PSH 2040 80M6B	20	92-93
	46.0	91	0.9	19.55	4.0	4.0	-	-			
	52.7	80	1.0	17.08	4.0	4.0	-	-			
	60.0	71	1.1	15.01	4.0	4.0	-	-			
	67.8	63	1.2	13.27	4.0	4.0	-	-			
	88.1	49	1.5	10.22	4.0	4.0	-	-			
	102.3	42	1.6	8.80	4.0	4.0	-	-			
	119.8	38	1.6	7.51	4.0	3.0	-	-			
	135.7	33	1.7	6.63	4.0	3.0	-	-			
	176.1	26	1.9	5.11	4.0	3.0	-	-			
	204.5	22	2.2	4.40	4.0	4.0	-	-			
	31.3	99	0.8	44.78	-	-	-	-	PSH 2040 80M4B / 80M4C	20	92-93
	33.3	112	0.8	42.08	4.0	4.0	-	-			
	38.1	99	0.8	36.75	4.0	4.0	-	-			
	43.3	87	0.9	32.31	3.0	4.0	-	-			
	49.0	78	1.0	28.56	4.0	4.0	-	-			
	63.6	61	1.2	22.00	4.0	4.0	-	-			
	71.6	59	1.3	19.55	4.0	4.0	-	-			
	82.0	52	1.5	17.08	4.0	4.0	-	-			
	93.3	46	1.6	15.01	4.0	4.0	-	-			
	105.5	41	1.8	13.27	4.0	4.0	-	-			
	137.0	32	2.1	10.22	4.0	4.0	-	-			
	159.1	27	2.4	8.80	4.0	4.0	-	-			
	186.4	25	2.3	7.51	4.0	4.0	-	-			
	211.2	22	2.5	6.63	4.0	4.0	-	-			
	274.0	17	2.8	5.11	4.0	4.0	-	-			

P_1 [kW]	n_2 [Min^{-1}]	M_2 [Nm]	f_B	i_{ges}	F_R [N]	F_A [N]	$F_{R\,GR}$ [N]	$F_{A\,GR}$ [N]	Tip / Type / Typ IE2 / IE3	Kg	mm
0.55	36.7	80	0.8	76.38	3.0	4.0	-	-	PSH 2040 71M2B	18	92-93
	41.5	72	0.9	67.50	3.0	4.0	-	-			
	46.8	89	0.9	59.80	3.0	4.0	-	-			
	53.8	58	1.1	52.00	3.0	4.0	-	-			
	59.9	70	1.1	46.77	3.0	4.0	-	-			
	62.5	50	1.2	44.78	3.0	4.0	-	-			
	66.5	57	1.1	42.08	4.0	4.0	-	-			
	76.2	50	1.2	36.75	4.0	4.0	-	-			
	86.7	44	1.3	32.31	3.0	4.0	-	-			
	98.0	40	1.4	28.56	4.0	4.0	-	-			
	127.3	31	1.8	22.00	4.0	4.0	-	-			
	143.2	30	2.0	19.55	4.0	4.0	-	-			
	163.9	26	2.3	17.08	4.0	4.0	-	-			
	186.5	23	2.4	15.01	4.0	4.0	-	-			
	211.0	21	2.7	13.27	4.0	4.0	-	-			
0.75	1.0	3694	0.9	928.25	25.0	21.0	27.0	28.0	PSH 3125 90S6B / 90L6C	117	132-133
	1.1	3222	1.0	793.81	26.0	21.0	27.0	28.0			
	1.3	3682	0.8	690.49	25.0	21.0	27.0	28.0			
	1.5	3238	0.9	607.31	27.0	21.0	27.0	28.0			
	1.6	2916	1.1	546.92	27.0	21.0	27.0	28.0			
	2.0	2405	1.3	444.38	27.0	21.0	27.0	28.0			
	2.4	2087	1.3	380.02	27.0	21.0	27.0	28.0			
	2.8	1774	1.4	323.00	27.0	21.0	27.0	28.0			
	3.3	1505	2.0	270.16	27.0	21.0	27.0	28.0			
	3.8	1319	2.2	236.72	27.0	21.0	27.0	28.0			
	4.8	1074	2.5	187.50	27.0	21.0	27.0	28.0			
	0.9	3773	0.8	1475.08	27.0	21.0	-	-	PSH 3125 80M4C / 80M4D	113	132-133
	1.2	3127	1.0	1198.50	20.0	21.0	27.0	28.0			
	1.5	2469	1.3	928.25	25.0	21.0	27.0	28.0			
	1.8	2152	1.4	793.81	26.0	21.0	27.0	28.0			
	2.0	2402	1.2	690.49	25.0	21.0	27.0	28.0			
	2.3	2113	1.3	607.31	27.0	21.0	27.0	28.0			
	2.6	1931	1.6	546.92	27.0	21.0	27.0	28.0			
	3.2	1569	1.9	444.38	27.0	21.0	27.0	28.0			
	3.7	1361	1.9	380.02	27.0	21.0	27.0	28.0			
	4.3	1173	2.0	323.00	27.0	21.0	27.0	28.0			
	5.2	995	2.8	270.16	27.0	21.0	27.0	28.0			
	1.3	2823	1.1	695.60	27.0	21.0	27.0	28.0	PSH 2125 90S6B / 90L6C	102	128-129
	1.8	2091	1.4	495.64	27.0	21.0	27.0	28.0			
	4.5	963	2.9	201.71	27.0	21.0	27.0	28.0			
	4.9	886	3.0	182.58	27.0	21.0	27.0	28.0			
	1.7	2067	0.8	519.44	16.0	12.0	-	-	PSH 3100 90S6B / 90L6C	74	124-125
	1.9	1865	0.9	468.59	16.0	12.0	-	-			
	2.5	1511	1.0	365.06	16.0	12.0	-	-			
	3.0	1260	1.3	298.69	16.0	12.0	-	-			
	3.5	1413	1.1	257.40	16.0	12.0	-	-			
	6.3	805	1.7	142.38	16.0	12.0	-	-			
	7.4	752	1.7	121.20	16.0	12.0	-	-			
	8.2	687	1.8	109.34	16.0	12.0	-	-			
	10.6	542	2.1	85.18	16.0	12.0	-	-			
	12.9	444	2.6	69.69	16.0	12.0	-	-			
	16.8	363	2.0	53.68	16.0	12.0	-	-			
	2.1	1722	0.9	660.00	9.0	12.0	16.0	16.0	PSH 3100 80M4C / 80M4D	70	124-125
	2.7	1382	1.2	519.44	16.0	12.0	-	-			
	3.0	1271	1.3	468.59	16.0	12.0	-	-			
	3.8	1027	1.5	365.06	16.0	12.0	-	-			
	4.7	856	1.8	298.69	16.0	12.0	-	-			
	5.4	922	1.6	257.40	-	-	-	-			
	7.7	673	2.1	182.75	-	-	-	-			
	9.8	539	2.4	142.38	-	-	-	-			
	11.6	496	2.4	121.20	-	-	-	-			
	12.8	448	2.7	109.34	-	-	-	-			
	26.1	236	2.9	53.68	-	-	-	-			

P_1 [kW]	n_2 [Min^{-1}]	M_2 [Nm]	f_B	i_{ges}	F_R [N]	F_A [N]	$F_{R\,GR}$ [N]	$F_{A\,GR}$ [N]	Tip / Type / Typ IE2 / IE3	Kg	mm
0.75	2.2	1664	0.9	410.00	16.0	12.0	16.0	16.0	PSH 2100 90S6B / 90L6C	65	120-121
	3.0	1282	1.2	303.85	16.0	12.0	16.0	16.0			
	3.7	1058	1.4	241.67	16.0	12.0	16.0	16.0			
	4.9	832	1.7	183.33	16.0	12.0	16.0	16.0			
	5.4	763	1.8	165.38	16.0	12.0	16.0	16.0			
	7.0	615	2.1	128.85	16.0	12.0	16.0	16.0			
	8.7	521	2.4	103.85	14.0	12.0	16.0	16.0			
	9.5	555	2.5	94.25	14.0	12.0	16.0	16.0			
	12.6	427	3.0	71.50	14.0	12.0	16.0	16.0			
	2.2	1683	0.8	645.00	9.0	12.0	16.0	16.0	PSH 2100 80M4C / 80M4D	61	121-122
	2.7	1357	1.0	510.00	13.0	12.0	16.0	16.0			
	5.8	717	2.0	241.67	16.0	12.0	16.0	16.0			
	7.6	572	2.4	183.33	16.0	12.0	16.0	16.0			
	8.5	525	2.5	165.38	16.0	12.0	16.0	16.0			
	10.9	428	2.9	128.85	16.0	12.0	16.0	16.0			
	3.8	971	0.8	234.60	7.0	9.0	12.0	12.0	PSH 2080 90S6B / 90L6C	43	112-113
	4.8	804	0.9	187.00	8.0	9.0	13.0	12.0			
	5.7	690	1.0	157.64	9.0	9.0	13.0	12.0			
	6.5	616	1.1	138.13	9.0	9.0	13.0	12.0			
	7.3	561	1.2	123.58	10.0	9.0	13.0	12.0			
	8.5	490	1.3	106.25	10.0	9.0	13.0	12.0			
	9.6	442	1.3	94.15	10.0	9.0	13.0	12.0			
	11.4	452	1.5	78.83	10.0	9.0	13.0	12.0			
	13.5	386	1.7	66.45	10.0	9.0	13.0	12.0			
	15.5	343	1.8	58.23	10.0	9.0	13.0	12.0			
	17.3	311	1.9	52.10	10.0	9.0	13.0	12.0			
	20.1	271	2.1	44.79	6.0	9.0	13.0	12.0			
	23.8	247	2.3	37.89	6.0	9.0	13.0	12.0			
	28.2	208	2.6	31.94	6.0	9.0	13.0	12.0			
	32.2	185	2.9	27.99	6.0	9.0	13.0	12.0			
	6.0	660	1.1	234.60	7.0	9.0	12.0	12.0	PSH 2080 80M4C / 80M4D	39	112-113
	7.5	545	1.2	187.00	8.0	9.0	13.0	12.0			
	8.9	468	1.4	157.64	9.0	9.0	13.0	12.0			
	10.1	424	1.5	138.13	9.0	9.0	13.0	12.0			
	11.3	386	1.6	123.58	10.0	9.0	13.0	12.0			
	13.2	337	1.8	106.25	10.0	9.0	13.0	12.0			
	14.9	303	1.8	94.15	10.0	9.0	13.0	12.0			
	17.8	302	2.2	78.83	10.0	9.0	13.0	12.0			
	21.1	258	2.4	66.45	10.0	9.0	13.0	12.0			
	24.0	229	2.6	58.23	10.0	9.0	13.0	12.0			
	26.9	205	2.8	52.10	10.0	9.0	13.0	12.0			
	9.8	411	0.8	92.19	7.0	8.0	10.0	10.0	PSH 2063 90S6B / 90L6C	33	104-105
	13.2	381	0.8	68.41	7.0	8.0	10.0	10.0			
	14.8	344	0.9	60.92	7.0	8.0	11.0	10.0			
	18.1	286	1.0	49.84	8.0	8.0	11.0	10.0			
	20.5	255	1.0	43.90	8.0	8.0	11.0	10.0			
	23.2	229	1.1	38.87	7.0	8.0	11.0	10.0			
	25.8	222	1.2	34.94	7.0	8.0	11.0	10.0			
	31.5	184	1.4	28.59	7.0	8.0	11.0	10.0			
	35.7	162	1.6	25.18	6.0	8.0	11.0	10.0			
	40.4	145	1.8	22.29	6.0	8.0	11.0	10.0			
	47.3	124	1.8	19.01	6.0	8.0	11.0	10.0			
	57.8	107	1.9	15.58	6.0	8.0	11.0	10.0			
	70.6	88	2.1	12.75	6.0	8.0	11.0	10.0			
	80.1	78	2.4	11.23	6.0	8.0	11.0	10.0			
	90.5	70	2.6	9.94	6.0	8.0	11.0	10.0			
	106.1	59	2.9	8.48	6.0	8.0	11.0	10.0			

P_1 [kW]	n_2 [Min^{-1}]	M_2 [Nm]	f_B	i_{ges}	F_R [N]	F_A [N]	$F_{R\,GR}$ [N]	$F_{A\,GR}$ [N]	Tip / Type / Typ IE2 / IE3	Kg	mm
0.75	11.8	351	0.8	118.23	7.0	8.0	10.0	10.0	PSH 2063 80M4C / 80M4D	29	104-105
	13.4	314	0.9	104.13	7.0	8.0	10.0	10.0			
	15.2	283	1.0	92.19	7.0	8.0	10.0	10.0			
	18.1	285	1.1	77.40	7.0	8.0	10.0	10.0			
	20.5	255	1.2	68.41	7.0	8.0	11.0	10.0			
	23.0	228	1.2	60.92	7.0	8.0	11.0	10.0			
	28.1	191	1.4	49.84	8.0	8.0	11.0	10.0			
	31.9	168	1.5	43.90	8.0	8.0	11.0	10.0			
	36.0	151	1.6	38.87	7.0	8.0	11.0	10.0			
	40.1	145	1.8	34.94	7.0	8.0	11.0	10.0			
	49.0	120	2.0	28.59	7.0	8.0	11.0	10.0			
	55.6	107	2.3	25.18	6.0	8.0	11.0	10.0			
	62.8	95	2.6	22.29	6.0	8.0	11.0	10.0			
	73.6	82	2.6	19.01	6.0	8.0	11.0	10.0			
	89.9	69	2.7	15.58	6.0	8.0	11.0	10.0			
	25.3	204	0.8	35.63	5.0	8.0	6.0	8.0	PSH 2050 90S6B / 90L6C	28	96-97
	29.1	197	0.8	30.93	5.0	6.0	6.0	8.0			
	33.1	173	0.9	27.15	5.0	6.0	6.0	8.0			
	37.5	155	1.1	24.00	5.0	6.0	6.0	8.0			
	46.4	127	1.2	19.39	4.0	6.0	6.0	8.0			
	53.3	110	1.1	16.89	4.0	6.0	6.0	8.0			
	60.9	96	1.2	14.77	4.0	5.0	6.0	8.0			
	68.4	90	1.4	13.15	4.0	4.0	6.0	8.0			
	77.4	80	1.5	11.63	4.0	4.0	6.0	8.0			
	95.8	65	1.8	9.39	3.0	4.0	6.0	8.0			
	110.0	57	2.0	8.18	3.0	4.0	6.0	8.0			
	125.9	50	2.2	7.15	5.0	8.0	6.0	8.0			
	24.4	211	0.8	57.27	5.0	8.0	6.0	8.0	PSH 2050 80M4C / 80M4D	24	96-97
	27.7	189	0.8	50.63	5.0	8.0	6.0	8.0			
	34.2	155	1.0	40.91	5.0	8.0	6.0	8.0			
	39.3	137	1.1	35.63	5.0	8.0	6.0	8.0			
	45.3	128	1.2	30.93	5.0	6.0	6.0	8.0			
	51.6	114	1.4	27.15	5.0	6.0	6.0	8.0			
	58.3	101	1.5	24.00	5.0	6.0	6.0	8.0			
	72.2	82	1.8	19.39	4.0	6.0	6.0	8.0			
	82.9	72	1.7	16.89	4.0	6.0	6.0	8.0			
	94.8	63	1.8	14.77	4.0	5.0	6.0	8.0			
	106.5	59	2.1	13.15	4.0	4.0	6.0	8.0			
	120.4	52	2.2	11.63	4.0	4.0	6.0	8.0			
	149.1	42	2.6	9.39	3.0	4.0	6.0	8.0			
	171.1	37	3.0	8.18	3.0	4.0	6.0	8.0			
	52.7	109	0.8	17.08	4.0	4.0	-	-	PSH 2040 90S6B / 90L6C	24	92-93
	60.0	97	0.8	15.01	4.0	4.0	-	-			
	67.8	86	0.9	13.27	4.0	4.0	-	-			
	88.1	67	1.1	10.22	4.0	4.0	-	-			
	102.3	57	1.2	8.80	4.0	4.0	-	-			
	119.8	51	1.2	7.51	4.0	3.0	-	-			
	135.7	45	1.2	6.63	4.0	3.0	-	-			
	176.1	35	1.4	5.11	3.0	3.0	-	-			
	204.5	30	1.6	4.40	3.0	3.0	-	-			
	63.6	83	0.9	22.00	3.0	4.0	-	-	PSH 2040 80M4C / 80M4D	20	92-93
	71.6	81	1.0	19.55	4.0	4.0	-	-			
	82.0	71	1.1	17.08	4.0	4.0	-	-			
	93.3	63	1.2	15.01	4.0	4.0	-	-			
	105.5	56	1.3	13.27	4.0	4.0	-	-			
	137.0	43	1.6	10.22	4.0	4.0	-	-			
	159.1	37	1.7	8.80	4.0	4.0	-	-			
	186.4	33	1.7	7.51	4.0	3.0	-	-			
	211.2	30	1.8	6.63	4.0	3.0	-	-			
	274.0	23	2.1	5.11	3.0	3.0	-	-			
	318.2	20	2.3	4.40	3.0	3.0	-	-			

P_1 [kW]	n_2 [Min^{-1}]	M_2 [Nm]	f_B	i_{ges}	F_R [N]	F_A [N]	$F_{R\,GR}$ [N]	$F_{A\,GR}$ [N]	Tip / Type / Typ IE2 / IE3	Kg	mm
1.10	1.6	4277	0.8	546.92	27.0	21.0	27.0	28.0	PSH 3125 90L6C / 90L6D	117	132-133
	2.0	3527	0.9	444.38	27.0	21.0	27.0	28.0			
	2.4	3061	0.9	380.02	27.0	21.0	27.0	28.0			
	2.8	2601	1.0	323.00	27.0	21.0	27.0	28.0			
	3.3	2207	1.3	270.16	27.0	21.0	27.0	28.0			
	3.8	1934	1.5	236.72	27.0	21.0	27.0	28.0			
	4.8	1576	1.7	187.50	27.0	21.0	27.0	28.0			
	5.9	1298	2.1	152.34	27.0	21.0	-	-			
	6.9	1125	2.3	130.28	27.0	21.0	-	-			
	8.1	972	2.6	110.99	27.0	21.0	-	-			
	10.5	814	2.3	86.11	27.0	21.0	-	-			
	12.9	670	2.4	69.97	27.0	21.0	-	-			
	14.4	606	2.7	62.60	27.0	21.0	-	-			
	1.5	3622	0.9	928.25	18.0	21.0	27.0	28.0	PSH 3125 90L4B / 90L4C	117	132-133
	1.8	3157	1.0	793.81	26.0	21.0	27.0	28.0			
	2.0	3523	0.8	690.49	25.0	21.0	27.0	28.0			
	2.3	3099	0.9	607.31	27.0	21.0	27.0	28.0			
	2.6	2832	1.1	546.92	27.0	21.0	27.0	28.0			
	3.2	2301	1.3	444.38	27.0	21.0	27.0	28.0			
	3.7	1996	1.3	380.02	27.0	21.0	27.0	28.0			
	4.3	1721	1.4	323.00	27.0	21.0	27.0	28.0			
	5.2	1460	1.9	270.16	27.0	21.0	27.0	28.0			
	5.9	1297	2.2	236.72	27.0	21.0	27.0	28.0			
	7.5	1041	2.5	187.50	27.0	21.0	27.0	28.0			
	9.2	869	3.0	152.34	-	-	-	-			
	1.8	3066	1.0	495.64	27.0	21.0	27.0	28.0	PSH 2125 90L6C / 90L6D	102	128-129
	4.5	1413	2.0	201.71	27.0	21.0	27.0	28.0			
	4.9	1300	2.1	182.58	27.0	21.0	27.0	28.0			
	5.6	1181	2.2	160.58	27.0	21.0	27.0	28.0			
	6.2	1080	2.3	144.62	27.0	21.0	27.0	28.0			
	7.7	905	2.6	117.50	27.0	21.0	27.0	28.0			
	9.0	798	2.8	100.48	27.0	21.0	27.0	28.0			
	2.0	2819	1.0	695.60	23.0	21.0	27.0	28.0	PSH 2125 90L4B / 90L4C	102	128-129
	2.8	2083	1.4	495.64	27.0	21.0	27.0	28.0			
	6.9	984	2.7	201.71	27.0	21.0	27.0	28.0			
	7.7	904	2.8	183.58	27.0	21.0	27.0	28.0			
	3.0	1848	0.9	298.69	16.0	12.0	-	-	PSH 3100 90L6C / 90L6D	74	124-125
	3.5	2073	0.8	257.40	16.0	12.0	-	-			
	6.3	1180	1.2	142.38	16.0	12.0	-	-			
	7.4	1103	1.1	121.20	16.0	12.0	-	-			
	8.2	1008	1.2	109.34	16.0	12.0	-	-			
	10.6	795	1.4	85.18	16.0	12.0	-	-			
	12.9	651	1.7	69.69	16.0	12.0	-	-			
	16.8	533	1.4	53.68	16.0	12.0	-	-			
	2.7	2027	0.8	519.44	16.0	12.0	-	-	PSH 3100 90L4B / 90L4C	74	124-125
	3.0	1864	0.9	468.59	16.0	12.0	-	-			
	3.8	1507	1.0	365.06	16.0	12.0	-	-			
	4.7	1255	1.2	298.69	16.0	12.0	-	-			
	5.4	1352	1.1	257.40	-	-	-	-			
	9.8	791	1.7	142.38	-	-	-	-			
	11.6	728	1.6	121.20	-	-	-	-			
	12.8	656	1.8	109.34	-	-	-	-			
	16.4	518	2.1	85.18	-	-	-	-			
	20.1	429	2.5	69.69	-	-	-	-			
	26.1	346	2.0	53.68	-	-	-	-			
	3.0	1880	0.8	303.85	14.0	12.0	16.0	16.0	PSH 2100 90L6C / 90L6D	65	120-121
	3.7	1551	1.0	241.67	16.0	12.0	16.0	16.0			
	4.9	1220	1.2	183.33	16.0	12.0	16.0	16.0			
	5.4	1120	1.2	165.38	16.0	12.0	16.0	16.0			
	7.0	902	1.4	128.85	15.0	12.0	16.0	16.0			
	8.7	764	1.6	103.85	14.0	12.0	16.0	16.0			
	9.5	814	1.7	94.25	14.0	12.0	16.0	16.0			
	12.6	626	2.0	71.50	13.0	12.0	16.0	16.0			
	14.0	572	2.2	64.50	9.0	12.0	16.0	16.0			
	17.9	457	2.5	50.25	9.0	12.0	16.0	16.0			
	21.0	414	2.8	42.78	9.0	12.0	16.0	16.0			

P_1 [kW]	n_2 [Min^{-1}]	M_2 [Nm]	f_B	i_{ges}	F_R [N]	F_A [N]	$F_{R\,GR}$ [N]	$F_{A\,GR}$ [N]	Tip / Type / Typ IE2 / IE3	Kg	mm
1.10	3.4	1661	0.8	410.00	10.0	12.0	16.0	16.0			
	4.6	1277	1.1	303.85	14.0	12.0	16.0	16.0			
	5.8	1052	1.4	241.67	16.0	12.0	16.0	16.0			
	7.6	839	1.6	183.33	16.0	12.0	16.0	16.0			
	8.5	769	1.7	165.38	16.0	12.0	16.0	16.0	**PSH 2100**		
	10.9	628	2.0	128.85	15.0	12.0	16.0	16.0	**90L4B / 90L4C**	65	120-121
	13.5	522	2.2	103.85	14.0	12.0	16.0	16.0			
	14.9	537	2.4	94.25	14.0	12.0	16.0	16.0			
	19.6	418	2.9	71.50	13.0	12.0	16.0	16.0			
	6.5	903	0.8	138.13	8.0	9.0	13.0	12.0			
	7.3	822	0.8	123.58	8.0	9.0	13.0	12.0			
	8.5	719	0.9	106.25	9.0	9.0	13.0	12.0			
	9.6	648	0.9	94.15	9.0	9.0	13.0	12.0			
	11.4	662	1.0	78.83	9.0	9.0	13.0	12.0			
	13.5	566	1.2	66.45	10.0	9.0	13.0	12.0			
	15.5	503	1.3	58.23	10.0	9.0	13.0	12.0			
	17.3	456	1.3	52.10	9.0	9.0	13.0	12.0			
	20.1	397	1.5	44.79	9.0	9.0	13.0	12.0	**PSH 2080**		
	23.8	363	1.6	37.89	9.0	9.0	13.0	12.0	**90L6C / 90L6D**	43	112-113
	28.2	306	1.8	31.94	8.0	9.0	13.0	12.0			
	32.2	271	2.0	27.99	8.0	9.0	13.0	12.0			
	35.9	243	2.1	25.04	7.0	9.0	13.0	12.0			
	41.8	211	2.3	21.53	7.0	9.0	13.0	12.0			
	47.2	189	2.5	19.08	7.0	9.0	13.0	12.0			
	56.4	164	2.5	15.97	7.0	9.0	13.0	12.0			
	64.3	144	2.7	13.99	7.0	9.0	13.0	12.0			
	71.9	129	2.8	12.52	7.0	9.0	13.0	12.0			
	7.5	800	0.8	187.00	8.0	9.0	13.0	12.0			
	8.9	686	1.0	157.64	7.0	9.0	13.0	12.0			
	10.1	622	1.0	138.13	8.0	9.0	13.0	12.0			
	11.3	566	1.1	123.58	8.0	9.0	13.0	12.0			
	13.2	494	1.2	106.25	9.0	9.0	13.0	12.0			
	14.9	445	1.3	94.15	9.0	9.0	13.0	12.0			
	17.8	444	1.5	78.83	9.0	9.0	13.0	12.0	**PSH 2080**		
	21.1	379	1.7	66.45	10.0	9.0	13.0	12.0	**90L4B / 90L4C**	43	112-113
	24.0	336	1.8	58.23	10.0	9.0	13.0	12.0			
	26.9	301	1.9	52.10	9.0	9.0	13.0	12.0			
	31.3	262	2.1	44.79	9.0	9.0	13.0	12.0			
	36.9	236	2.3	37.89	9.0	9.0	13.0	12.0			
	43.8	201	2.6	31.94	8.0	9.0	13.0	12.0			
	50.0	179	2.9	27.99	8.0	9.0	13.0	12.0			
	23.2	336	0.8	38.87	7.0	8.0	11.0	10.0			
	25.8	326	0.8	34.94	7.0	8.0	11.0	10.0			
	31.5	270	1.0	28.59	6.0	8.0	11.0	10.0			
	35.7	238	1.1	25.18	6.0	8.0	11.0	10.0			
	40.4	213	1.2	22.29	6.0	8.0	11.0	10.0			
	47.3	182	1.2	19.01	6.0	8.0	11.0	10.0	**PSH 2063**		
	57.8	156	1.3	15.58	5.0	8.0	11.0	10.0	**90L6C / 90L6D**	33	104-105
	70.6	129	1.5	12.75	5.0	7.0	11.0	10.0			
	80.1	114	1.6	11.23	5.0	7.0	11.0	10.0			
	90.5	102	1.7	9.94	5.0	7.0	10.0	10.0			
	106.1	87	2.0	8.48	5.0	7.0	10.0	10.0			
	121.6	76	2.2	7.40	7.0	8.0	10.0	10.0			
	20.5	375	0.8	68.41	7.0	8.0	11.0	10.0			
	23.0	334	0.8	60.92	7.0	8.0	11.0	10.0			
	28.1	280	0.9	49.84	7.0	8.0	11.0	10.0			
	31.9	247	1.0	43.90	7.0	8.0	11.0	10.0			
	36.0	222	1.1	38.87	7.0	8.0	11.0	10.0			
	40.1	212	1.2	34.94	7.0	8.0	11.0	10.0			
	49.0	176	1.4	28.59	6.0	8.0	11.0	10.0			
	55.6	157	1.6	25.18	6.0	8.0	11.0	10.0	**PSH 2063**		
	62.8	139	1.8	22.29	6.0	8.0	11.0	10.0	**90L4B / 90L4C**	33	104-105
	73.6	120	1.8	19.01	6.0	8.0	11.0	10.0			
	89.9	102	1.9	15.58	5.0	8.0	11.0	10.0			
	109.8	84	2.1	12.75	5.0	7.0	11.0	10.0			
	124.7	74	2.4	11.23	5.0	7.0	11.0	10.0			
	140.8	66	2.6	9.94	5.0	7.0	10.0	10.0			
	165.1	57	2.9	8.48	5.0	7.0	10.0	10.0			

P_1 [kW]	n_2 [Min^{-1}]	M_2 [Nm]	f_B	i_{ges}	F_R [N]	F_A [N]	$F_{R\,GR}$ [N]	$F_{A\,GR}$ [N]	Tip / Type / Typ IE2 / IE3	Kg	mm
1.10	46.4	186	0.8	19.39	4.0	5.0	6.0	8.0	PSH 2050 90L6C / 90L6D	28	96-97
	53.3	162	0.8	16.89	4.0	5.0	6.0	8.0			
	60.9	141	0.8	14.77	4.0	5.0	6.0	8.0			
	68.4	132	1.0	13.15	3.0	3.0	6.0	8.0			
	77.4	117	1.0	11.63	3.0	3.0	6.0	8.0			
	95.8	95	1.2	9.39	3.0	3.0	6.0	8.0			
	110.0	83	1.4	8.18	3.0	3.0	6.0	8.0			
	125.9	73	1.5	7.15	3.0	3.0	6.0	8.0			
	39.3	201	0.8	35.63	5.0	8.0	6.0	8.0	PSH 2050 90L4B / 90L4C	28	96-97
	45.3	188	0.8	30.93	5.0	6.0	6.0	8.0			
	51.6	167	0.9	27.15	5.0	6.0	6.0	8.0			
	58.3	148	1.0	24.00	4.0	5.0	6.0	8.0			
	72.2	121	1.2	19.39	4.0	5.0	6.0	8.0			
	82.9	105	1.1	16.89	4.0	5.0	6.0	8.0			
	94.8	93	1.2	14.77	4.0	5.0	6.0	8.0			
	106.5	86	1.4	13.15	3.0	3.0	6.0	8.0			
	120.4	76	1.5	11.63	3.0	3.0	6.0	8.0			
	149.1	62	1.8	9.39	3.0	3.0	6.0	8.0			
	171.1	54	2.0	8.18	3.0	3.0	6.0	8.0			
	195.8	47	2.2	7.15	3.0	3.0	6.0	8.0			
	102.3	84	0.8	8.80	4.0	3.0	-	-	PSH 2040 90L6C / 90L6D	24	92-93
	119.8	75	0.8	7.51	3.0	2.0	-	-			
	135.7	67	0.9	6.63	3.0	2.0	-	-			
	176.1	52	1.0	5.11	3.0	2.0	-	-			
	204.5	45	1.1	4.40	3.0	2.0	-	-			
	82.0	104	0.8	17.08	4.0	4.0	-	-	PSH 2040 90L4B / 90L4C	24	92-93
	93.3	92	0.8	15.01	3.0	3.0	-	-			
	105.5	82	0.9	13.27	4.0	3.0	-	-			
	137.0	64	1.1	10.22	4.0	3.0	-	-			
	159.1	55	1.2	8.80	4.0	3.0	-	-			
	186.4	49	1.2	7.51	3.0	2.0	-	-			
	211.2	43	1.2	6.63	3.0	2.0	-	-			
	274.0	34	1.4	5.11	3.0	2.0	-	-			
	318.2	29	1.6	4.40	3.0	2.0	-	-			
1.50	3.3	3010	1.0	270.16	27.0	21.0	27.0	28.0	PSH 3125 100L6C / 100L6D	127	132-133
	3.8	2637	1.1	236.72	27.0	21.0	27.0	28.0			
	4.8	2149	1.3	187.50	27.0	21.0	27.0	28.0			
	5.9	1770	1.5	152.34	27.0	21.0	-	-			
	6.9	1534	1.7	130.28	27.0	21.0	-	-			
	8.1	1325	1.9	110.99	27.0	21.0	-	-			
	10.5	1110	1.7	86.11	27.0	21.0	-	-			
	12.9	913	1.8	69.97	27.0	21.0	-	-			
	14.4	827	2.0	62.60	27.0	21.0	-	-			
	2.6	3861	0.8	546.92	27.0	21.0	27.0	28.0	PSH 3125 90L4C / 90L4D	117	132-133
	3.2	3137	1.0	444.38	27.0	21.0	27.0	28.0			
	3.7	2722	1.0	380.02	27.0	21.0	27.0	28.0			
	4.3	2347	1.0	323.00	27.0	21.0	27.0	28.0			
	5.2	1990	1.4	270.16	27.0	21.0	27.0	28.0			
	5.9	1768	1.6	236.72	27.0	21.0	27.0	28.0			
	7.5	1420	1.8	187.50	27.0	21.0	27.0	28.0			
	9.2	1185	2.2	152.34	-	-	-	-			
	10.7	1026	2.4	130.28	-	-	-	-			
	12.6	886	2.7	110.99	-	-	-	-			
	16.3	731	2.4	86.11	-	-	-	-			
	20.0	601	2.6	69.97	-	-	-	-			
	22.4	544	2.9	62.60	-	-	-	-			
	2.7	3009	1.0	337.55	27.0	21.0	27.0	28.0	PSH 2125 100L6C / 100L6D	112	128-129
	4.5	1926	1.4	201.71	27.0	21.0	27.0	28.0			
	4.9	1773	1.5	182.58	27.0	21.0	27.0	28.0			
	5.6	1610	1.6	160.58	27.0	21.0	27.0	28.0			
	6.2	1473	1.7	144.62	27.0	21.0	27.0	28.0			
	7.7	1234	1.9	117.50	25.0	21.0	27.0	28.0			
	9.0	1088	2.1	100.48	24.0	21.0	27.0	28.0			
	10.3	1071	2.3	87.40	23.0	21.0	27.0	28.0			
	11.7	954	2.5	76.88	23.0	21.0	27.0	28.0			
	13.0	859	2.7	69.23	23.0	21.0	27.0	28.0			
	16.0	716	3.0	56.25	23.0	21.0	27.0	28.0			

P_1 [kW]	n_2 [Min^{-1}]	M_2 [Nm]	f_B	i_{ges}	F_R [N]	F_A [N]	$F_{R\,GR}$ [N]	$F_{A\,GR}$ [N]	Tip / Type / Typ IE2 / IE3	Kg	mm
1.50	2.8	2840	1.0	495.64	23.0	21.0	27.0	28.0	**PSH 2125 90L4C / 90L4D**	102	128-129
	6.9	1342	2.0	201.71	27.0	21.0	27.0	28.0			
	7.7	1233	2.1	182.58	27.0	21.0	27.0	28.0			
	8.7	1101	2.2	160.58	27.0	21.0	27.0	28.0			
	9.7	1006	2.4	144.62	27.0	21.0	27.0	28.0			
	11.9	854	2.6	117.50	25.0	21.0	27.0	28.0			
	13.9	740	2.9	100.48	24.0	21.0	27.0	28.0			
	4.7	1711	0.9	298.69	16.0	12.0	-	-	**PSH 3100 90L4C / 90L4D**	74	124-125
	5.4	1844	0.8	257.40	-	-	-	-			
	9.8	1078	1.2	142.38	-	-	-	-			
	11.6	992	1.2	121.20	-	-	-	-			
	12.8	895	1.3	109.34	-	-	-	-			
	16.4	706	1.5	85.18	-	-	-	-			
	20.1	585	1.8	69.69	-	-	-	-			
	26.1	472	1.5	53.68	-	-	-	-			
	4.9	1663	0.9	183.33	15.0	12.0	16.0	16.0	**PSH 2100 100L6C / 100L6D**	75	120-121
	5.4	1527	0.9	165.38	15.0	12.0	16.0	16.0			
	7.0	1231	1.1	128.85	14.0	12.0	16.0	16.0			
	8.7	1041	1.2	103.85	13.0	12.0	16.0	16.0			
	9.5	1110	1.2	94.25	13.0	12.0	16.0	16.0			
	12.6	854	1.5	71.50	12.0	12.0	16.0	16.0			
	14.0	780	1.6	64.50	12.0	12.0	16.0	16.0			
	17.9	624	1.9	50.25	11.0	12.0	16.0	16.0			
	21.0	565	2.0	42.78	11.0	12.0	16.0	16.0			
	23.3	510	2.3	38.59	10.0	12.0	16.0	16.0			
	26.2	437	2.6	34.29	10.0	12.0	16.0	16.0			
	29.9	402	2.7	30.06	10.0	12.0	16.0	16.0			
	47.5	265	2.8	18.94	10.0	12.0	16.0	16.0			
	4.6	1741	0.8	303.85	14.0	12.0	16.0	16.0	**PSH 2100 90L4C / 90L4D**	65	120-121
	5.8	1434	1.0	241.67	13.0	12.0	16.0	16.0			
	7.6	1144	1.2	183.33	15.0	12.0	16.0	16.0			
	8.5	1049	1.3	165.38	15.0	12.0	16.0	16.0			
	10.9	857	1.4	128.85	14.0	12.0	16.0	16.0			
	13.5	712	1.6	103.85	13.0	12.0	16.0	16.0			
	14.9	733	1.8	94.25	13.0	12.0	16.0	16.0			
	19.6	571	2.1	71.50	12.0	12.0	16.0	16.0			
	21.7	521	2.3	64.50	12.0	12.0	16.0	16.0			
	27.9	411	2.7	50.25	11.0	12.0	16.0	16.0			
	32.7	372	3.0	42.78	11.0	12.0	16.0	16.0			
	11.4	903	0.8	78.83	8.0	9.0	13.0	12.0	**PSH 2080 100L6C / 100L6D**	53	112-113
	13.5	772	0.9	66.45	9.0	9.0	13.0	12.0			
	15.5	686	0.9	58.23	9.0	9.0	13.0	12.0			
	17.3	622	1.0	52.10	9.0	9.0	13.0	12.0			
	20.1	542	1.1	44.79	9.0	9.0	13.0	12.0			
	23.8	495	1.2	37.89	8.0	9.0	13.0	12.0			
	28.2	417	1.3	31.94	8.0	9.0	13.0	12.0			
	32.2	370	1.4	27.99	8.0	9.0	13.0	12.0			
	35.9	331	1.6	25.04	7.0	9.0	13.0	12.0			
	41.8	288	1.7	21.53	7.0	9.0	13.0	12.0			
	47.2	258	1.9	19.08	7.0	9.0	13.0	12.0			
	56.4	224	1.9	15.97	6.0	9.0	13.0	12.0			
	64.3	196	2.0	13.99	6.0	9.0	13.0	12.0			
	71.9	175	2.1	12.52	6.0	8.0	13.0	12.0			
	83.6	152	2.3	10.76	8.0	9.0	13.0	12.0			
	94.3	135	2.6	9.54	8.0	9.0	13.0	12.0			
	119.2	108	2.9	7.55	8.0	9.0	12.0	12.0			

P_1 [kW]	n_2 [Min^{-1}]	M_2 [Nm]	f_B	i_{ges}	F_R [N]	F_A [N]	$F_{R\,GR}$ [N]	$F_{A\,GR}$ [N]	Tip / Type / Typ IE2 / IE3	Kg	mm
1.50	10.1	848	0.8	138.13	8.0	9.0	13.0	12.0	PSH 2080 90L4C / 90L4D	43	112-113
	11.3	771	0.8	123.58	8.0	9.0	13.0	12.0			
	13.2	674	0.9	106.25	9.0	9.0	13.0	12.0			
	14.9	607	0.9	94.15	8.0	9.0	13.0	12.0			
	17.8	605	1.1	78.83	8.0	9.0	13.0	12.0			
	21.1	517	1.2	66.45	9.0	9.0	13.0	12.0			
	24.0	459	1.3	58.23	9.0	9.0	13.0	12.0			
	26.9	410	1.4	52.10	9.0	9.0	13.0	12.0			
	31.3	357	1.5	44.79	9.0	9.0	13.0	12.0			
	36.9	322	1.7	37.89	8.0	9.0	13.0	12.0			
	43.8	275	1.9	31.94	8.0	9.0	13.0	12.0			
	50.0	243	2.1	27.99	8.0	9.0	13.0	12.0			
	55.9	218	2.2	25.04	7.0	9.0	13.0	12.0			
	65.0	189	2.5	21.53	7.0	8.0	13.0	12.0			
	73.4	168	2.7	19.08	7.0	9.0	13.0	12.0			
	87.7	145	2.7	15.97	6.0	9.0	13.0	12.0			
	100.1	127	2.9	13.99	6.0	9.0	13.0	12.0			
	111.8	115	3.0	12.52	6.0	8.0	13.0	12.0			
	35.7	325	0.8	25.18	6.0	8.0	11.0	10.0	PSH 2063 100L6C / 100L6D	43	104-105
	40.4	291	0.9	22.29	6.0	8.0	11.0	10.0			
	47.3	248	0.9	19.01	5.0	8.0	11.0	10.0			
	57.8	213	0.9	15.58	5.0	7.0	11.0	10.0			
	70.6	177	1.1	12.75	5.0	7.0	11.0	10.0			
	80.1	156	1.2	11.23	5.0	6.0	11.0	10.0			
	90.5	139	1.3	9.94	4.0	6.0	10.0	10.0			
	106.1	119	1.5	8.48	4.0	6.0	10.0	10.0			
	121.6	104	1.6	7.40	4.0	6.0	10.0	10.0			
	36.0	302	0.8	38.87	7.0	8.0	11.0	10.0	PSH 2063 90L4C / 90L4D	33	104-105
	40.1	290	0.9	34.94	7.0	8.0	11.0	10.0			
	49.0	240	1.0	28.59	6.0	8.0	11.0	10.0			
	55.6	214	1.1	25.18	6.0	8.0	11.0	10.0			
	62.8	189	1.3	22.29	6.0	8.0	11.0	10.0			
	73.6	163	1.3	19.01	5.0	8.0	11.0	10.0			
	89.9	139	1.4	15.58	5.0	7.0	11.0	10.0			
	109.8	115	1.6	12.75	5.0	7.0	11.0	10.0			
	124.7	101	1.7	11.23	5.0	6.0	11.0	10.0			
	140.8	91	1.9	9.94	4.0	6.0	10.0	10.0			
	165.1	77	2.1	8.48	4.0	6.0	10.0	10.0			
	189.2	68	2.3	7.40	4.0	6.0	10.0	10.0			
	58.3	201	0.8	24.00	4.0	5.0	6.0	8.0	PSH 2050 90L4C / 90L4D	28	96-97
	72.2	165	0.9	19.39	4.0	5.0	6.0	8.0			
	82.9	143	0.8	16.89	4.0	4.0	6.0	8.0			
	94.8	127	0.9	14.77	4.0	4.0	6.0	8.0			
	106.5	117	1.0	13.15	2.0	2.0	6.0	7.0			
	120.4	104	1.1	11.63	3.0	2.0	6.0	7.0			
	149.1	85	1.3	9.39	3.0	3.0	6.0	7.0			
	171.1	74	1.5	8.18	3.0	3.0	6.0	7.0			
	195.8	64	1.6	7.15	3.0	3.0	6.0	7.0			
	137.0	87	0.8	10.22	4.0	3.0	-	-	PSH 2040 90L4C / 90L4D	24	92-93
	159.1	75	0.9	8.80	4.0	3.0	-	-			
	186.4	67	0.9	7.51	3.0	2.0	-	-			
	211.2	59	0.9	6.63	3.0	2.0	-	-			
	274.0	46	1.0	5.11	3.0	2.0	-	-			
	318.2	40	1.2	4.40	3.0	2.0	-	-			
2.20	3.8	3868	0.8	236.72	27.0	21.0	-	-	PSH 3125 112M6C / 112M6D	135	132-133
	4.8	3152	0.9	187.50	27.0	21.0	-	-			
	5.9	2596	1.0	152.34	27.0	21.0	-	-			
	6.9	2251	1.2	130.28	27.0	21.0	-	-			
	8.1	1943	1.3	110.99	27.0	21.0	-	-			
	10.5	1628	1.1	86.11	27.0	21.0	-	-			
	12.9	1339	1.2	69.97	27.0	21.0	-	-			
	14.4	1213	1.4	62.60	27.0	21.0	-	-			
	5.2	2919	1.0	270.16	27.0	21.0	-	-	PSH 3125 100L4B / 100L4C	127	132-133
	5.9	2593	1.1	236.72	27.0	21.0	-	-			
	7.5	2082	1.2	187.50	27.0	21.0	-	-			
	9.2	1738	1.5	152.34	-	-	-	-			
	10.7	1505	1.6	130.28	-	-	-	-			
	12.6	1299	1.8	110.99	-	-	-	-			
	16.3	1073	1.6	86.11	-	-	-	-			
	20.0	882	1.8	69.97	-	-	-	-			
	22.4	799	2.0	62.60	-	-	-	-			

P_1 [kW]	n_2 [Min^{-1}]	M_2 [Nm]	f_B	i_{ges}	F_R [N]	F_A [N]	$F_{R\,GR}$ [N]	$F_{A\,GR}$ [N]	Tip / Type / Typ IE2 / IE3	Kg	mm
2.20	4.5	2825	1.0	201.71	27.0	21.0	27.0	28.0	PSH 2125 112M6C / 112M6D	120	128-129
	4.9	2600	1.0	182.58	27.0	21.0	27.0	28.0			
	5.6	2362	1.1	160.58	26.0	21.0	27.0	28.0			
	6.2	2161	1.2	144.62	25.0	21.0	27.0	28.0			
	7.7	1810	1.3	117.50	24.0	21.0	27.0	28.0			
	9.0	1595	1.4	100.48	23.0	21.0	27.0	28.0			
	10.3	1571	1.6	87.40	22.0	21.0	27.0	28.0			
	11.7	1400	1.7	76.88	21.0	21.0	27.0	28.0			
	13.0	1261	1.8	69.23	21.0	21.0	27.0	28.0			
	16.0	1051	2.1	56.25	20.0	21.0	27.0	28.0			
	18.7	910	2.3	48.10	23.0	21.0	27.0	28.0			
	22.0	784	2.5	40.98	23.0	21.0	27.0	28.0			
	25.5	709	2.4	35.31	23.0	21.0	27.0	28.0			
	28.3	638	3.0	31.79	23.0	21.0	27.0	28.0			
	4.1	2989	1.0	337.55	23.0	21.0	27.0	28.0	PSH 2125 100L4B / 100L4C	112	128-129
	6.9	1968	1.3	201.71	27.0	21.0	27.0	28.0			
	7.7	1808	1.4	182.58	27.0	21.0	27.0	28.0			
	8.7	1615	1.5	160.58	26.0	21.0	27.0	28.0			
	9.7	1476	1.6	144.62	25.0	21.0	27.0	28.0			
	11.9	1252	1.8	117.50	24.0	21.0	27.0	28.0			
	13.9	1086	2.0	100.48	23.0	21.0	27.0	28.0			
	16.0	1049	2.2	87.40	22.0	21.0	27.0	28.0			
	18.2	935	2.5	76.88	21.0	21.0	27.0	28.0			
	20.2	842	2.6	69.23	21.0	21.0	27.0	28.0			
	24.9	701	2.9	56.25	20.0	21.0	27.0	28.0			
	8.7	1527	0.8	103.85	12.0	12.0	16.0	16.0	PSH 2100 112M6C / 112M6D	83	120-121
	9.5	1628	0.8	94.25	11.0	12.0	16.0	16.0			
	12.6	1252	1.0	71.50	11.0	12.0	16.0	16.0			
	14.0	1144	1.1	64.50	11.0	12.0	16.0	16.0			
	17.9	915	1.3	50.25	10.0	12.0	16.0	16.0			
	21.0	829	1.4	42.78	10.0	12.0	16.0	16.0			
	23.3	748	1.5	38.59	10.0	12.0	16.0	16.0			
	26.2	640	1.8	34.29	9.0	12.0	16.0	16.0			
	29.9	589	1.9	30.06	9.0	12.0	16.0	16.0			
	37.1	481	2.2	24.23	8.0	12.0	16.0	16.0			
	43.9	412	2.1	20.52	8.0	12.0	16.0	16.0			
	47.5	389	1.9	18.94	8.0	12.0	16.0	16.0			
	52.7	355	2.1	17.09	14.0	12.0	16.0	16.0			
	55.4	330	2.4	16.25	14.0	12.0	16.0	16.0			
	67.6	277	2.7	13.31	14.0	12.0	16.0	16.0			
	7.6	1678	0.8	183.33	15.0	12.0	16.0	16.0	PSH 2100 100L4B / 100L4C	75	120-121
	8.5	1539	0.9	165.38	15.0	12.0	16.0	16.0			
	10.9	1257	1.0	128.85	12.0	12.0	16.0	16.0			
	13.5	1044	1.1	103.85	12.0	12.0	16.0	16.0			
	14.9	1075	1.2	94.25	11.0	12.0	16.0	16.0			
	19.6	837	1.5	71.50	11.0	12.0	16.0	16.0			
	21.7	765	1.6	64.50	11.0	12.0	16.0	16.0			
	27.9	603	1.8	50.25	10.0	12.0	16.0	16.0			
	32.7	546	2.0	42.78	10.0	12.0	16.0	16.0			
	36.3	492	2.2	38.59	10.0	12.0	16.0	16.0			
	40.8	427	2.6	34.29	9.0	12.0	16.0	16.0			
	46.6	388	2.7	30.06	9.0	12.0	16.0	16.0			
	73.9	256	2.8	18.94	8.0	10.0	16.0	16.0			
	23.8	725	0.8	37.89	7.0	9.0	13.0	12.0	PSH 2080 112M6C / 112M6D	61	112-113
	28.2	611	0.9	31.94	7.0	9.0	13.0	12.0			
	32.2	542	1.0	27.99	7.0	9.0	13.0	12.0			
	35.9	485	1.1	25.04	7.0	9.0	13.0	12.0			
	41.8	422	1.2	21.53	7.0	9.0	13.0	12.0			
	47.2	379	1.3	19.08	7.0	9.0	13.0	12.0			
	56.4	328	1.3	15.97	6.0	7.0	13.0	12.0			
	64.3	287	1.3	13.99	6.0	7.0	13.0	12.0			
	71.9	257	1.4	12.52	6.0	7.0	13.0	12.0			
	83.6	224	1.6	10.76	5.0	7.0	13.0	12.0			
	94.3	198	1.8	9.54	5.0	7.0	12.0	12.0			
	119.2	159	2.0	7.55	5.0	6.0	12.0	12.0			

P_1 [kW]	n_2 [Min^{-1}]	M_2 [Nm]	f_B	i_{ges}	F_R [N]	F_A [N]	$F_{R\,GR}$ [N]	$F_{A\,GR}$ [N]	Tip / Type / Typ IE2 / IE3	Kg	mm
2.20	21.1	758	0.8	66.45	9.0	9.0	13.0	12.0	PSH 2080 100L4B / 100L4C	53	112-113
	24.0	673	0.9	58.23	9.0	9.0	13.0	12.0			
	26.9	602	1.0	52.10	8.0	9.0	13.0	12.0			
	31.3	524	1.0	44.79	8.0	9.0	13.0	12.0			
	36.9	742	1.2	37.89	7.0	9.0	13.0	12.0			
	43.8	403	1.3	31.94	7.0	9.0	13.0	12.0			
	50.0	357	1.4	27.99	7.0	9.0	13.0	12.0			
	55.9	319	1.5	25.04	7.0	9.0	13.0	12.0			
	65.0	278	1.7	21.53	7.0	9.0	13.0	12.0			
	73.4	246	1.8	19.08	7.0	9.0	13.0	12.0			
	87.7	213	1.9	15.97	6.0	7.0	13.0	12.0			
	100.1	187	2.0	13.99	6.0	7.0	13.0	12.0			
	111.8	169	2.0	12.52	6.0	7.0	13.0	12.0			
	130.1	145	2.3	10.76	5.0	7.0	13.0	12.0			
	146.8	129	2.6	9.54	5.0	7.0	12.0	12.0			
	185.4	103	2.9	7.55	5.0	6.0	12.0	12.0			
	55.6	314	0.8	25.18	6.0	8.0	11.0	10.0	PSH 2063 100L4B / 100L4C	43	104-105
	62.8	278	0.9	22.29	6.0	8.0	11.0	10.0			
	73.6	240	0.9	19.01	5.0	7.0	11.0	10.0			
	89.9	203	0.9	15.58	4.0	5.0	11.0	10.0			
	109.8	168	1.1	12.75	4.0	5.0	10.0	10.0			
	124.7	148	1.2	11.23	4.0	5.0	10.0	10.0			
	140.8	133	1.3	9.94	4.0	5.0	10.0	10.0			
	165.1	113	1.5	8.48	4.0	5.0	9.0	9.0			
	189.2	100	1.6	7.40	4.0	5.0	9.0	9.0			
3.00	5.9	3536	0.8	236.72	27.0	21.0	-	-	PSH 3125 100L4C / 100L4D	127	132-133
	7.5	2839	0.9	187.50	27.0	21.0	-	-			
	9.2	2369	1.1	152.34	-	-	-	-			
	10.7	2053	1.2	130.28	-	-	-	-			
	12.6	1772	1.3	110.99	-	-	-	-			
	16.3	1463	1.2	86.11	-	-	-	-			
	20.0	1203	1.3	69.97	-	-	-	-			
	22.4	1089	1.4	62.60	-	-	-	-			
	6.2	2946	0.9	144.62	24.0	21.0	27.0	28.0	PSH 2125 132S6A	142	128-129
	7.7	2469	1.0	117.50	23.0	21.0	27.0	28.0			
	9.0	2175	1.0	100.48	22.0	21.0	27.0	28.0			
	10.3	2142	1.2	87.40	21.0	21.0	27.0	28.0			
	11.7	1909	1.3	76.88	20.0	21.0	27.0	28.0			
	13.0	1719	1.4	69.23	20.0	21.0	27.0	28.0			
	16.0	1433	1.5	56.25	19.0	21.0	27.0	28.0			
	18.7	1240	1.7	48.10	18.0	21.0	27.0	28.0			
	22.0	1070	1.8	40.98	17.0	21.0	27.0	28.0			
	25.5	967	1.7	35.31	17.0	21.0	27.0	28.0			
	28.3	870	2.2	31.79	23.0	21.0	27.0	28.0			
	34.8	715	2.5	25.83	23.0	21.0	27.0	28.0			
	40.7	619	2.7	22.09	23.0	21.0	27.0	28.0			
	47.8	533	3.0	18.82	23.0	21.0	27.0	28.0			
	56.6	456	2.9	15.90	23.0	21.0	27.0	28.0			
	6.9	2683	1.0	201.71	24.0	21.0	27.0	28.0	PSH 2125 100L4C / 100L4D	112	128-129
	7.7	2466	1.0	182.58	24.0	21.0	27.0	28.0			
	8.7	2202	1.1	160.58	24.0	21.0	27.0	28.0			
	9.7	2012	1.2	144.62	24.0	21.0	27.0	28.0			
	11.9	1707	1.3	117.50	23.0	21.0	27.0	28.0			
	13.9	1481	1.4	100.48	22.0	21.0	27.0	28.0			
	16.0	1431	1.6	87.40	21.0	21.0	27.0	28.0			
	18.2	1274	1.8	76.88	20.0	21.0	27.0	28.0			
	20.2	1148	1.9	69.23	20.0	21.0	27.0	28.0			
	24.9	955	2.2	56.25	19.0	21.0	27.0	28.0			
	29.1	827	2.4	48.10	18.0	21.0	27.0	28.0			
	34.2	713	2.6	40.98	17.0	21.0	27.0	28.0			
	39.6	636	2.5	35.31	17.0	21.0	27.0	28.0			

P_1 [kW]	n_2 [Min^{-1}]	M_2 [Nm]	f_B	i_{ges}	F_R [N]	F_A [N]	$F_{R\,GR}$ [N]	$F_{A\,GR}$ [N]	Tip / Type / Typ IE2 / IE3	Kg	mm
3.00	17.9	1248	0.9	50.25	9.0	12.0	16.0	16.0	PSH 2100 132S6A	105	120-121
	26.2	873	1.3	34.29	9.0	12.0	16.0	16.0			
	29.9	804	1.4	30.06	9.0	12.0	16.0	16.0			
	37.1	656	1.6	24.23	8.0	11.0	16.0	16.0			
	43.9	562	1.6	20.52	8.0	11.0	16.0	16.0			
	47.5	531	1.4	18.94	7.0	8.0	16.0	16.0			
	52.7	484	1.5	17.09	7.0	8.0	16.0	16.0			
	55.4	450	1.7	16.25	8.0	10.0	16.0	16.0			
	67.6	377	2.0	13.31	7.0	8.0	16.0	16.0			
	83.9	307	2.5	10.73	15.0	12.0	16.0	16.0			
	99.0	263	2.9	9.09	15.0	12.0	15.0	16.0			
	13.5	1424	0.8	103.85	12.0	12.0	16.0	16.0	PSH 2100 100L4C / 100L4D	75	120-121
	14.9	1466	0.9	94.25	11.0	12.0	16.0	16.0			
	19.6	1141	1.1	71.50	9.0	12.0	16.0	16.0			
	21.7	1043	1.1	64.50	9.0	12.0	16.0	16.0			
	27.9	823	1.3	50.25	9.0	12.0	16.0	16.0			
	32.7	744	1.5	42.78	9.0	12.0	16.0	16.0			
	36.3	671	1.6	38.59	9.0	12.0	16.0	16.0			
	40.8	582	1.9	34.29	9.0	12.0	16.0	16.0			
	46.6	529	2.0	30.06	9.0	12.0	16.0	16.0			
	57.8	431	2.4	24.23	8.0	11.0	16.0	16.0			
	68.2	370	2.3	20.52	8.0	11.0	16.0	16.0			
	73.9	349	2.1	18.94	7.0	8.0	16.0	16.0			
	81.9	315	2.3	17.09	7.0	8.0	16.0	16.0			
	86.2	296	2.5	16.25	8.0	10.0	16.0	16.0			
	105.2	248	2.9	13.31	7.0	8.0	16.0	16.0			
	31.3	715	0.8	44.79	8.0	9.0	13.0	12.0	PSH 2080 100L4C / 100L4D	53	112-113
	36.9	644	0.9	37.89	7.0	9.0	13.0	12.0			
	43.8	549	1.0	31.94	6.0	8.0	13.0	12.0			
	50.0	487	1.0	27.99	6.0	8.0	13.0	12.0			
	55.9	436	1.1	25.04	6.0	9.0	13.0	12.0			
	65.0	379	1.2	21.53	6.0	8.0	13.0	12.0			
	73.4	336	1.4	19.08	6.0	8.0	13.0	12.0			
	87.7	291	1.4	15.97	5.0	6.0	13.0	11.0			
	100.1	255	1.4	13.99	5.0	6.0	13.0	11.0			
	111.8	231	1.5	12.52	5.0	6.0	13.0	11.0			
	130.1	198	1.7	10.76	5.0	6.0	13.0	11.0			
	146.8	176	1.9	9.54	5.0	6.0	12.0	11.0			
	185.4	141	2.1	7.55	5.0	6.0	12.0	11.0			
	109.8	230	0.8	12.75	4.0	5.0	10.0	10.0	PSH 2063 100L4C / 100L4D	43	104-105
	124.7	202	0.9	11.23	4.0	5.0	10.0	10.0			
	140.8	181	0.9	9.94	4.0	5.0	10.0	10.0			
	165.1	154	1.1	8.48	4.0	5.0	9.0	9.0			
	189.2	136	1.1	7.40	4.0	5.0	9.0	9.0			
4.00	9.2	3159	0.8	152.34	-	-	-	-	PSH 3125 112M4C / 112M4D	135	132-133
	10.7	2737	0.9	130.28	-	-	-	-			
	12.6	2362	1.0	110.99	-	-	-	-			
	16.3	1950	0.9	86.11	-	-	-	-			
	20.0	1604	1.0	69.97	-	-	-	-			
	22.4	1452	1.1	62.60	-	-	-	-			
	9.0	2900	0.8	100.48	20.0	21.0	27.0	28.0	PSH 2125 132M6A	142	128-129
	10.3	2856	0.9	87.40	19.0	21.0	27.0	28.0			
	11.7	2545	0.9	76.88	19.0	21.0	27.0	28.0			
	13.0	2292	1.0	69.23	18.0	21.0	27.0	28.0			
	16.0	1910	1.1	56.25	18.0	21.0	27.0	28.0			
	18.7	1654	1.2	48.10	17.0	21.0	27.0	28.0			
	22.0	1426	1.4	40.98	17.0	21.0	27.0	28.0			
	25.5	1289	1.3	35.31	16.0	21.0	27.0	28.0			
	28.3	1160	1.7	31.79	16.0	21.0	27.0	28.0			
	34.8	954	1.9	25.83	15.0	21.0	27.0	28.0			
	40.7	825	2.0	22.09	14.0	21.0	27.0	28.0			
	47.8	711	2.2	18.82	24.0	21.0	27.0	28.0			
	56.6	607	2.1	15.90	24.0	21.0	27.0	27.0			
	61.9	555	2.5	14.54	24.0	21.0	27.0	27.0			
	69.7	499	2.6	12.92	24.0	21.0	26.0	26.0			
	81.4	431	3.0	11.05	24.0	21.0	26.0	25.0			

P_1 [kW]	n_2 [Min^{-1}]	M_2 [Nm]	f_B	i_{ges}	F_R [N]	F_A [N]	$F_{R\,GR}$ [N]	$F_{A\,GR}$ [N]	Tip / Type / Typ IE2 / IE3	Kg	mm
4.00	7.7	3288	0.8	182.58	24.0	21.0	27.0	28.0	PSH 2125 112M4C / 112M4D	120	128-129
	8.7	2936	0.8	160.58	24.0	21.0	27.0	28.0			
	9.7	2683	0.9	144.62	21.0	21.0	27.0	28.0			
	11.9	2276	1.0	117.50	21.0	21.0	27.0	28.0			
	13.9	1974	1.1	100.48	20.0	21.0	27.0	28.0			
	16.0	1908	1.2	87.40	19.0	21.0	27.0	28.0			
	18.2	1699	1.3	76.88	19.0	21.0	27.0	28.0			
	20.2	1530	1.5	69.23	18.0	21.0	27.0	28.0			
	24.9	1274	1.6	56.25	18.0	21.0	27.0	28.0			
	29.1	1102	1.8	48.10	17.0	21.0	27.0	28.0			
	34.2	950	1.9	40.98	17.0	21.0	27.0	28.0			
	39.6	848	1.9	35.31	16.0	21.0	27.0	28.0			
	44.0	763	2.4	31.79	16.0	21.0	27.0	28.0			
	54.2	627	2.7	25.83	15.0	21.0	27.0	28.0			
	63.4	542	3.0	22.09	14.0	20.0	27.0	28.0			
	26.2	1164	1.0	34.29	8.0	12.0	16.0	16.0	PSH 2100 132M6A	105	120-121
	29.9	1072	1.0	30.06	8.0	10.0	16.0	16.0			
	37.1	874	1.2	24.23	8.0	10.0	16.0	16.0			
	43.9	749	1.2	20.52	7.0	10.0	16.0	16.0			
	47.5	707	1.1	18.94	6.0	6.0	16.0	16.0			
	52.7	646	1.2	17.09	6.0	6.0	16.0	16.0			
	55.4	600	1.3	16.25	7.0	9.0	16.0	16.0			
	67.6	503	1.5	13.31	6.0	6.0	16.0	16.0			
	83.9	410	1.9	10.73	6.0	7.0	15.0	16.0			
	99.0	351	2.2	9.09	12.0	12.0	15.0	16.0			
	125.0	278	2.6	7.20	12.0	12.0	14.0	15.0			
	19.6	1522	0.8	71.50	9.0	12.0	16.0	16.0	PSH 2100 112M4C / 112M4D	83	120-121
	21.7	1390	0.9	64.50	9.0	12.0	16.0	16.0			
	27.9	1097	1.0	50.25	8.0	12.0	16.0	16.0			
	32.7	992	1.1	42.78	8.0	9.0	16.0	16.0			
	36.3	895	1.2	38.59	8.0	10.0	16.0	16.0			
	40.8	777	1.4	34.29	8.0	12.0	16.0	16.0			
	46.6	705	1.5	30.06	8.0	10.0	16.0	16.0			
	57.8	575	1.8	24.23	8.0	10.0	16.0	16.0			
	68.2	493	1.7	20.52	7.0	10.0	16.0	16.0			
	73.9	465	1.5	18.94	6.0	6.0	16.0	16.0			
	81.9	420	1.7	17.09	6.0	6.0	16.0	16.0			
	86.2	395	1.9	16.25	7.0	9.0	16.0	16.0			
	105.2	330	2.1	13.31	6.0	6.0	16.0	16.0			
	130.5	266	2.7	10.73	6.0	7.0	15.0	16.0			
	50.0	649	0.8	27.99	6.0	8.0	13.0	12.0	PSH 2080 112M4C / 112M4D	61	112-113
	55.9	581	0.8	25.04	6.0	9.0	13.0	12.0			
	65.0	505	0.9	21.53	5.0	7.0	13.0	12.0			
	73.4	448	1.0	19.08	5.0	7.0	13.0	12.0			
	87.7	388	1.0	15.97	4.0	3.0	13.0	9.0			
	100.1	340	1.1	13.99	4.0	4.0	13.0	10.0			
	111.8	307	1.1	12.52	4.0	4.0	12.0	10.0			
	130.1	264	1.3	10.76	5.0	4.0	12.0	10.0			
	146.8	234	1.5	9.54	5.0	5.0	12.0	10.0			
	185.4	187	1.6	7.55	4.0	5.0	11.0	10.0			
5.50	16.0	2626	0.8	56.25	16.0	21.0	27.0	28.0	PSH 2125 132M6B	142	128-129
	18.7	2274	0.9	48.10	16.0	21.0	27.0	28.0			
	22.0	1961	1.0	40.98	15.0	21.0	27.0	28.0			
	25.5	1772	0.9	35.31	15.0	20.0	27.0	28.0			
	28.3	1596	1.2	31.79	15.0	19.0	27.0	28.0			
	34.8	1311	1.4	25.83	14.0	19.0	27.0	28.0			
	40.7	1134	1.5	22.09	14.0	18.0	27.0	28.0			
	47.8	978	1.6	18.82	13.0	17.0	27.0	28.0			
	56.6	835	1.6	15.90	12.0	14.0	27.0	25.0			
	61.9	764	1.8	15.54	12.0	16.0	27.0	27.0			
	69.7	686	1.9	12.92	12.0	13.0	26.0	24.0			
	81.4	593	2.2	11.05	24.0	21.0	25.0	24.0			
	95.6	505	2.4	9.41	24.0	21.0	24.0	23.0			
	106.6	453	2.6	8.44	24.0	21.0	23.0	23.0			
	116.1	421	2.5	7.75	24.0	21.0	23.0	22.0			
	123.8	395	2.5	7.27	24.0	21.0	22.0	22.0			

P_1 [kW]	n_2 [Min^{-1}]	M_2 [Nm]	f_B	i_{ges}	F_R [N]	F_A [N]	$F_{R\,GR}$ [N]	$F_{A\,GR}$ [N]	Tip / Type / Typ IE2 / IE3	Kg	mm
5.50	13.9	2714	0.8	100.48	20.0	21.0	27.0	28.0	PSH 2125 132S4A / 132S4B	142	128-129
	16.0	2623	0.9	87.40	19.0	21.0	27.0	28.0			
	18.2	2336	1.0	76.88	16.0	21.0	27.0	28.0			
	20.2	2104	1.1	69.23	16.0	21.0	27.0	28.0			
	24.9	1752	1.2	56.25	16.0	21.0	27.0	28.0			
	29.1	1516	1.3	48.10	16.0	21.0	27.0	28.0			
	34.2	1307	1.4	40.98	15.0	21.0	27.0	28.0			
	39.6	1166	1.4	35.31	15.0	20.0	27.0	28.0			
	44.0	1050	1.8	31.79	15.0	19.0	27.0	28.0			
	54.2	862	2.0	25.83	14.0	19.0	27.0	28.0			
	63.4	746	2.2	22.09	14.0	18.0	27.0	28.0			
	74.4	635	2.4	18.82	13.0	17.0	27.0	28.0			
	88.1	549	2.3	15.90	12.0	14.0	27.0	25.0			
	96.3	496	2.7	14.54	12.0	16.0	27.0	27.0			
	108.4	446	2.8	12.92	12.0	13.0	26.0	24.0			
	37.1	1202	0.9	24.23	6.0	8.0	16.0	16.0	PSH 2100 132M6B	105	120-121
	43.9	1030	0.9	20.52	6.0	8.0	16.0	16.0			
	47.5	973	0.8	18.94	3.0	3.0	16.0	13.0			
	52.7	888	0.8	17.09	4.0	3.0	16.0	14.0			
	55.4	825	1.0	16.25	6.0	8.0	16.0	16.0			
	67.6	691	1.1	13.31	5.0	4.0	15.0	14.0			
	83.9	564	1.4	10.73	6.0	5.0	15.0	14.0			
	99.0	483	1.6	9.09	5.0	5.0	14.0	14.0			
	125.0	382	1.9	7.20	5.0	5.0	14.0	14.0			
	40.8	1068	1.0	34.29	8.0	12.0	16.0	16.0	PSH 2100 132S4A / 132S4B	105	120-121
	46.6	970	1.1	30.06	6.0	7.0	16.0	16.0			
	57.8	791	1.3	24.23	6.0	8.0	16.0	16.0			
	68.2	677	1.2	20.52	6.0	8.0	16.0	16.0			
	73.9	640	1.1	18.94	3.0	3.0	16.0	13.0			
	81.9	557	1.2	17.09	4.0	3.0	16.0	14.0			
	86.2	543	1.4	16.25	6.0	8.0	16.0	16.0			
	105.2	454	1.6	13.31	5.0	4.0	15.0	14.0			
	130.5	366	2.0	10.73	6.0	5.0	15.0	14.0			
	154.0	314	2.3	9.09	5.0	5.0	14.0	14.0			
	194.4	249	2.7	7.20	5.0	5.0	14.0	14.0			
7.50	28.3	2176	0.9	31.79	13.0	16.0	27.0	28.0	PSH 2125 160M6B / 160M6C	178	128-129
	34.8	1788	1.0	25.83	13.0	16.0	27.0	28.0			
	40.7	1547	1.1	22.09	13.0	16.0	27.0	27.0			
	47.8	1333	1.2	18.82	12.0	15.0	27.0	27.0			
	56.6	1139	1.1	15.90	11.0	11.0	26.0	23.0			
	61.9	1041	1.4	14.54	12.0	15.0	26.0	26.0			
	69.7	936	1.4	12.92	11.0	11.0	25.0	22.0			
	81.4	809	1.6	11.05	10.0	11.0	24.0	22.0			
	95.6	689	1.7	9.41	10.0	11.0	23.0	22.0			
	106.6	618	1.9	8.44	10.0	11.0	23.0	21.0			
	116.1	574	1.8	7.75	10.0	11.0	22.0	21.0			
	123.8	538	1.8	7.27	10.0	11.0	22.0	21.0			
	20.2	2869	0.8	69.23	16.0	21.0	27.0	28.0	PSH 2125 132M4C / 132M4D	142	128-129
	24.9	2389	0.9	56.25	16.0	21.0	27.0	28.0			
	29.1	2067	0.9	48.10	14.0	21.0	27.0	28.0			
	34.2	1782	1.0	40.98	14.0	20.0	27.0	28.0			
	39.6	1590	1.0	35.31	13.0	16.0	27.0	28.0			
	44.0	1431	1.3	31.79	13.0	16.0	27.0	28.0			
	54.2	1176	1.5	25.83	13.0	16.0	27.0	28.0			
	63.4	1017	1.6	22.09	13.0	16.0	27.0	27.0			
	74.4	867	1.7	18.82	12.0	15.0	27.0	27.0			
	88.1	748	1.7	15.90	11.0	11.0	26.0	23.0			
	96.3	677	2.0	14.54	12.0	15.0	26.0	26.0			
	108.4	608	2.0	12.92	11.0	11.0	25.0	22.0			
	126.7	526	2.4	11.05	10.0	11.0	24.0	22.0			
	148.8	448	2.5	9.41	10.0	11.0	23.0	22.0			
	165.9	402	2.8	8.44	10.0	11.0	23.0	21.0			
	180.6	369	2.7	7.75	10.0	11.0	22.0	21.0			
	192.6	346	2.7	7.27	10.0	11.0	22.0	21.0			

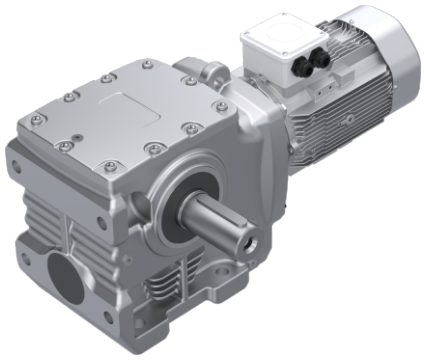
P_1 [kW]	n_2 [Min^{-1}]	M_2 [Nm]	f_B	i_{ges}	F_R [N]	F_A [N]	$F_{R\,GR}$ [N]	$F_{A\,GR}$ [N]	Tip / Type / Typ IE2 / IE3	Kg	mm
7.50	46.6	1323	0.8	30.06	6.0	7.0	16.0	16.0	**PSH 2100 132M4C / 132M4D**	105	120-121
	57.8	1078	0.9	24.23	6.0	8.0	16.0	16.0			
	68.2	924	0.9	20.52	-	-	16.0	16.0			
	73.9	872	0.8	18.94	3.0	3.0	16.0	16.0			
	81.9	787	0.9	17.09	4.0	3.0	16.0	16.0			
	86.2	740	1.0	16.25	5.0	6.0	16.0	16.0			
	105.2	620	1.1	13.31	2.0	2.0	14.0	11.0			
	130.5	500	1.5	10.73	3.0	3.0	14.0	12.0			
	154.0	428	1.7	9.09	4.0	3.0	14.0	12.0			
	194.4	339	2.0	7.20	5.0	4.0	13.0	12.0			
9.20	34.8	2194	0.8	25.83	12.0	14.0	27.0	26.0	**PSH 2125 160M6**	178	128-129
	40.7	1898	0.9	22.09	12.0	14.0	27.0	26.0			
	47.8	1635	1.0	18.82	12.0	14.0	27.0	25.0			
	56.6	1397	0.9	15.90	10.0	9.0	25.0	20.0			
	61.9	1277	1.1	14.54	11.0	13.0	26.0	25.0			
	69.7	1148	1.1	12.92	10.0	9.0	24.0	21.0			
	81.4	992	1.3	11.05	10.0	10.0	24.0	21.0			
	95.6	845	1.4	9.41	10.0	10.0	23.0	20.0			
	106.6	758	1.6	8.44	10.0	10.0	22.0	20.0			
	116.1	704	1.5	7.75	9.0	10.0	22.0	20.0			
	123.8	660	1.5	7.27	9.0	10.0	21.0	20.0			
	29.1	2536	0.8	48.10	-	-	27.0	28.0	**PSH 2125 132M4**	142	128-129
	34.2	2186	0.8	40.98	-	-	27.0	28.0			
	39.6	1950	0.8	35.31	-	-	27.0	28.0			
	44.0	1756	1.0	31.79	12.0	13.0	27.0	28.0			
	54.2	1443	1.2	25.83	12.0	14.0	27.0	26.0			
	63.4	1248	1.3	22.09	12.0	14.0	27.0	26.0			
	74.4	1063	1.4	18.82	12.0	14.0	27.0	25.0			
	88.1	918	1.4	15.90	10.0	9.0	25.0	20.0			
	96.3	830	1.6	14.54	11.0	13.0	26.0	25.0			
	108.4	746	1.7	12.92	10.0	9.0	24.0	21.0			
	126.7	645	1.9	11.05	10.0	10.0	24.0	21.0			
	148.8	549	2.1	9.41	10.0	10.0	23.0	20.0			
	165.9	493	2.3	8.44	10.0	10.0	22.0	20.0			
	180.6	452	2.2	7.75	9.0	10.0	22.0	20.0			
	192.6	424	2.2	7.27	9.0	10.0	21.0	20.0			
	57.8	1323	0.8	24.23	-	-	16.0	16.0	**PSH 2100 132M4**	105	120-121
	86.2	908	0.8	16.25	-	-	16.0	16.0			
	105.2	760	0.9	13.31	-	-	15.0	14.0			
	130.5	613	1.2	10.73	-	-	15.0	14.0			
	154.0	525	1.4	9.09	-	-	14.0	14.0			
	194.4	416	1.6	7.20	-	-	14.0	14.0			
11.0	47.8	1955	0.8	18.82	11.0	12.0	27.0	24.0	**PSH 2125 160L6B / 160L6D**	178	128-129
	56.6	1670	0.8	15.90	8.0	6.0	24.0	18.0			
	61.9	1527	0.9	14.54	10.0	12.0	25.0	24.0			
	69.7	1372	0.9	12.92	9.0	7.0	24.0	19.0			
	81.4	1187	1.1	11.05	9.0	8.0	23.0	19.0			
	95.6	1010	1.2	9.41	9.0	8.0	22.0	19.0			
	106.6	906	1.3	8.44	9.0	8.0	22.0	19.0			
	116.1	841	1.3	7.75	9.0	8.0	21.0	19.0			
	123.8	789	1.3	7.27	9.0	9.0	21.0	19.0			
	44.0	2099	0.9	31.79	12.0	13.0	27.0	26.0	**PSH 2125 160M4C**	178	128-129
	54.2	1725	1.0	25.83	11.0	11.0	27.0	24.0			
	63.4	1492	1.1	22.09	11.0	12.0	27.0	24.0			
	74.4	1271	1.2	18.82	11.0	12.0	27.0	24.0			
	88.1	1098	1.1	15.90	8.0	6.0	24.0	18.0			
	96.3	993	1.3	14.54	10.0	12.0	25.0	24.0			
	108.4	892	1.4	12.92	9.0	7.0	24.0	19.0			
	126.7	771	1.6	11.05	9.0	8.0	23.0	19.0			
	148.8	657	1.7	9.41	9.0	8.0	22.0	19.0			
	165.9	589	1.9	8.44	9.0	8.0	22.0	19.0			
	180.6	541	1.9	7.75	9.0	8.0	21.0	19.0			
	192.6	507	1.9	7.27	9.0	9.0	21.0	19.0			

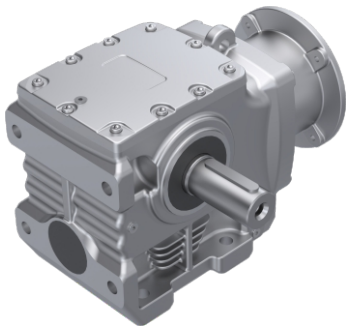
P_1 [kW]	n_2 [Min^{-1}]	M_2 [Nm]	f_B	i_{ges}	F_R [N]	F_A [N]	$F_{R\ GR}$ [N]	$F_{A\ GR}$ [N]	Tip / Type / Typ IE2 / IE3	Kg	mm
15.0	63.4	2034	0.8	22.09	11.0	12.0	27.0	24.0	PSH 2125 160L4B	178	128-129
	74.4	1733	0.9	18.82	11.0	12.0	27.0	24.0			
	88.1	1497	0.8	15.90	8.0	6.0	24.0	18.0			
	96.3	1354	1.0	14.54	9.0	9.0	24.0	21.0			
	108.4	1216	1.0	12.92	4.0	3.0	22.0	15.0			
	126.7	1052	1.2	11.05	5.0	4.0	22.0	16.0			
	148.8	895	1.3	9.41	6.0	5.0	21.0	16.0			
	165.9	803	1.4	8.44	7.0	6.0	21.0	16.0			
	180.6	737	1.4	7.75	7.0	6.0	20.0	17.0			
	192.6	692	1.4	7.27	8.0	6.0	20.0	17.0			

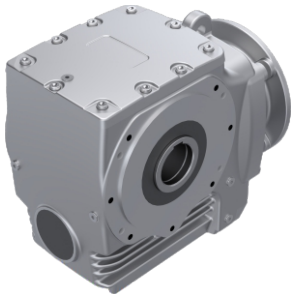
Ölçü Tabloları

Dimension Tables

Maßtabelles

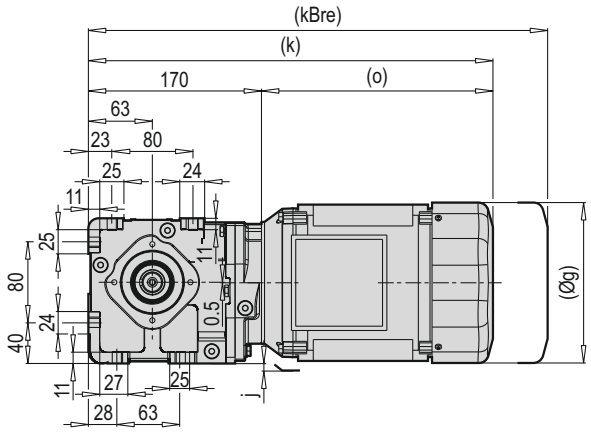






PSH

PSH 2040 TMA



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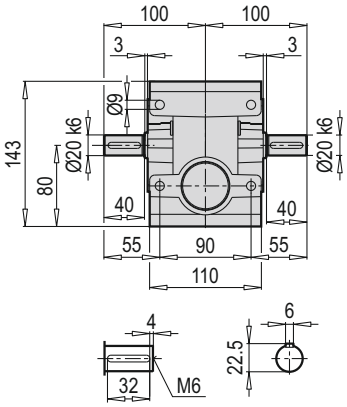

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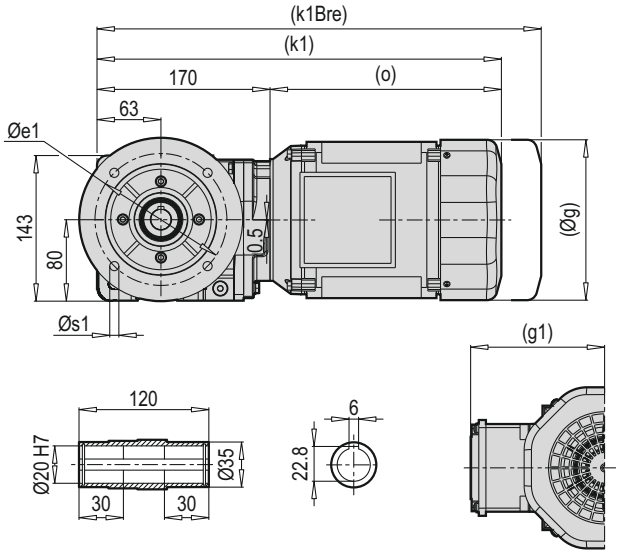

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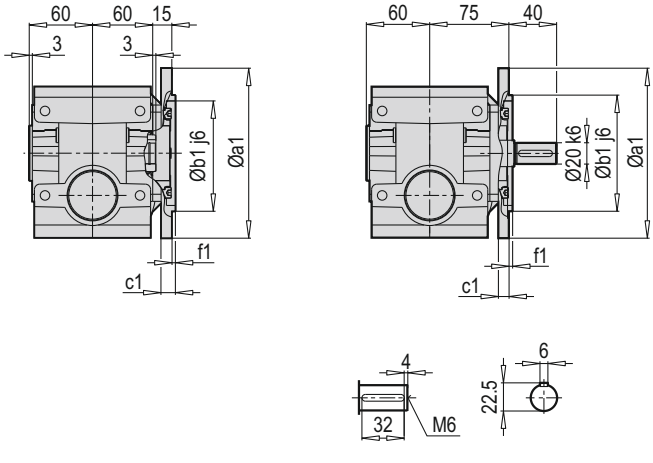
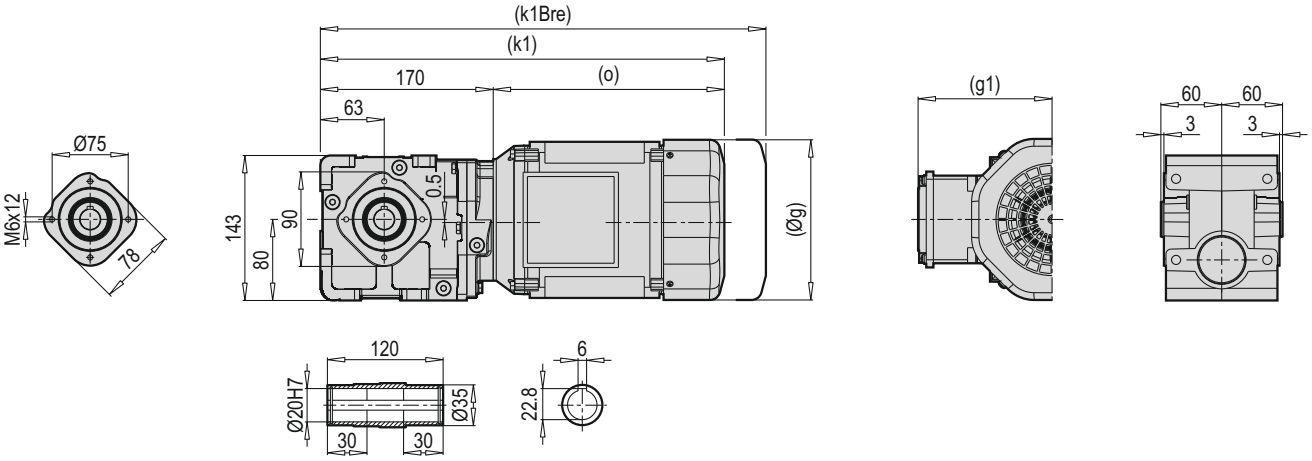


a1	b1	c1	e1	f1	s1
120	80	10	100	3	6.6
160	110	10	130	3.5	9

	80 M	90 L					
g	172	182					
g1	130.5	130					
k/k1	422.5	488					
kBre/k1Bre	492.5	556					
o	252.5	318					
j	3	10					

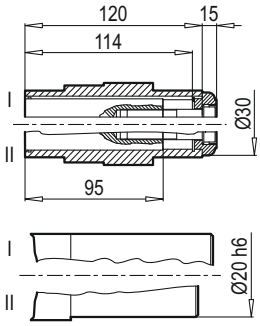
Not: (...) İşaretli olan ölçüler motor markasına göre farklılık gösterir. / Note : The dimensions which have (...) sign vary depending on the motor.

PSH 2040 DG/B14



PSH 2040 DG/Ç

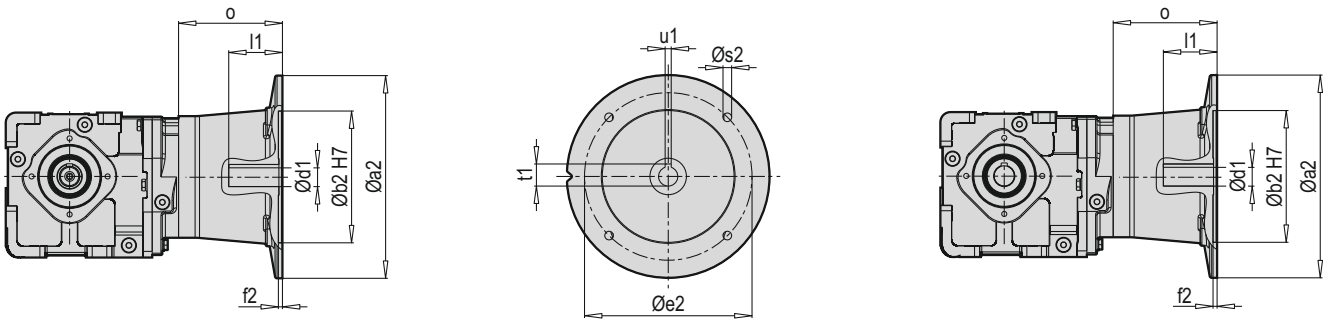
50 - 51



	80 M	90 L					
g	172	182					
g1	130.5	130					
k1	422.5	488					
k1Bre	492.5	556					
o	252.5	318					

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

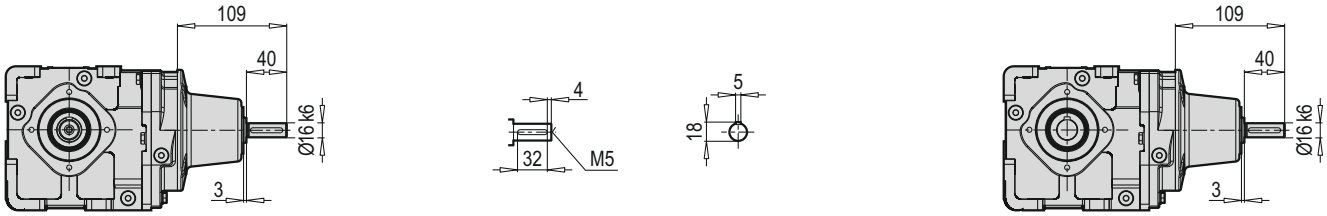
PSH 2040 IEC



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

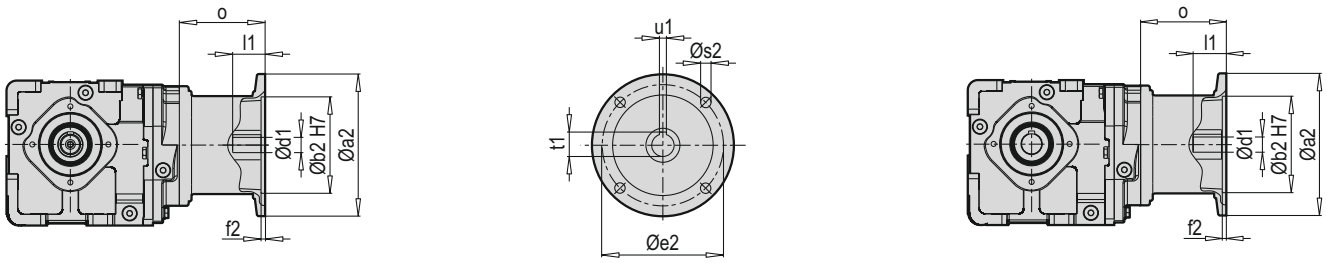
~ Kg	
IEC	PSH 2040
63	10
71	11
80	13
90	13

PSH 2040 W



W ~ Kg	
PSH 2040	9

PSH 2040 PAM B5/B14



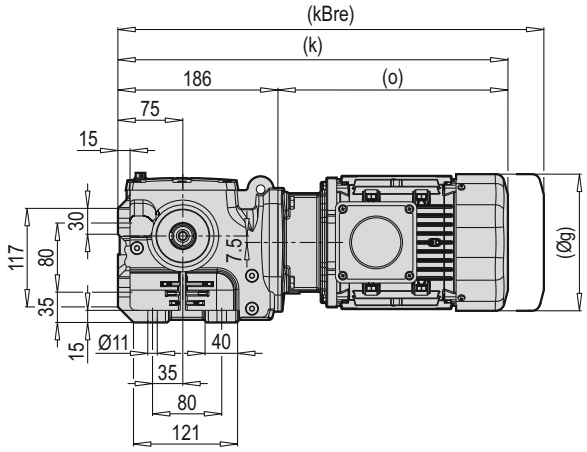
Tip / Type / Typ	PAM B5	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PSH 2040	63	140	95	115	3.5	M8	11	23	12.8	4	85
	71	160	110	130	4.0	M8	14	30	16.3	5	85
	80	200	130	165	4.0	M10	19	40	21.8	6	103
	90	200	130	165	4.0	M10	24	50	27.3	8	103

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

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

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

PSH 2050 TMA



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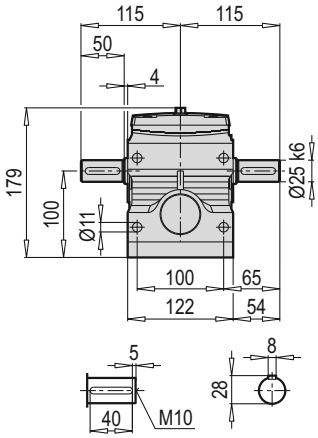

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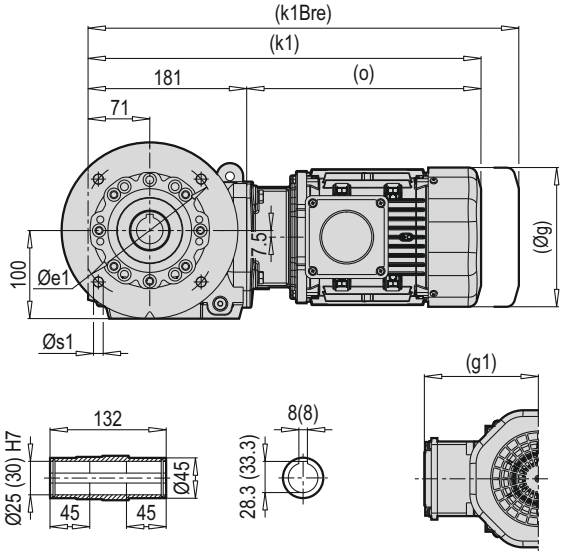
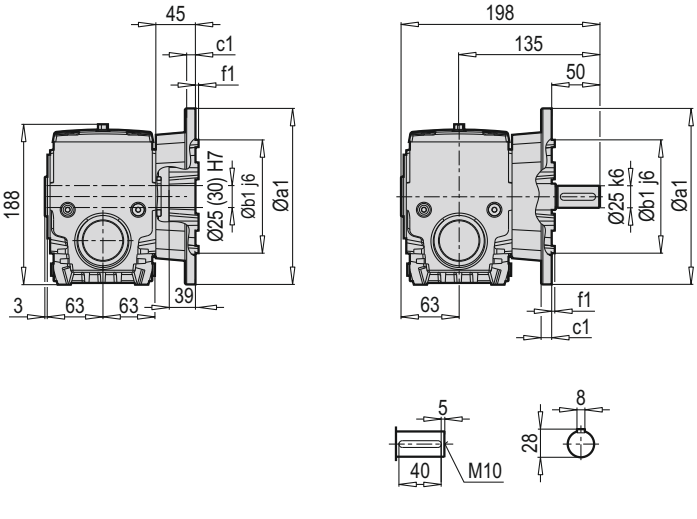


PSH 2050 TMG/B5



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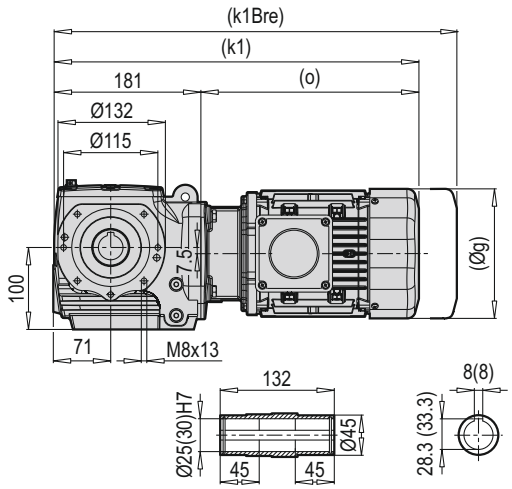
200	130	12	165	3.5	4 x 11

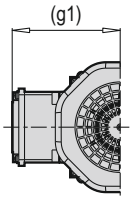
a1	b1	c1	e1	f1	s1
160	110	10	130	3.5	4 x 9

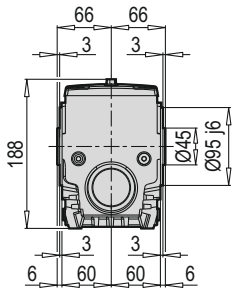
	80 M	90 L					
g	172	182					
g1	130.5	130					
k/k1	452 / 447	517.5 / 512.5					
kBre/k1Bre	522 / 517	526 / 521					
o	266	331.5					

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

PSH 2050 DG/B14

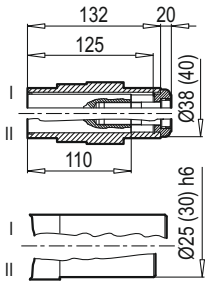






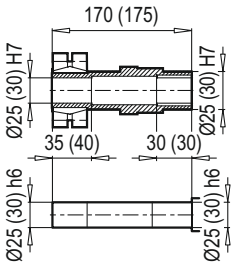
PSH 2050 DG/Ç

50 - 51



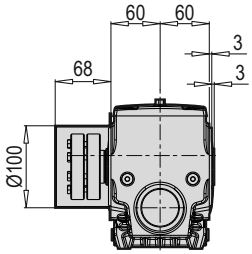
PSH 2050 DG/KS

44



PSH 2050 DG/KS/KK

47

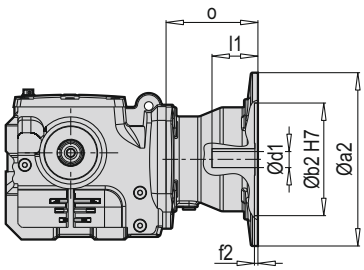


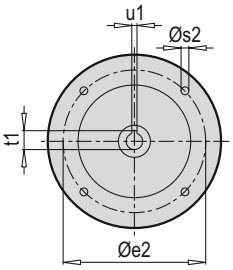
Konik sıktırma / Shrink disc / Schrumpfscheibe				Altıköşe başlı cıvata / Hexagonal screw / Sechskantschraube DIN 931 / DIN 933* 10.9Vz		
Tip / Type / Typ	Mamax (Nm)	s^{h6}	s^{f6}	dxl	Zs	MA (Nm)
KS 25/35	182	2.8	2.3	M5x25	8	7
KS 30/40	182	5.4	4.7	M6x35*	8	12

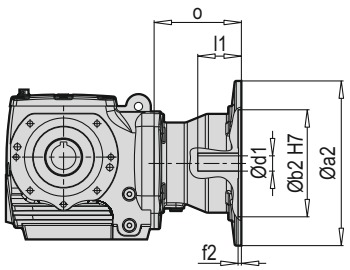
	80 M	90 L					
g	172	182					
g1	130.5	130					
k1	447	512.5					
k1Bre	517	521					
o	266	331.5					

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

PSH 2050 IEC



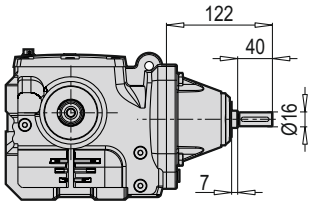


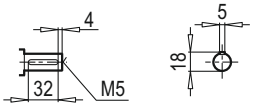


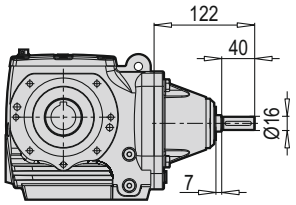
Tip / Type / Typ	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PSH 2050	63	140	95	115	3.5	M8	11	23	12.8	4	85
	71	160	110	130	4.0	M8	14	30	16.3	5	89
	80	200	130	165	4.0	M10	19	40	21.8	6	105
	90	200	130	165	4.0	M10	24	50	27.3	8	105

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

PSH 2050 W

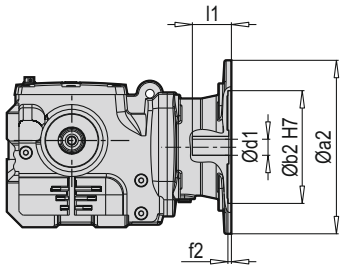


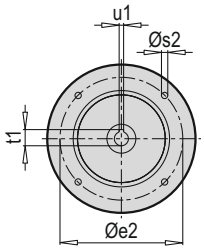


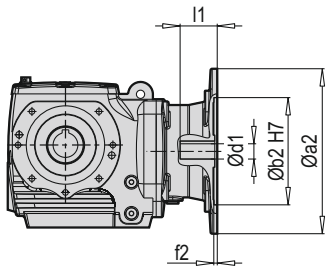


W ~ Kg	
PSH 2050	18

PSH 2050 PAM B5/B14







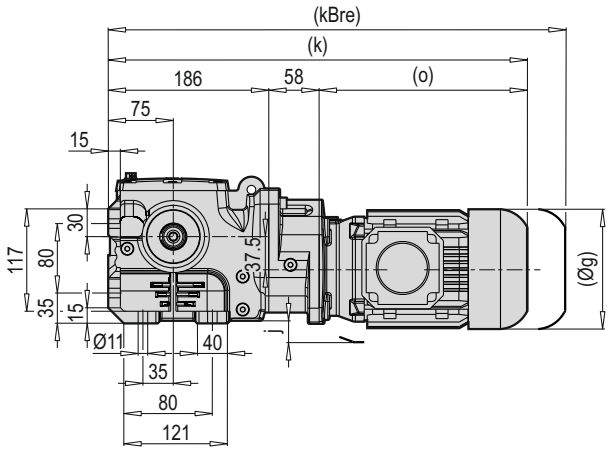
Tip / Type / Typ	PAM B5	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PSH 2050	63	140	95	115	3.5	M8	11	23	12.8	4	85
	71	160	110	130	4.0	M8	14	30	16.3	5	55
	80	200	130	165	4.0	M10	19	40	21.8	6	74
	90	200	130	165	4.0	M10	24	50	27.3	8	74

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

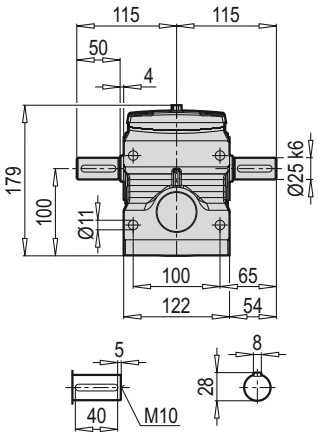
Tip / Type / Typ	PAM B14	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PSH 2050	63	90	60	75	4.0	6	11	23	12.8	4	60
	71	105	70	85	4.0	7	14	30	16.3	5	55
	80	120	80	100	4.0	7	19	40	21.8	6	74
	90	140	95	115	4.0	9	24	50	27.3	8	75

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

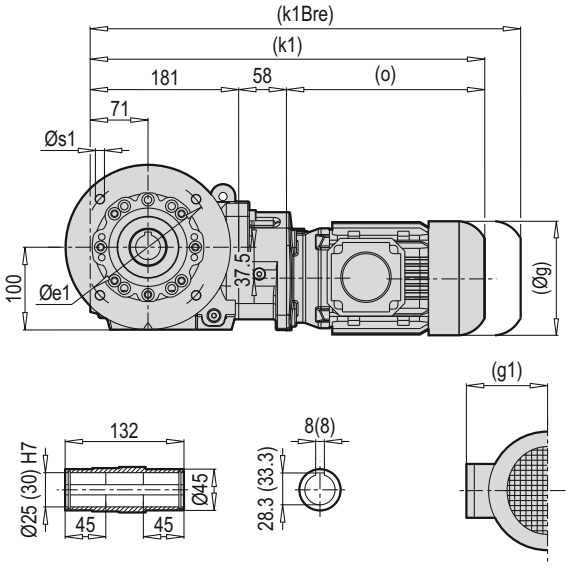
PSH 3050 TMA



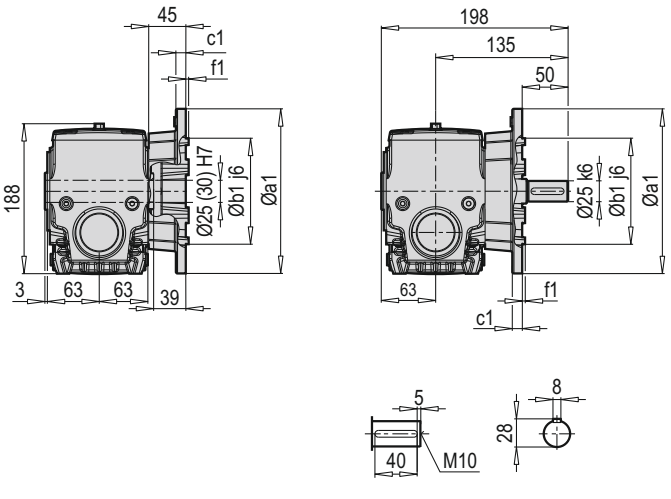
PSH 3050 ÇMA



PSH 3050 DG/B5



PSH 3050 TMG/B5



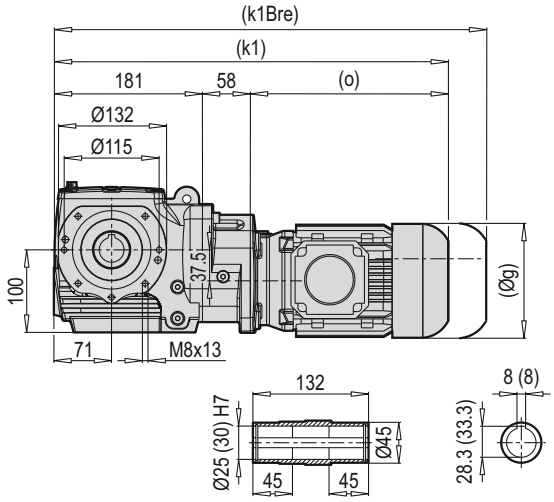
a1	b1	c1	e1	f1	s1
200	130	12	165	3.5	4 x 11

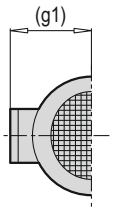
a1	b1	c1	e1	f1	s1
160	110	10	130	3.5	4 x 9

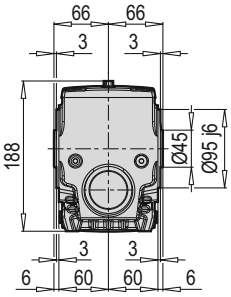
	63 M	71 M					
g	124	140					
g1	111	119					
k/k1	442 / 437	484 / 479					
kBre/k1Bre	494 / 489	544 / 539					
o	198	240					
j	2.5	10					

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

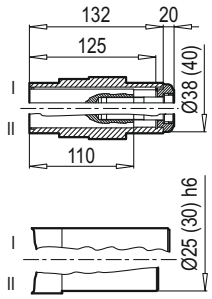
PSH 3050 DG/B14



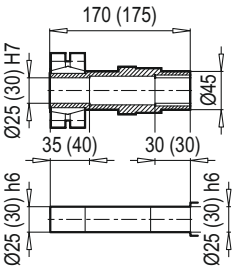




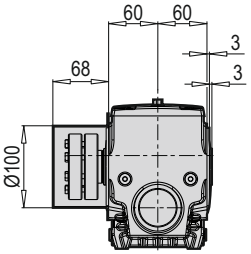
PSH 3050 DG/Ç 50 - 51



PSH 3050 DG/KS 44



PSH 3050 DG/KS/KK 47

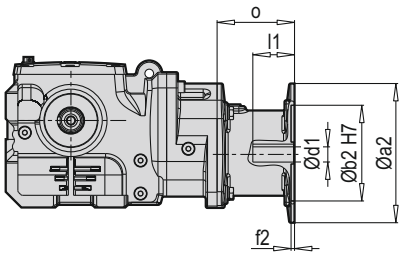


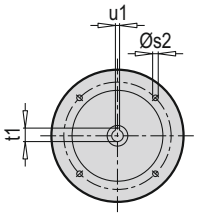
Konik sıktırma / Shrink disc / Schrumpfscheibe				Altıköşe başlı cıvata / Hexagonal screw / Sechskantschraube DIN 931 / DIN 933* 10.9Vz		
Tip / Type / Typ	Mamax (Nm)	s^{h6}	s^{f6}	dxl	Zs	MA (Nm)
KS 25/35	182	2.8	2.3	M5x25	8	7
KS 30/40	182	5.4	4.7	M6x35*	8	12

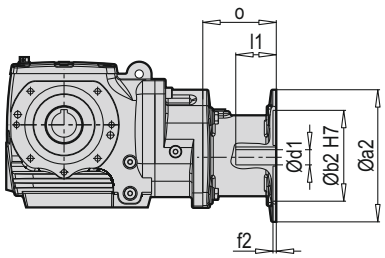
	63 M	71 M					
g	124	140					
g1	111	119					
k1	437	479					
k1Bre	489	539					
o	198	240					

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

PSH 3050 IEC



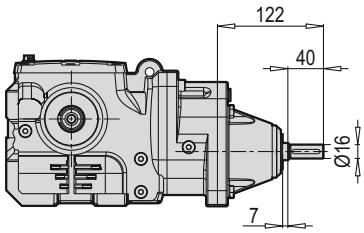


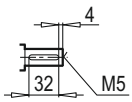


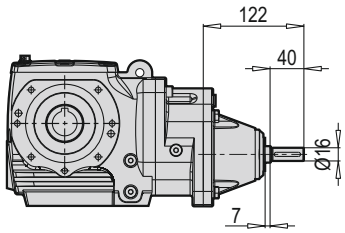
Tip / Type / Typ	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PSH 3050	63	140	95	115	3.5	M8	11	23	12.8	4	85
	71	160	110	130	4.0	M8	14	30	16.3	5	89

~ Kg	
IEC	PSH 3050
63	24
71	25

PSH 3050 W

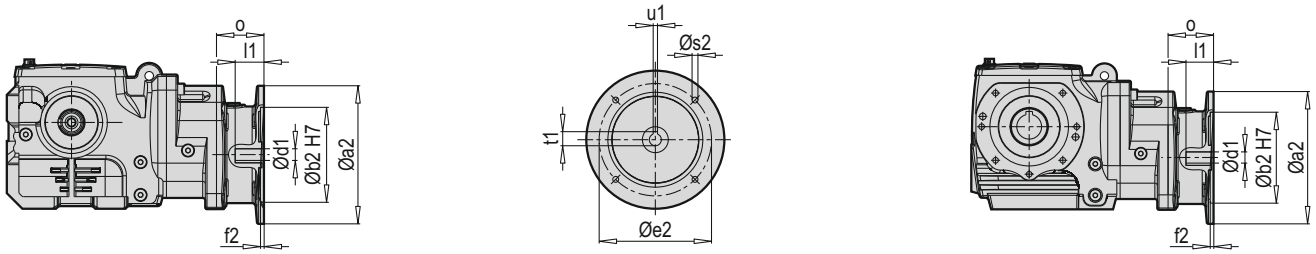






W ~ Kg	
PSH 3050	23

PSH 3050 PAM B5/B14



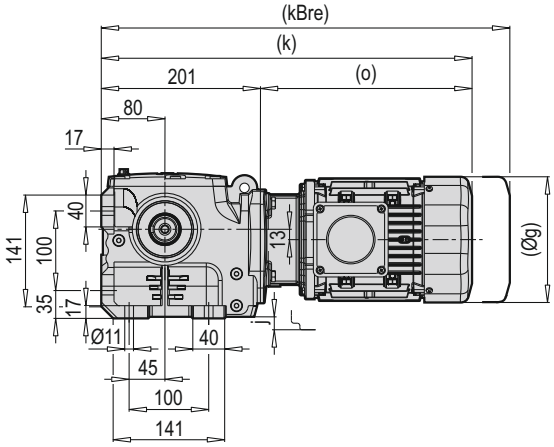
Tip / Type / Typ	PAM B5	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PSH 3050	63	140	95	115	3.5	M8	11	23	12.8	4	85
	71	160	110	130	4.0	M8	14	30	16.3	5	55

~ kg	
PAM B5	PSH 3050
63	21
71	21

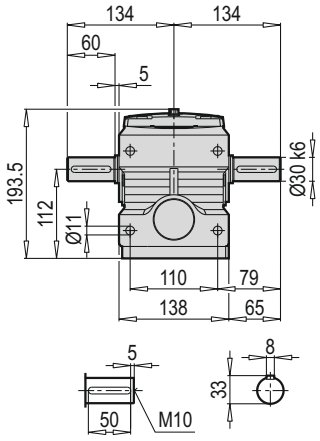
Tip / Type / Typ	PAM B14	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PSH 3050	63	90	60	75	4.0	6	11	23	12.8	4	60
	71	105	70	85	4.0	7	14	30	16.3	5	55

~ kg	
PAM B14	PSH 3050
63	20
71	20

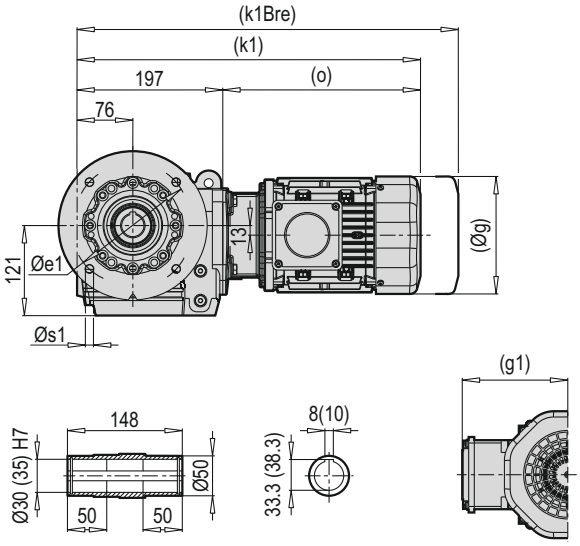
PSH 2063 TMA



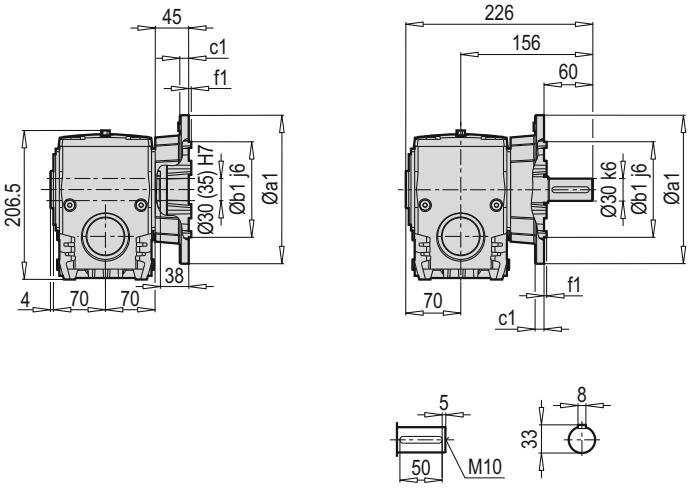
PSH 2063 ÇMA



PSH 2063 DG/B5



PSH 2063 TMG/B5



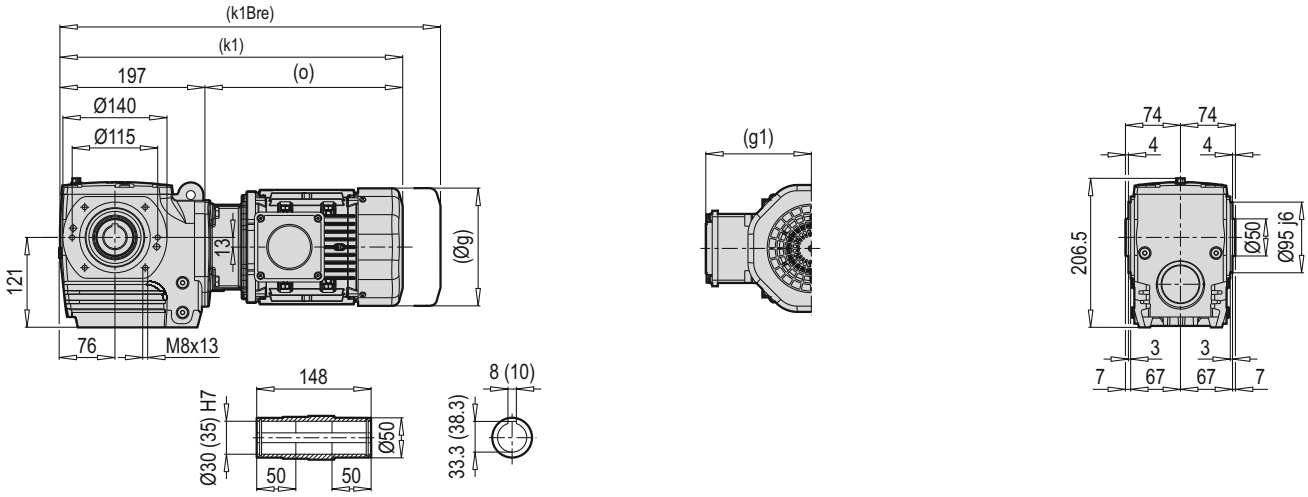
a1	b1	c1	e1	f1	s1
200	130	12	165	3.5	4 x 11

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

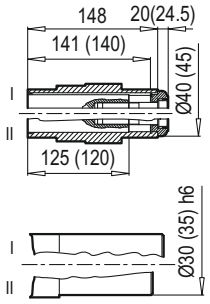
	80 M	90 L	100L				
g	172	182	202				
g1	130.5	130	153				
k/k1	467 / 463	532.5 / 528.5	584 / 580				
kBre/k1Bre	537 / 533	541 / 537	667.5 / 663.5				
o	266	331.5	383				
j	–	–	–				

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

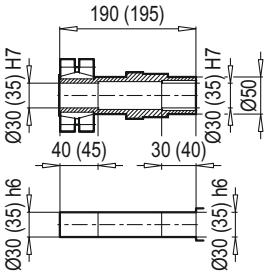
PSH 2063 DG/B14



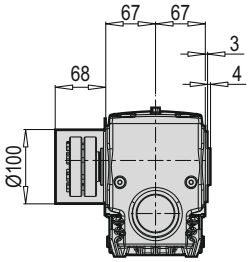
PSH 2063 DG/Ç 50 - 51



PSH 2063 DG/KS 44



PSH 2063 DG/KS/KK 47

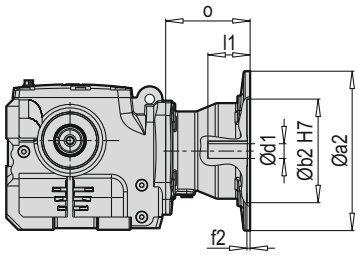


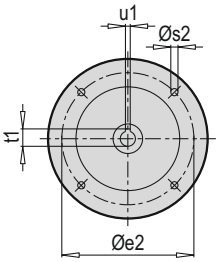
Tip / Type / Typ	Konik sıktırma / Shrink disc / Schrumpfscheibe Mamax (Nm)	sh6	sf6	Altıköşe başlı cıvata / Hexagonal screw / Sechskantschraube DIN 931 / DIN 933* 10.9Vz dxl	Zs	MA (Nm)
KS 30/40	383	2.6	2.2	M6x35*	8	12
KS 35/46	383	3.0	3.2	M6x35*	10	12

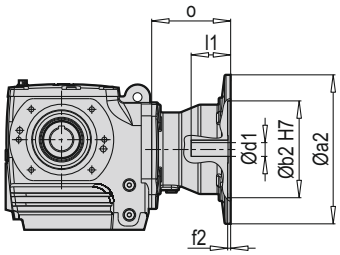
	80 M	90 L	100L				
g	172	182	202				
g1	130.5	130	153				
k1	463	528.5	580				
k1Bre	533	537	663.5				
o	266	331.5	383				

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

PSH 2063 IEC



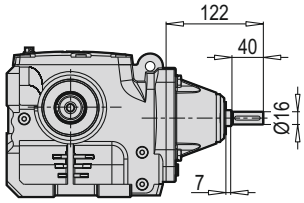


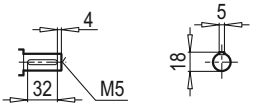


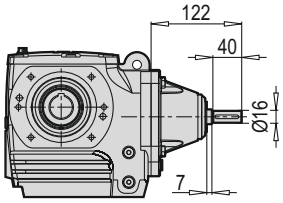
Tip / Type / Typ	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PSH 2063	63	140	95	115	3.5	M8	11	23	12.8	4	85
	71	160	110	130	4.0	M8	14	30	16.3	5	89
	80	200	130	165	4.0	M10	19	40	21.8	6	105
	90	200	130	165	4.0	M10	24	50	27.3	8	105
	100	250	180	215	5.0	M12	28	60	31.3	8	130

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

PSH 2063 W

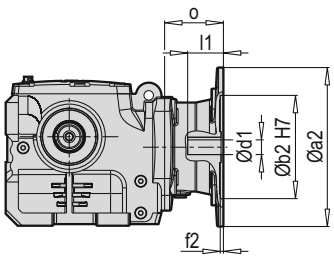


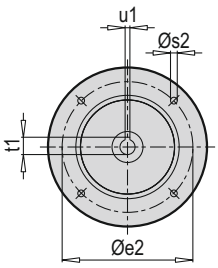


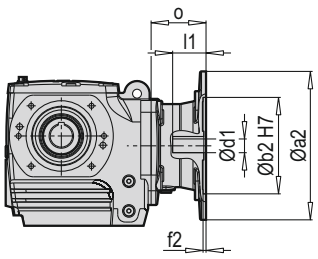


W ~ Kg	
PSH 2063	22

PSH 2063 PAM B5/B14







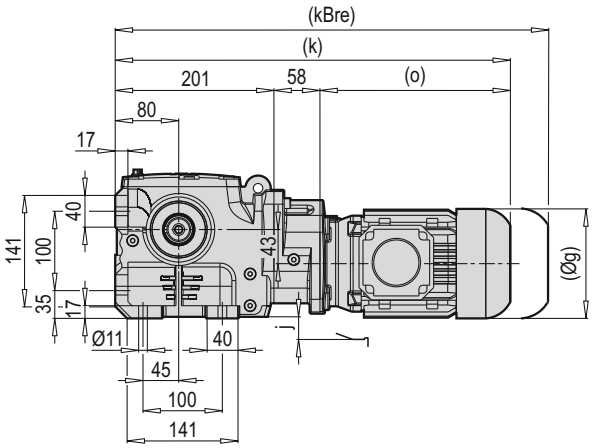
Tip / Type / Typ	PAM B5	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PSH 2063	63	140	95	115	3.5	M8	11	23	12.8	4	85
	71	160	110	130	4.0	M8	14	30	16.3	5	55
	80	200	130	165	4.0	M10	19	40	21.8	6	74
	90	200	130	165	4.0	M10	24	50	27.3	8	74
	100	250	180	215	5.0	M12	28	60	31.3	8	131.5

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

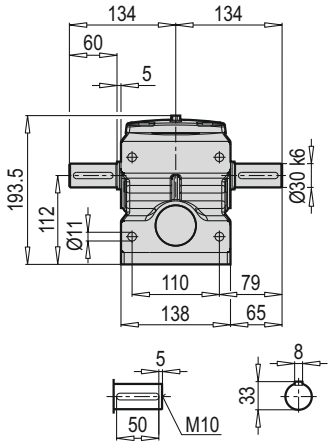
Tip / Type / Typ	PAM B14	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PSH 2063	63	90	60	75	4.0	6	11	23	12.8	4	60
	71	105	70	85	4.0	7	14	30	16.3	5	55
	80	120	80	100	4.0	7	19	40	21.8	6	74
	90	140	95	115	4.0	9	24	50	27.3	8	74
	100	160	110	130	5.0	9	28	60	31.3	8	75

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

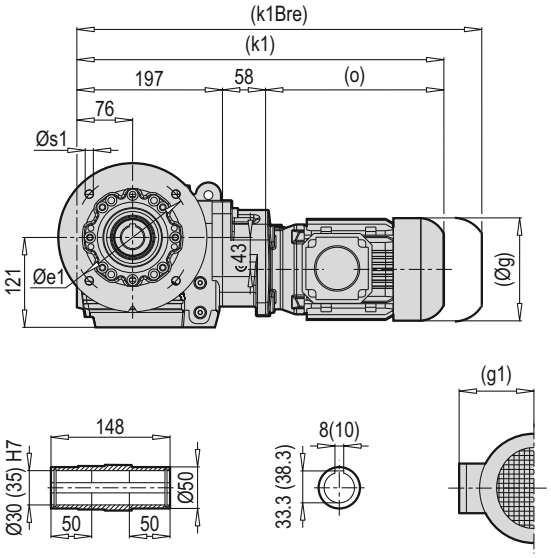
PSH 3063 TMA



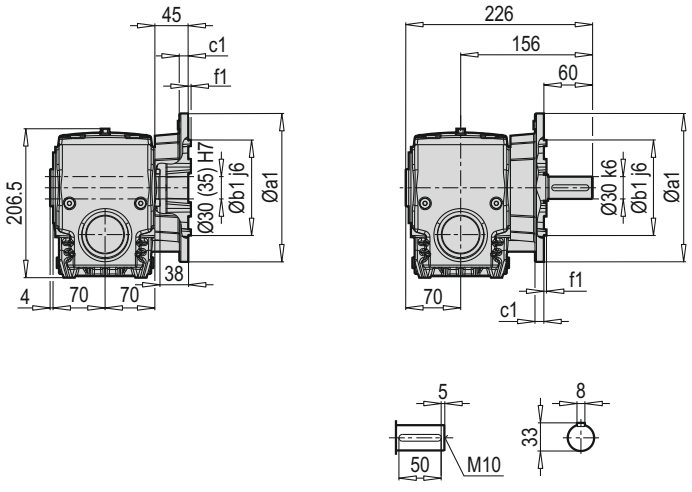
PSH 3063 ÇMA



PSH 3063 DG/B5



PSH 3063 TMG/B5



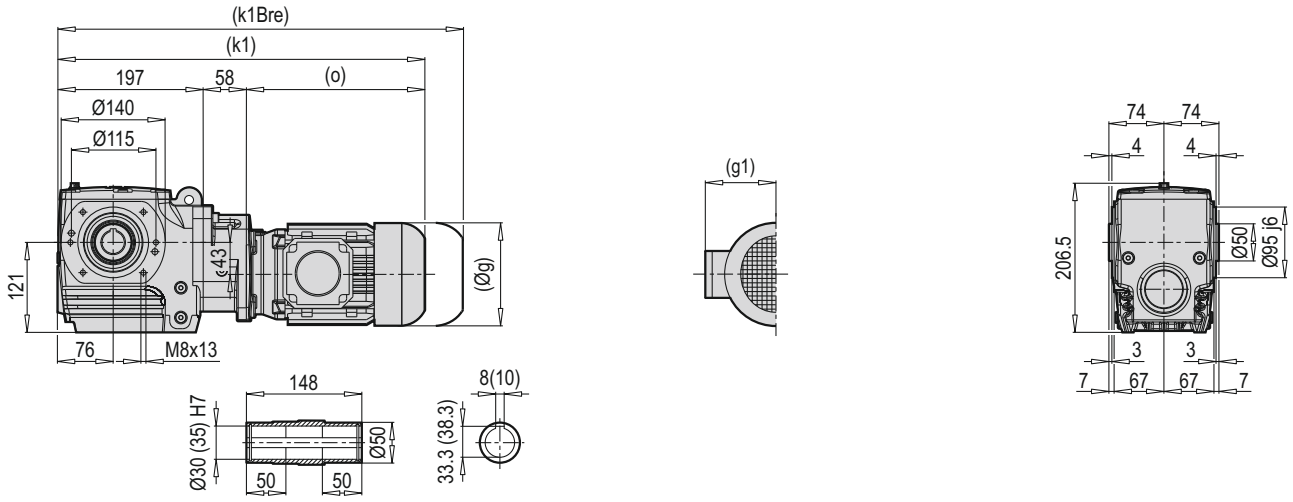
a1	b1	c1	e1	f1	s1
200	130	12	165	3.5	4 x 11

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

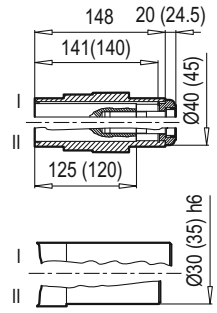
	63 M	71 M					
g	124	140					
g1	111	119					
k/k1	457 / 453	499 / 495					
kBre/k1Bre	509 / 505	559 / 555					
o	198	240					
j	–	3.5					

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

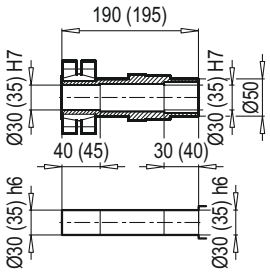
PSH 3063 DG/B14



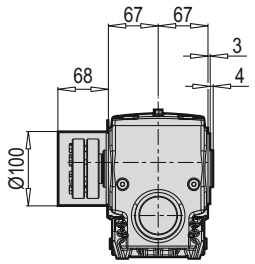
PSH 3063 DG/Ç 50 - 51



PSH 3063 DG/KS 44



PSH 3063 DG/KS/KK 47

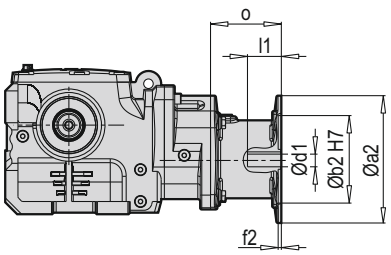


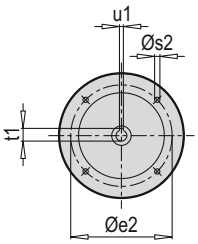
Konik sıktırma / Shrink disc / Schrumpfscheibe				Altıköşe başlı cıvata / Hexagonal screw / Sechskantschraube DIN 931 / DIN 933* 10.9Vz		
Tip / Type / Typ	Mamax (Nm)	s^{h6}	s^{f6}	dxl	Zs	MA (Nm)
KS 30/40	383	2.6	2.2	M6x35*	8	12
KS 35/46	383	3.0	3.2	M6x35*	10	12

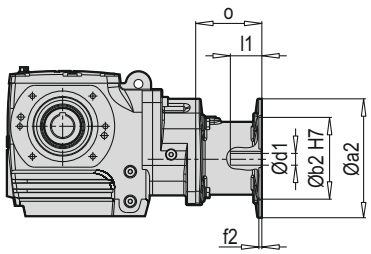
	63 M	71 M					
g	124	140					
g1	111	119					
k1	453	495					
k1Bre	505	555					
o	198	240					

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

PSH 3063 IEC



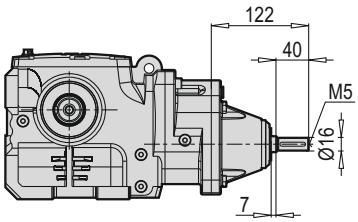


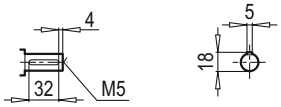


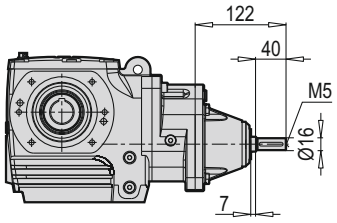
Tip / Type / Typ	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PSH 3063	63	140	95	115	3.5	M8	11	23	12.8	4	85
	71	160	110	130	4.0	M8	14	30	16.3	5	89

~ Kg	
IEC	PSH 3063
63	28
71	29

PSH 3063 W

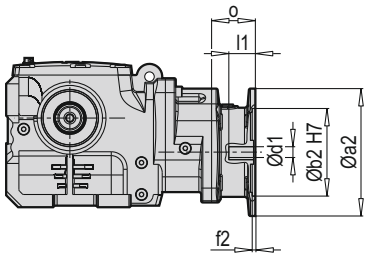


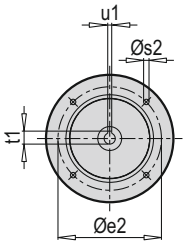


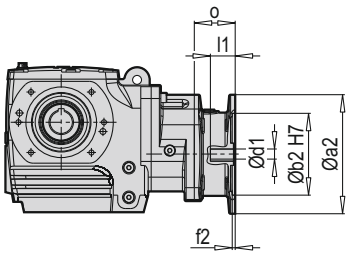


W ~ Kg	
PSH 3063	27

PSH 3063 PAM B5/B14







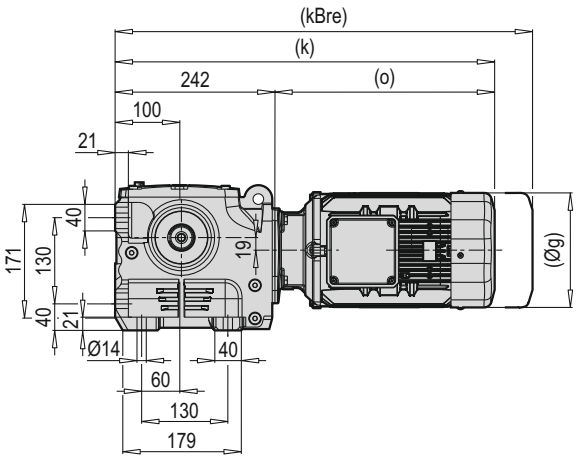
Tip / Type / Typ	PAM B5	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PSH 3063	63	140	95	115	3.5	M8	11	23	12.8	4	85
	71	160	110	130	4.0	M8	14	30	16.3	5	55

~ Kg	
PAM B5	PSH 3063
63	25
71	25

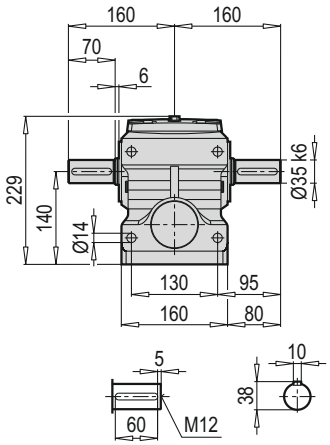
Tip / Type / Typ	PAM B14	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PSH 3063	63	90	60	75	4.0	6	11	23	12.8	4	85
	71	105	70	85	4.0	7	14	30	16.3	5	55

~ Kg	
PAM B14	PSH 3063
63	24
71	24

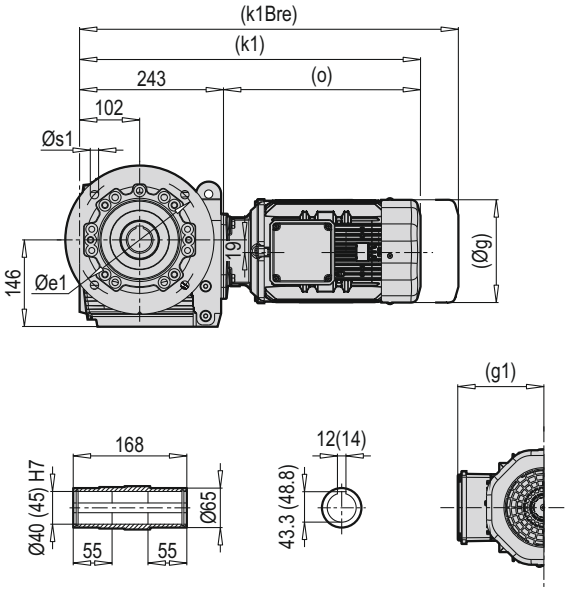
PSH 2080 TMA



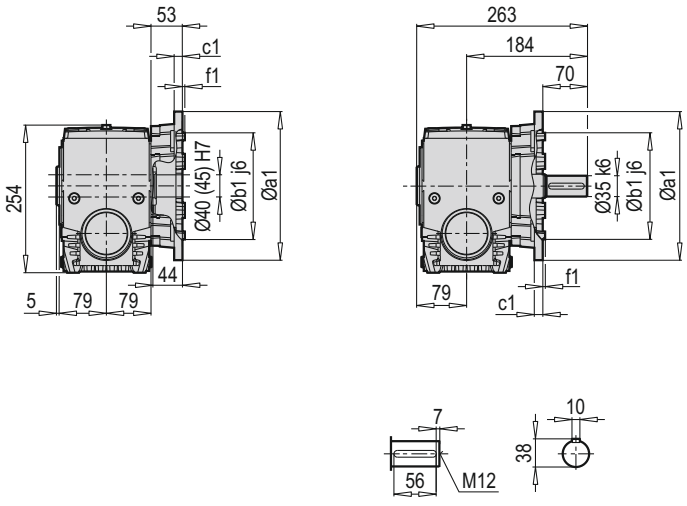
PSH 2080 ÇMA



PSH 2080 DG/B5



PSH 2080 TMG/B5



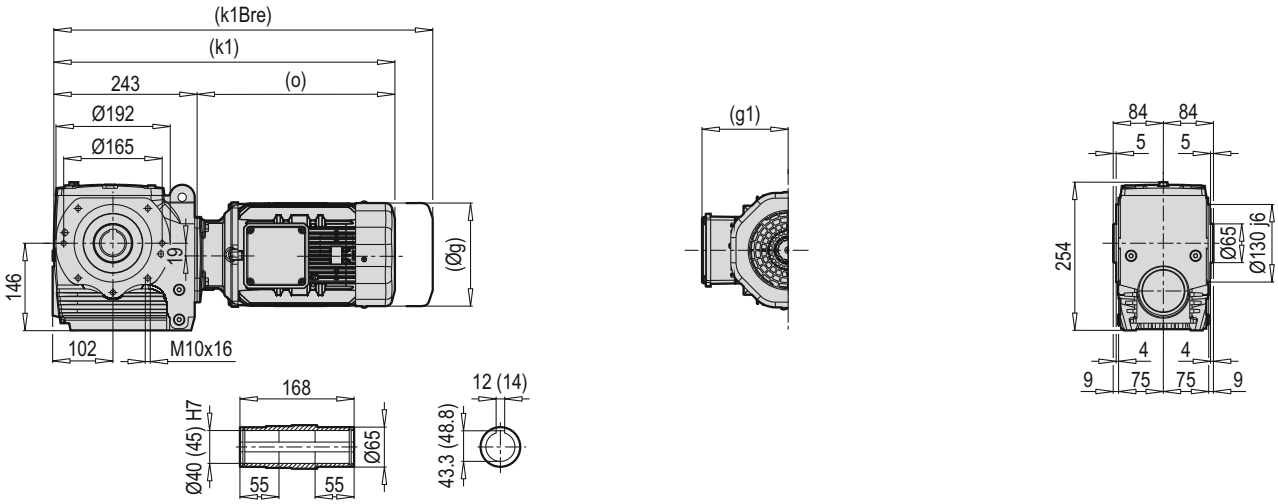
a1	b1	c1	e1	f1	s1
250	180	15	215	4	4 x 14
300	230	20	265	4	4 x 14

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

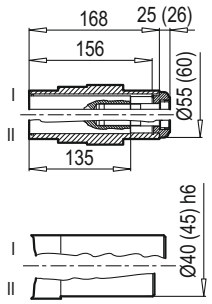
	80 M	90 L	100 L	112 M			
g	172	182	102	220			
g1	130.5	130	153	158.5			
k/k1	508 / 509	573.5 / 574.5	625 / 626	620 / 621			
kBre/k1Bre	578 / 579	582 / 583	708.5 / 709.5	719.5 / 720.5			
o	266	331.5	383	378			

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

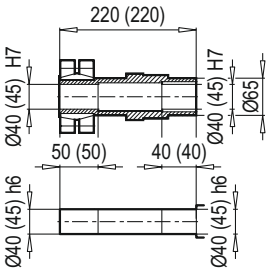
PSH 2080 DG/B14



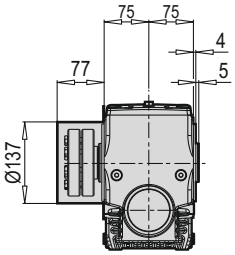
PSH 2080 DG/Ç 50 - 51



PSH 2080 DG/KS 44



PSH 2080 DG/KS/KK 47

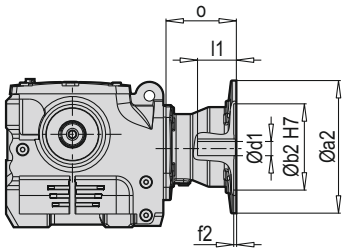


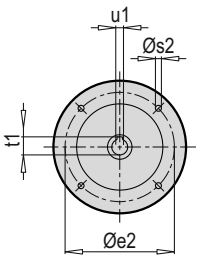
Konik sıktırma / Shrink disc / Schrumpfscheibe				Altıköşe başlı cıvata / Hexagonal screw / Sechskantschraube DIN 931 / DIN 933* 10.9Vz		
Tip / Type / Typ	Mamax (Nm)	s^{h6}	s^{f6}	dxl	Zs	MA (Nm)
KS 40/55	779	3.0	2.6	M8x40	8	30
KS 45/55	779	4.1	3.8	M8x40	8	30

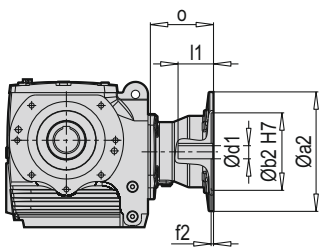
	80 M	90 L	100 L	112 M			
g	172	182	102	220			
g1	130.5	130	153	158.5			
k1	509	574.5	626	621			
k1Bre	579	583	709.5	720.5			
o	266	331.5	383	378			

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

PSH 2080 IEC



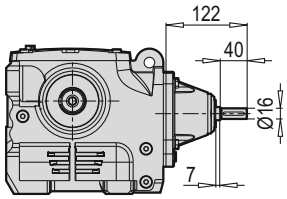


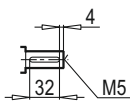


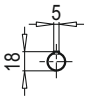
Tip / Type / Typ	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PSH 2080	**63**	140	95	115	3.5	M8	11	23	12.8	4	85
	71	160	110	130	4.0	M8	14	30	16.3	5	89
	80	200	130	165	4.0	M10	19	40	21.8	6	105
	90	200	130	165	4.0	M10	24	50	27.3	8	105
	100	250	180	215	5.0	M12	28	60	31.3	8	130
	112	250	180	215	5.0	M12	28	60	31.3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

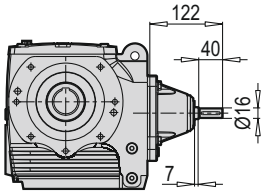
~ Kg	
IEC	PSH 2080
63	33
71	34
80	37
90	37
100	44
112	44

PSH 2080 W



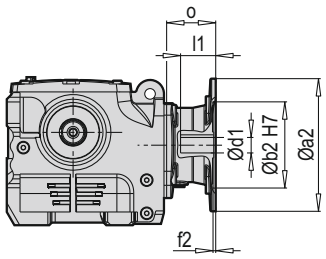


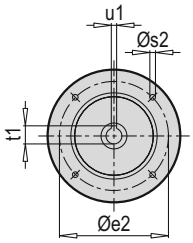


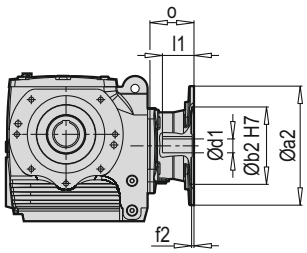


W ~ Kg	
PSH 2080	32

PSH 2080 PAM B5/B14







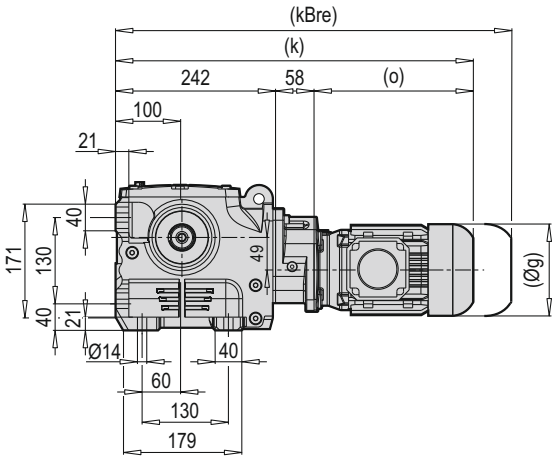
Tip / Type / Typ	PAM B5	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PSH 2080	63	140	95	115	3.5	M8	11	23	12.8	4	85
	71	160	110	130	4.0	M8	14	30	16.3	5	55
	80	200	130	165	4.0	M10	19	40	21.8	6	74
	90	200	130	165	4.0	M10	24	50	27.3	8	74
	100	250	180	215	5.0	M12	28	60	31.3	8	131.5
	112	250	180	215	5.0	M12	28	60	31.3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

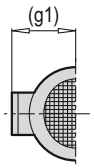
~ Kg	
PAM B5	PSH 2080
63	30
71	30
80	31
90	31
100	38
112	38

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

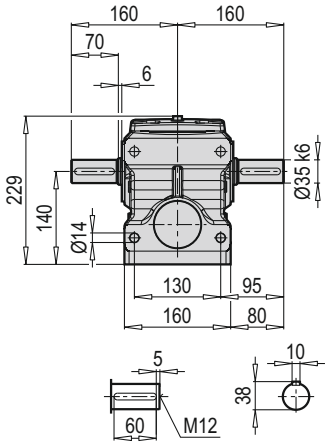
~ Kg	
PAM B14	PSH 2080
63	29
71	29
80	30
90	30
100	31
112	31

PSH 3080 TMA

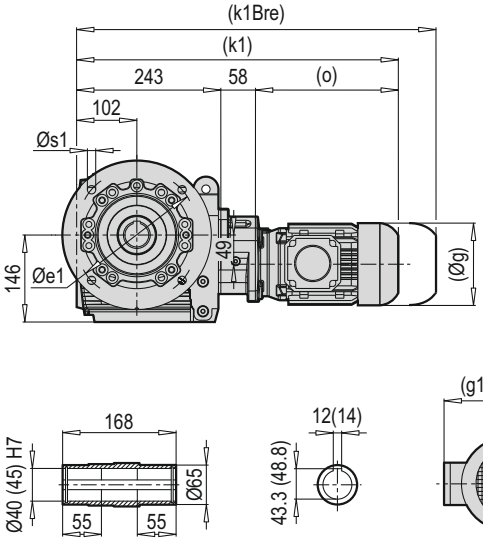




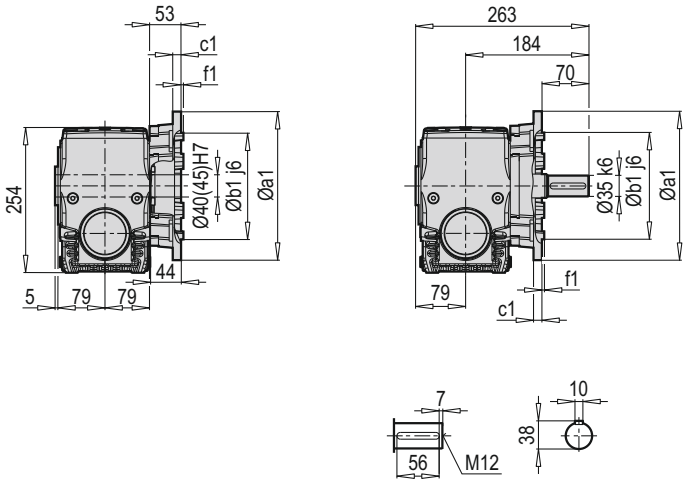
PSH 3080 ÇMA



PSH 3080 DG/B5



PSH 3080 TMG/B5



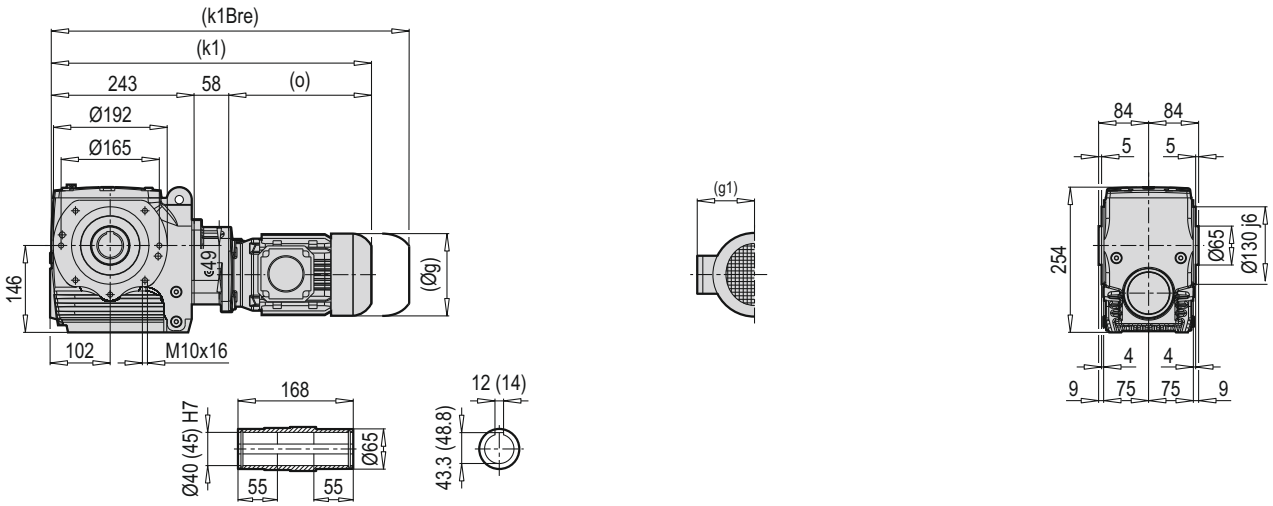
a1	b1	c1	e1	f1	s1
250	180	15	215	4	4 x 14
300	230	20	265	4	4 x 14

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

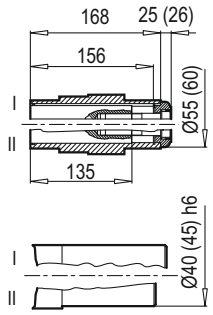
	63 M	71 M					
g	124	140					
g1	111	119					
k/k1	498 / 499	540 / 541					
kBre/k1Bre	550 / 551	600 / 601					
o	198	240					

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

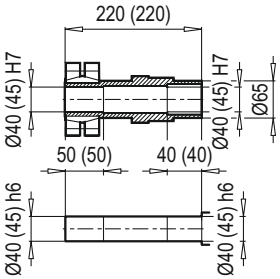
PSH 3080 DG/B14



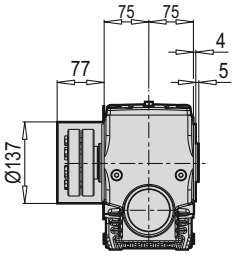
PSH 3080 DG/Ç 50 - 51



PSH 3080 DG/KS 44



PSH 3080 DG/KS/KK 47

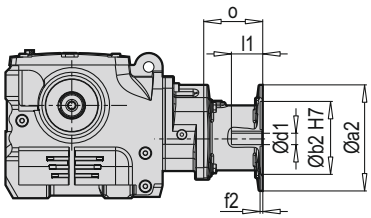


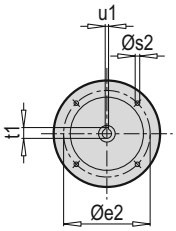
Tip / Type / Typ	Konik sıktırma / Shrink disc / Schrumpfscheibe Mamax (Nm)	s^{h6}	s^{f6}	Altıköşe başlı cıvata / Hexagonal screw / Sechskantschraube DIN 931 / DIN 933* 10.9Vz dxl	Zs	MA (Nm)
KS 40/55	779	3.0	2.6	M8x40	8	30
KS 45/55	779	4.1	3.8	M8x40	8	30

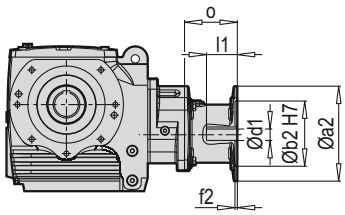
	63 M	71 M					
g	124	140					
g1	111	119					
k1	499	541					
k1Bre	551	601					
o	198	240					

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

PSH 3080 IEC



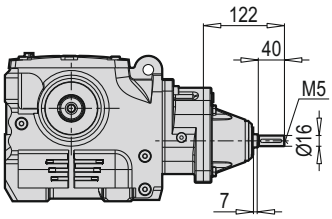


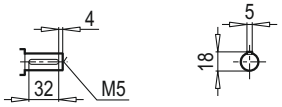


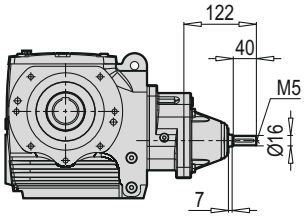
Tip / Type / Typ	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PSH 3080	63	140	95	115	3.5	M8	11	23	12.8	4	85
	71	160	110	130	4.0	M8	14	30	16.3	5	89

~ kg	
IEC	PSH 3080
63	38
71	39

PSH 3080 W

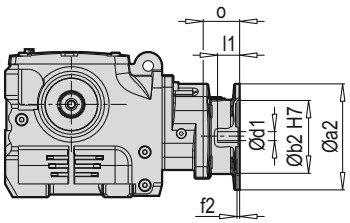


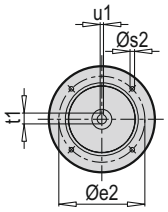


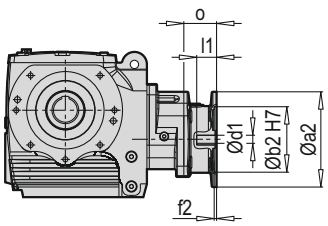


W ~ kg	
PSH 3080	37

PSH 3080 PAM B5/B14







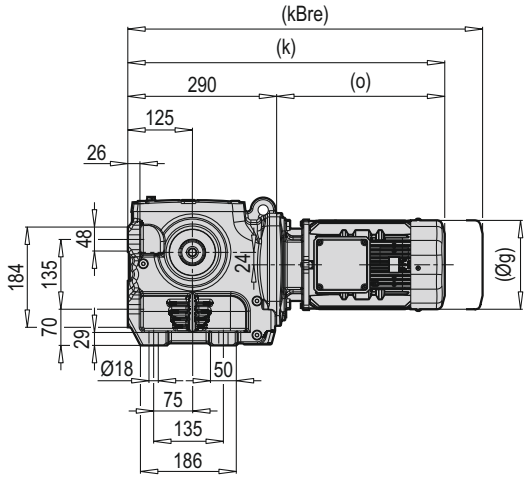
Tip / Type / Typ	PAM B5	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PSH 3080	63	140	95	115	3.5	M8	11	23	12.8	4	85
	71	160	110	130	4.0	M8	14	30	16.3	5	55

~ kg	
PAM B5	PSH 3080
63	35
71	35

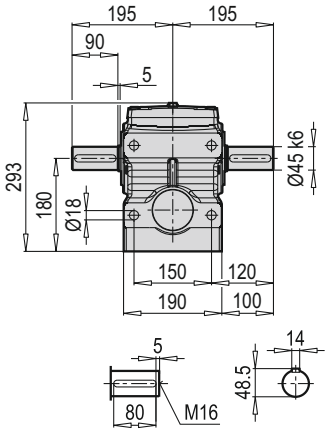
Tip / Type / Typ	PAM B14	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PSH 3080	63	90	60	75	4.0	6	11	23	12.8	4	60
	71	105	70	85	4.0	7	14	30	16.3	5	55

~ kg	
PAM B14	PSH 3080
63	34
71	34

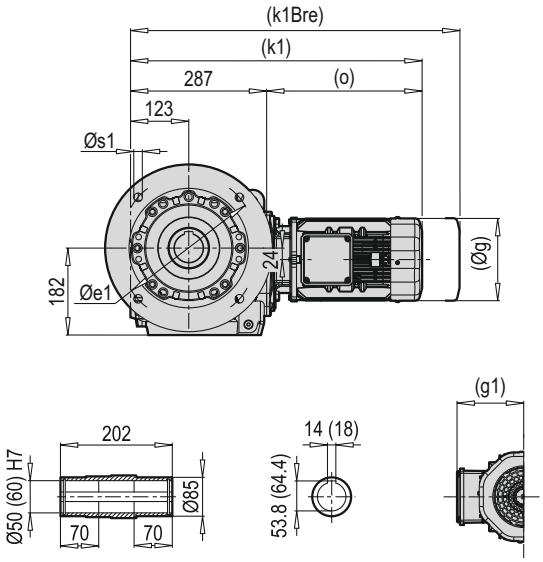
PSH 2100 TMA



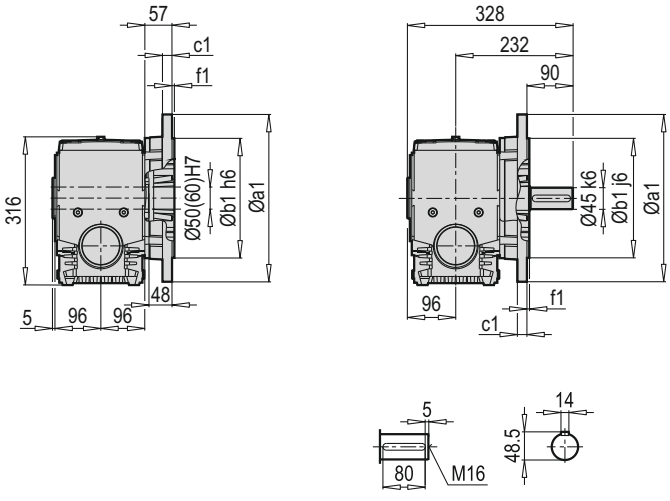
PSH 2100 ÇMA



PSH 2100 DG/B5



PSH 2100 TMG/B5



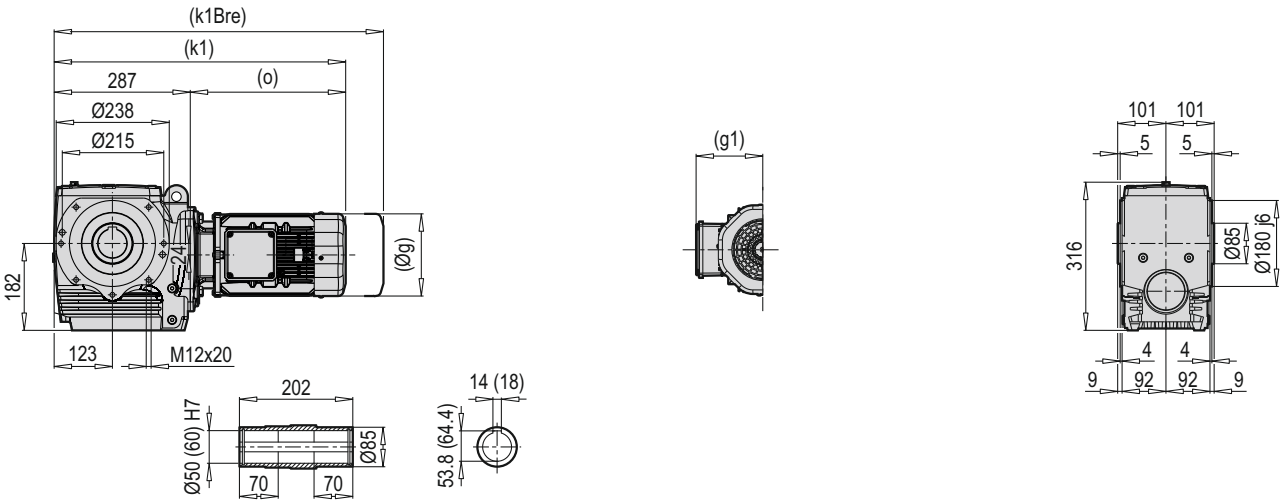
a1	b1	c1	e1	f1	s1
350	250	20	300	5	4 x 18

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

	80 M	90 L	100 L	112 M	132 S	132 M		
g	172	182	202	220	270.5	270.5		
g1	130.5	130	153	158.5	187.5	187.5		
k/k1	550 / 547	615.5 / 612.5	667 / 664	661.5 / 658.5	736.5 / 733.5	736.5 / 733.5		
kBre/k1Bre	620 / 617	684 / 681	750.5 / 747.5	761.5 / 758.5	836 / 833	863.5 / 860.5		
o	260	325.5	377	371.5	446.5	446.5		

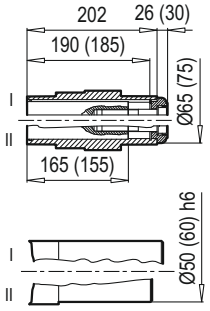
Not: (...) İşaretli olan ölçüler motor markasına göre farklılık gösterir. / Note : The dimensions which have (...) sign vary depending on the motor.

PSH 2100 DG/B14



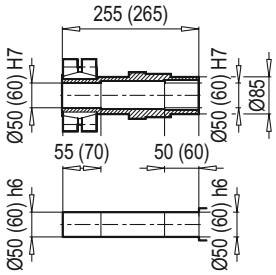
PSH 2100 DG/Ç

50 - 51



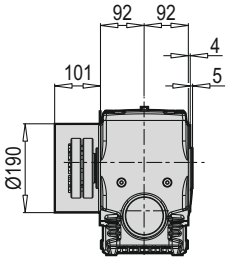
PSH 2100 DG/KS

44



PSH 2100 DG/KS/KK

47



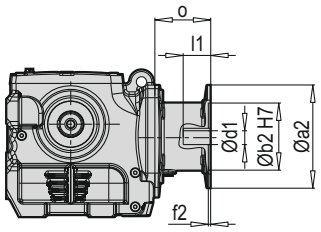
47

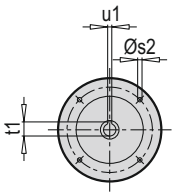
Tip / Type / Typ	Konik sıktırma / Shrink disc / Schrumpfscheibe Mamax (Nm)	sh6	sf6	Altıköşe başlı cıvata / Hexagonal screw / Sechskantschraube DIN 931 / DIN 933* 10.9Vz dxl	Zs	MA (Nm)
KS 50/62	1604	2.7	2.6	M8x40	10	30
KS 60/76	1604	5.1	4.7	M10x50	10	59

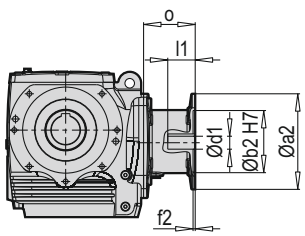
	80 M	90 L	100 L	112 M	132 S	132 M		
g	172	182	202	220	270.5	270.5		
g1	130.5	130	153	158.5	187.5	187.5		
k1	547	612.5	664	658.5	733.5	733.5		
k1Bre	617	681	747.5	758.5	833	860.5		
o	260	325.5	377	371.5	446.5	446.5		

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

PSH 2100 IEC



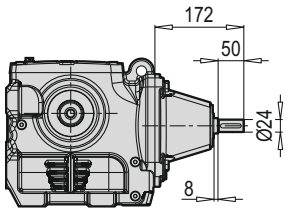


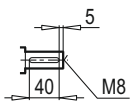


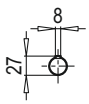
Tip / Type / Typ	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PSH 2100	71	160	110	130	4.0	M8	14	30	16.3	5	88
	80	200	130	165	4.0	M10	19	40	21.8	6	107
	90	200	130	165	4.0	M10	24	50	27.3	8	107
	100	250	180	215	5.0	M12	28	60	31.3	8	124
	112	250	180	215	5.0	M12	28	60	31.3	8	124
	132	300	230	265	5.0	M12	38	80	41.3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

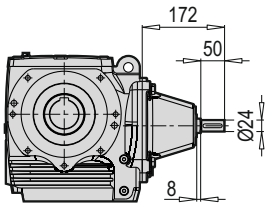
~ Kg	
IEC	PSH 2100
71	61
80	65
90	65
100	69
112	69
132	78

PSH 2100 W



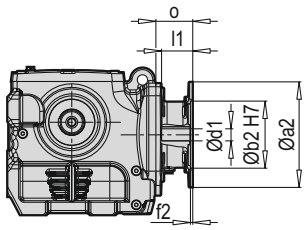


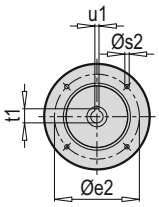


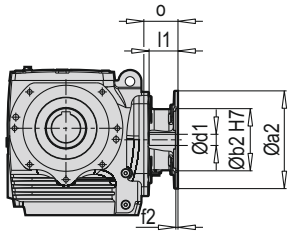


W ~ Kg	
PSH 2100	63

PSH 2100 PAM B5/B14







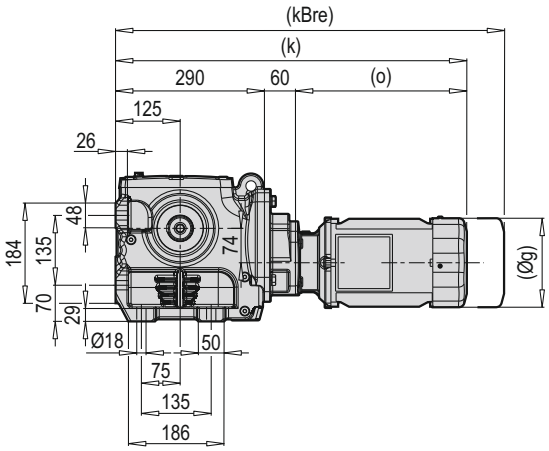
Tip / Type / Typ	PAM B5	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PSH 2100	71	160	110	130	4.0	M8	14	30	16.3	5	88
	80	200	130	165	4.0	M10	19	40	21.8	6	72
	90	200	130	165	4.0	M10	24	50	27.3	8	72
	100	250	180	215	5.0	M12	28	60	31.3	8	75
	112	250	180	215	5.0	M12	28	60	31.3	8	75
	132	300	230	265	5.0	M12	38	80	41.3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

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

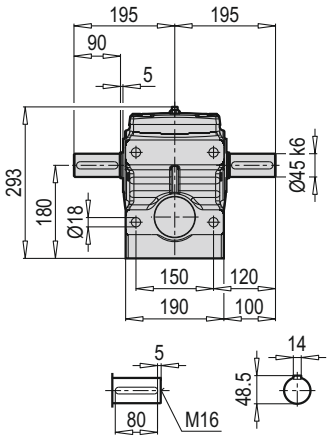
Tip / Type / Typ	PAM B14	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PSH 2100	71	105	70	85	4.0	7	14	30	16.3	5	88
	80	120	80	100	4.0	7	19	40	21.8	6	72
	90	140	95	115	4.0	9	24	50	27.3	8	72
	100	160	110	130	5.0	9	28	60	31.3	8	75
	112	160	110	130	5.0	9	28	60	31.3	8	75
	132	200	130	165	5.0	11	38	80	41.3	10	94

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

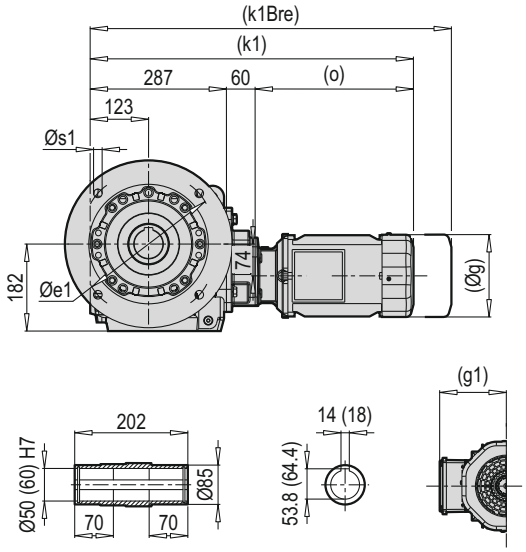
PSH 3100 TMA



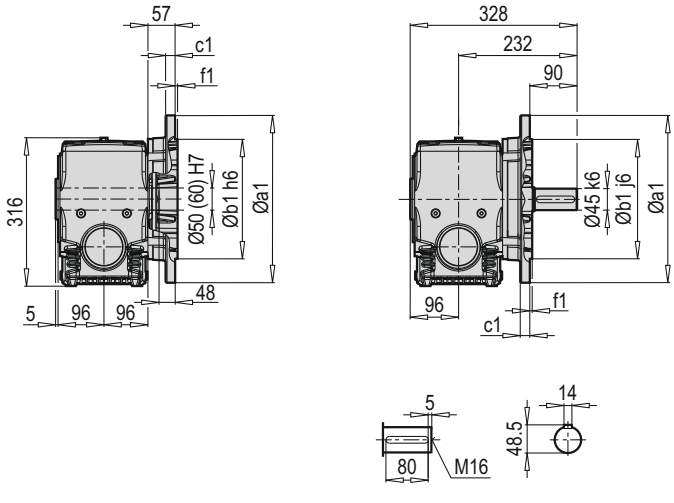
PSH 3100 ÇMA



PSH 3100 DG/B5



PSH 3100 TMG/B5



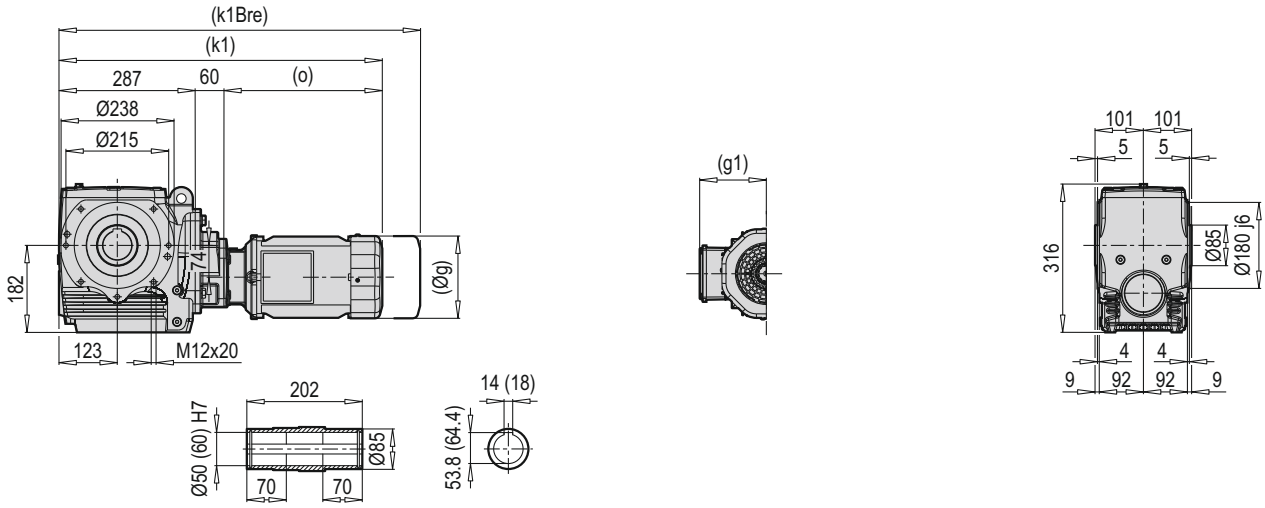
a1	b1	c1	e1	f1	s1
350	250	20	300	5	4 x 18

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

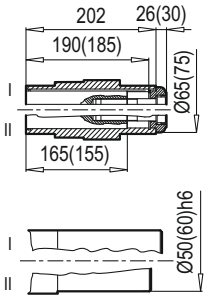
	80 M	90 L					
g	172	182					
g1	130.5	130					
k/k1	616 / 613	681.5 / 678.5					
kBre/k1Bre	686 / 683	690 / 687					
o	266	331.5					

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

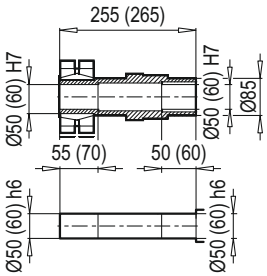
PSH 3100 DG/B14



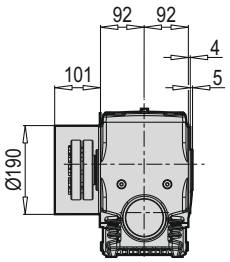
PSH 3100 DG/Ç 50 - 51



PSH 3100 DG/KS 44



PSH 3100 DG/KS/KK 47

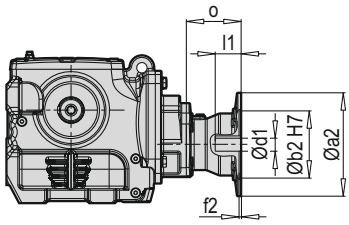


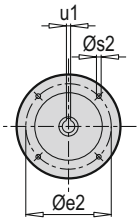
Konik sıktırma / Shrink disc / Schrumpfscheibe				Altıköşe başlı cıvata / Hexagonal screw / Sechskantschraube DIN 931 / DIN 933* 10.9Vz		
Tip / Type / Typ	Mamax (Nm)	s^{h6}	s^{f6}	dxl	Zs	MA (Nm)
KS 50/62	1604	2.7	2.6	M8x40	10	30
KS 60/76	1604	5.1	4.7	M10x50	10	59

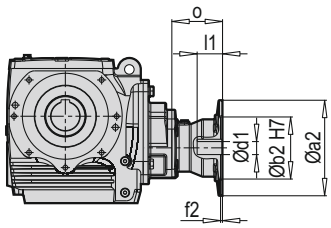
	80 M	90 L					
g	172	182					
g1	130.5	130					
k1	613	678.5					
k1Bre	683	687					
o	266	331.5					

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

PSH 3100 IEC



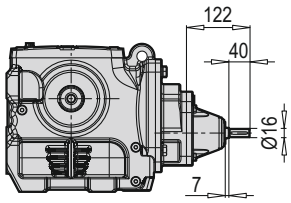


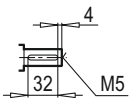


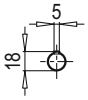
Tip / Type / Typ	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PSH 3100	63	140	95	115	3.5	M8	11	23	12.8	4	85
	71	160	110	130	4.0	M8	14	30	16.3	5	89
	80	200	130	165	4.0	M10	19	40	21.8	6	105
	90	200	130	165	4.0	M10	24	50	27.3	8	105

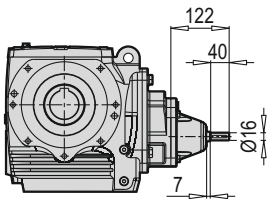
~ Kg	
IEC	PSH 3100
63	66
71	67
80	70
90	70

PSH 3100 W



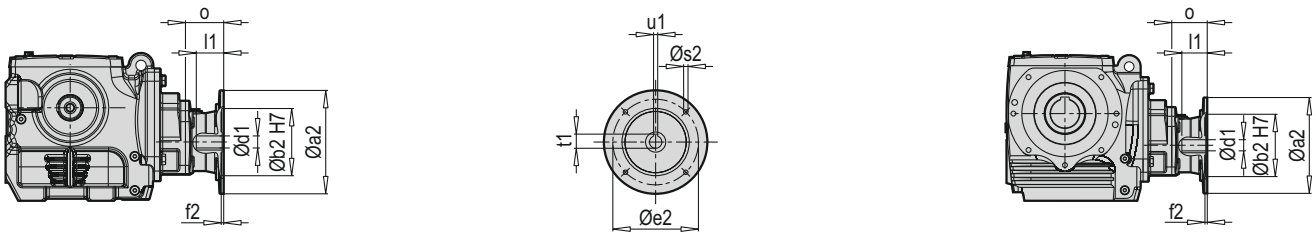






W ~ Kg	
PSH 3100	65

PSH 3100 PAM B5/B14



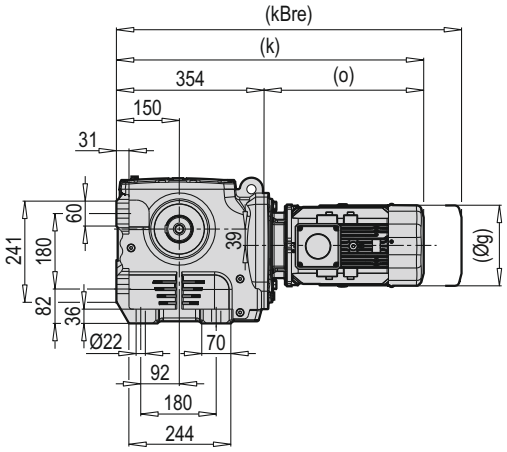
Tip / Type / Typ	PAM B5	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PSH 3100	63	140	95	115	3.5	M8	11	23	12.8	4	85
	71	160	110	130	4.0	M8	14	30	16.3	5	55
	80	200	130	165	4.0	M10	19	40	21.8	6	74
	90	200	130	165	4.0	M10	24	50	27.3	8	74

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

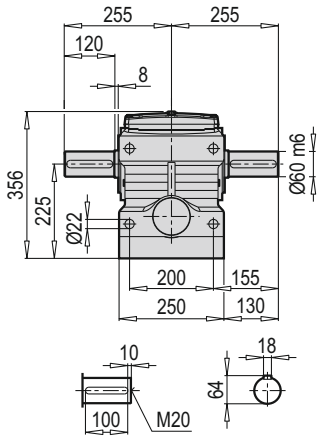
Tip / Type / Typ	PAM B14	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PSH 3100	63	90	60	75	4.0	6	11	23	12.8	4	60
	71	105	70	85	4.0	7	14	30	16.3	5	55
	80	120	80	100	4.0	7	19	40	21.8	6	74
	90	140	95	115	4.0	9	24	50	27.3	8	74

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

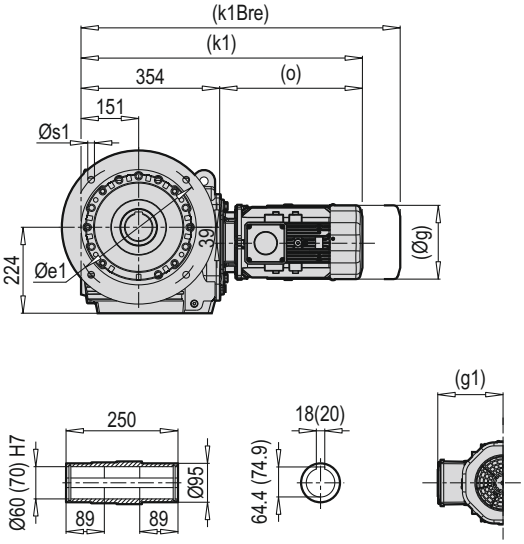
PSH 2125 TMA



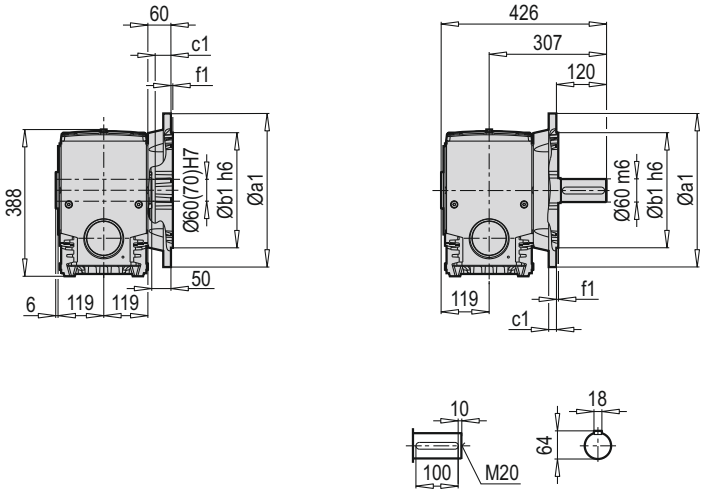
PSH 2125 ÇMA



PSH 2125 DG/B5



PSH 2125 TMG/B5



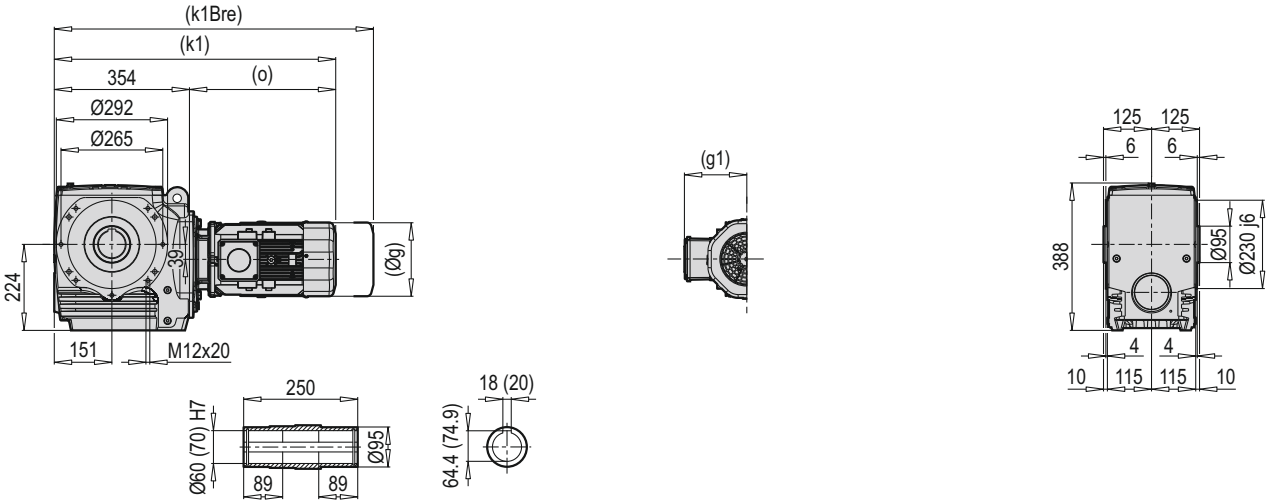
a1	b1	c1	e1	f1	s1
400	300	20	350	5	4 x 18
450	350	22	400	5	8 x 18

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

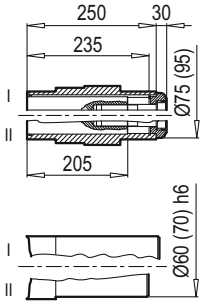
	90 L	100 L	112 M	132 S	132 M	160 M/L	
g	182	202	220	270.5	270.5	321.5	
g1	130	153	158.5	187.5	187.5	214	
k/k1	683.5	735	733.5	795.5	795.5	884	
kBre/k1Bre	751.5	818.5	833.5	895	915	988.5	
o	329.5	381	379.5	441.5	441.5	530	

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

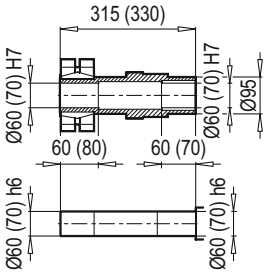
PSH 2125 DG/B14



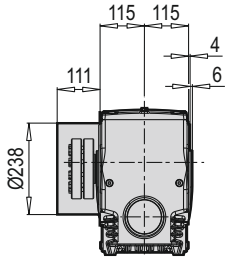
PSH 2125 DG/Ç 50 - 51



PSH 2125 DG/KS 44



PSH 2125 DG/KS/KK 47

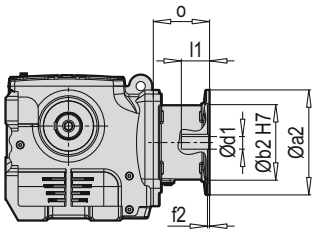


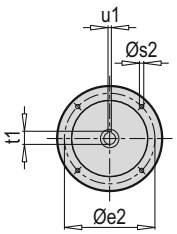
Tip / Type / Typ	Konik sıktırma / Shrink disc / Schrumpfscheibe Mamax (Nm)	s^{h6}	s^{f6}	Altıköşe başlı cıvata / Hexagonal screw / Sechskantschraube DIN 931 / DIN 933* 10.9Vz dxl	Zs	MA (Nm)
KS 60/76	3120	2.6	2.4	M10x50	10	59
KS 70/90	3120	4.4	4.1	M12x70*	10	100

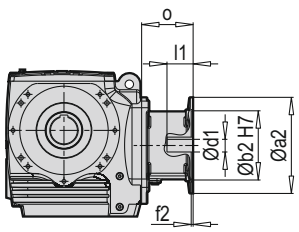
	90 L	100 L	112 M	132 S	132 M	160 M/L	
g	182	202	220	270.5	270.5	321.5	
g1	130	153	158.5	187.5	187.5	214	
k1	683.5	735	733.5	795.5	795.5	884	
k1Bre	751.5	818.5	833.5	895	915	988.5	
o	329.5	381	379.5	441.5	441.5	530	

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

PSH 2125 IEC



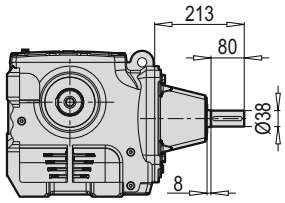


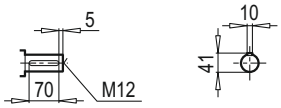


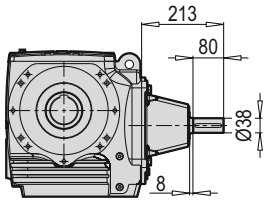
Tip / Type / Typ	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PSH 2125	**90**	200	130	165	4.0	M10	24	50	27.3	8	109
	100	250	180	215	5.0	M12	28	60	31.3	8	133
	112	250	180	215	5.0	M12	28	60	31.3	8	133
	132	300	230	265	5.0	M12	38	80	41.3	10	190
	160	350	250	300	6.0	M16	42	110	45.3	12	194

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

PSH 2125 W

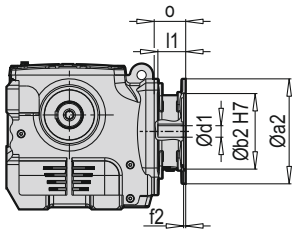


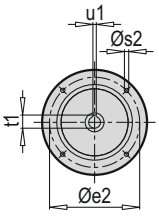


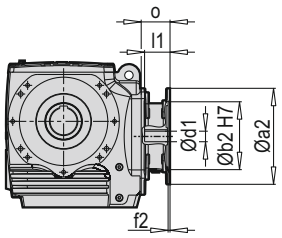


W ~ Kg	
PSH 2125	112

PSH 2125 PAM B5/B14







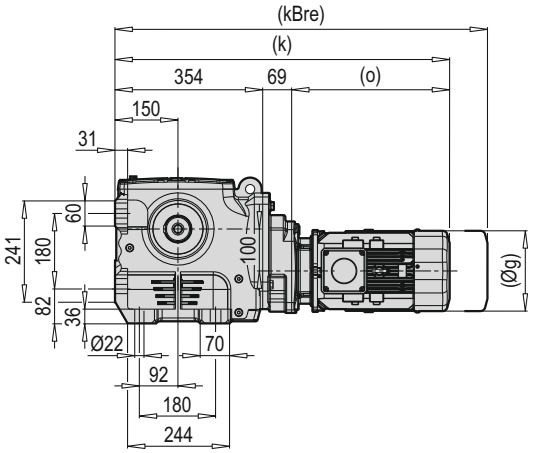
Tip / Type / Typ	PAM B5	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PSH 2125	90	200	130	165	4.0	M10	24	50	27.3	8	72
	100	250	180	215	5.0	M12	28	60	31.3	8	75
	112	250	180	215	5.0	M12	28	60	31.3	8	75
	132	300	230	265	5.0	M12	38	80	41.3	10	94
	160	350	250	300	6.0	M16	42	110	45.3	12	120

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

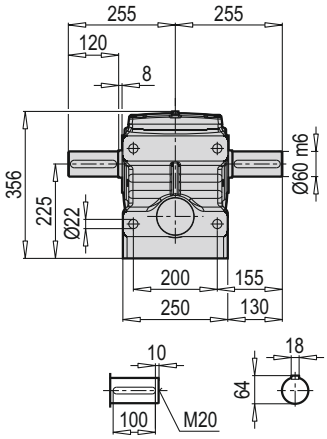
Tip / Type / Typ	PAM B14	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PSH 2125	90	140	95	115	4.0	9	24	50	27.3	8	72
	100	160	110	130	5.0	9	28	60	31.3	8	75
	112	160	110	130	5.0	9	28	60	31.3	8	75
	132	200	130	165	5.0	11	38	80	41.3	10	94

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

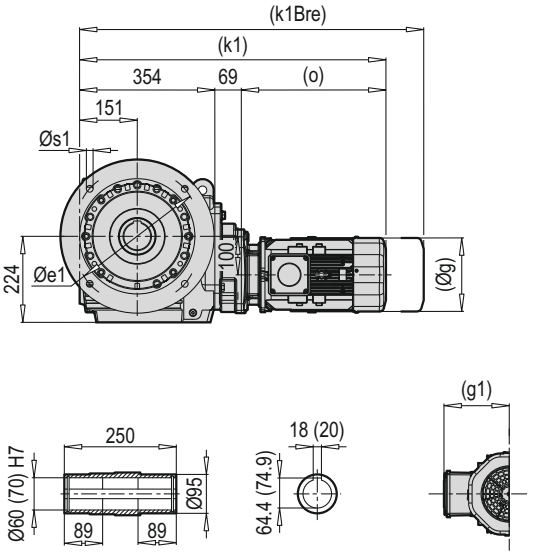
PSH 3125 TMA



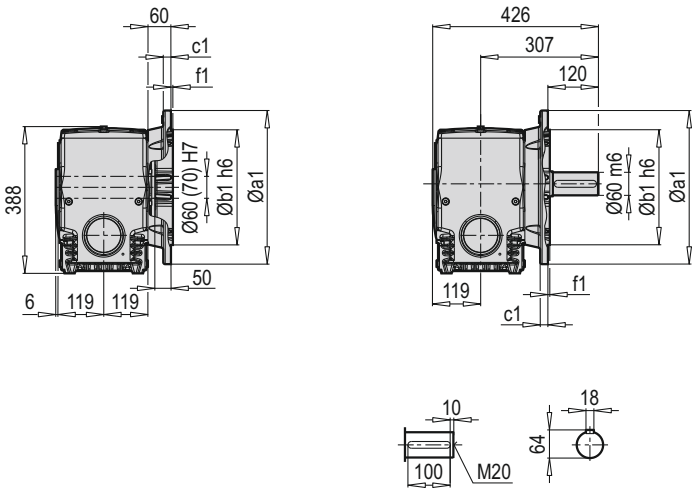
PSH 3125 ÇMA



PSH 3125 DG/B5



PSH 3125 TMG/B5



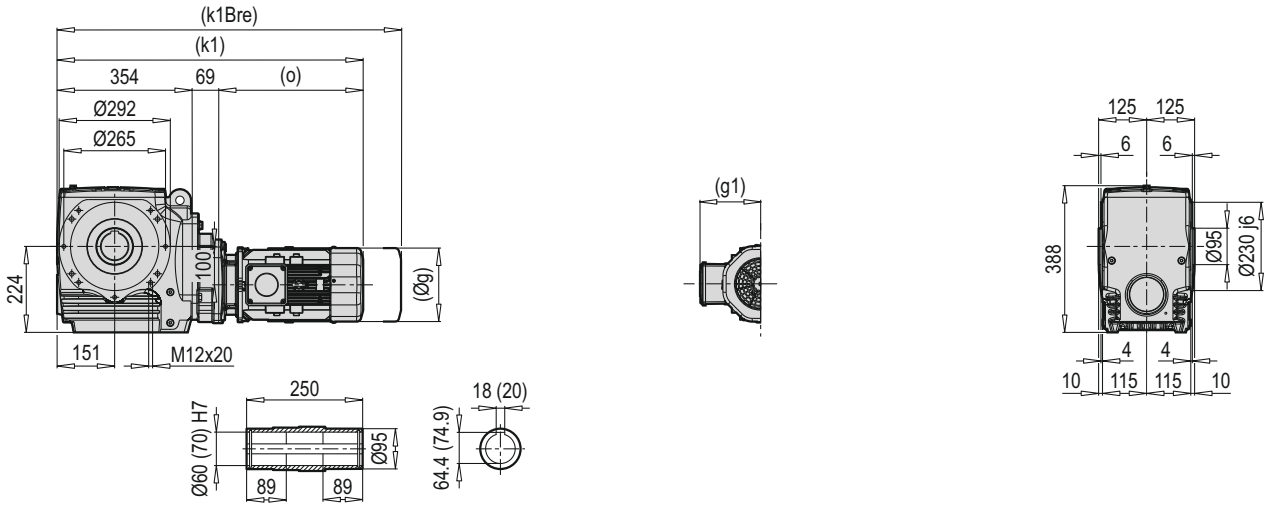
a1	b1	c1	e1	f1	s1
400	300	20	350	5	4 x 18
450	350	22	400	5	8 x 18

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

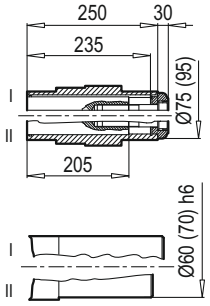
	80 M	90 L	100 L	112 M			
g	172	182	202	220			
g1	130.5	130	153	158.5			
k/k1	683 / 684	748.5 / 749.5	800 / 801	794.5 / 795.5			
kBre/k1Bre	753 / 754	817 / 818	883.5 / 884.5	894.5 /895.5			
o	260	325.5	377	371.5			

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

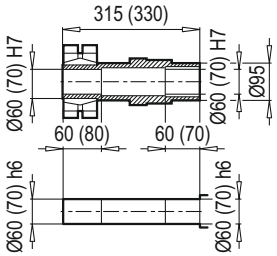
PSH 3125 DG/B14



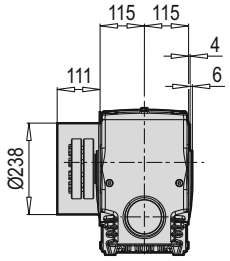
PSH 3125 DG/Ç 50 - 51



PSH 3125 DG/KS 44



PSH 3125 DG/KS/KK 47

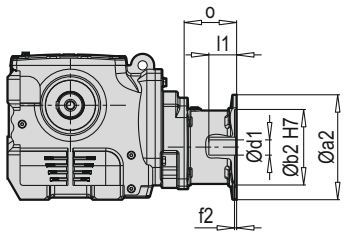


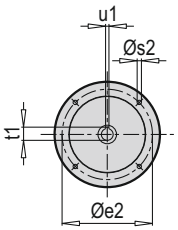
Tip / Type / Typ	Konik sıktırma / Shrink disc / Schrumpfscheibe Mamax (Nm)	sh6	sf6	Altıköşe başlı cıvata / Hexagonal screw / Sechskantschraube DIN 931 / DIN 933* 10.9Vz dxl	Zs	MA (Nm)
KS 60/76	3120	2.6	2.4	M10x50	10	59
KS 70/90	3120	4.4	4.1	M12x70*	10	100

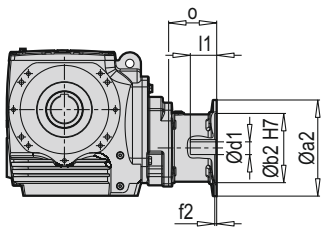
	80 M	90 L	100 L	112 M			
g	172	182	202	220			
g1	130.5	130	153	158.5			
k1	684	749.5	801	795.5			
k1Bre	754	818	884.5	895.5			
o	260	325.5	377	371.5			

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

PSH 3125 IEC



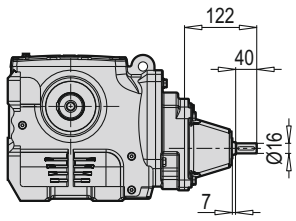


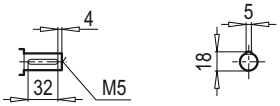


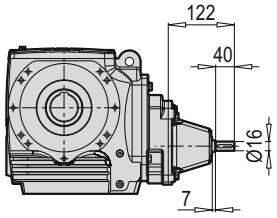
Tip / Type / Typ	IEC	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PSH 3125	71	160	110	130	4.0	M8	14	30	16.3	5	88
	80	200	130	165	4.0	M10	19	40	21.8	6	107
	90	200	130	165	4.0	M10	24	50	27.3	8	107
	100	250	180	215	5.0	M12	28	60	31.3	8	124
	112	250	180	215	5.0	M12	28	60	31.3	8	124

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

PSH 3125 W

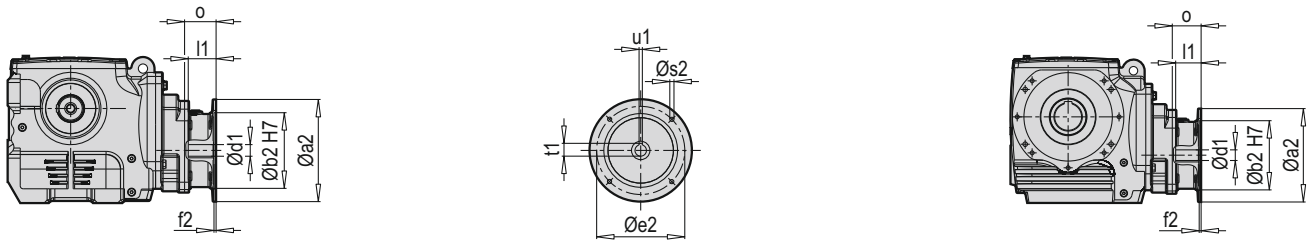






W ~ Kg	
PSH 3125	119

PSH 3125 PAM B5/B14



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

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

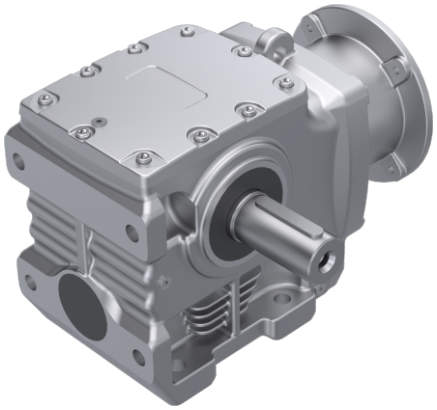
Tip / Type / Typ	PAM B14	Øa2	Øb2	Øe2	f2	Øs2	Ød1	l1	t1	u1	o
PSH 3125	71	105	70	85	4.0	7	14	30	16.3	5	88
	80	120	80	100	4.0	7	19	40	21.8	6	72
	90	140	95	115	4.0	9	24	50	27.3	8	72
	100	160	110	130	5.0	9	28	60	31.3	8	75
	112	160	110	130	5.0	9	28	60	31.3	8	75

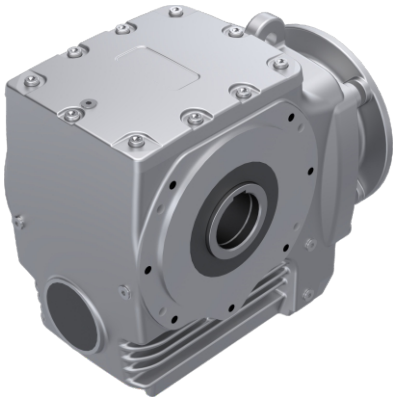
~ Kg	
PAM B14	PSH 3125
71	105
80	106
90	106
100	108
112	108

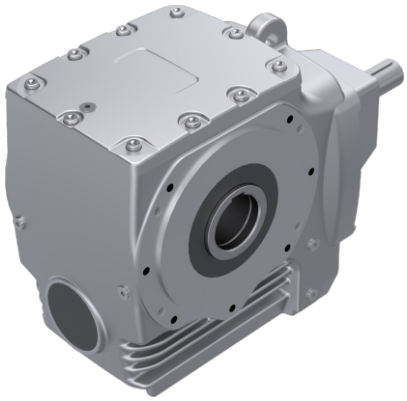
W - IEC ve PAM Adaptörü Seçim Tabloları

Selection Of W-IEC and PAM Adapters

Auswahltabelle von W - PAM - IEC Adapters







PSH

TR TEKNİK AÇIKLAMALAR

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

Helisel dişli tahvilleri
Helical gear reduction ratio
Schrägverzahnte Übersetzungen

Sonsuz vida dişli bilgileri
Worm gear information
Informationen zum Schneckengetriebe

Max. Giriş Gücü
Max. Input Power
Max. Antriebsleistung

Verim
Efficiency
Leistung

EN TECHNICAL DESCRIPTIONS

IEC'li yada PAM adaptörlü girişler için geçerli olan servis faktörü doğrudanmotor montajlı redüktörler ile aynıdır. IEC ve PAM montajlı redüktörlerin servis faktörü fB motorlu seçim sayfalarından bulunabilir.

Service factor fB 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

DE TECHNISCHE BESCHREIBUNGEN

Der Betriebsfaktor fB für Antriebe mit IEC- oder PAM-Adapter ist der gleiche wie für Getriebe mit Motordirektanschluss. Den Betriebsfaktor fB für Getriebe mit IEC- und PAM-Adapter finden Sie auf den Motorauswahltabellen.

Tip Type Typ	i_{ges}	i_1	Z_2 / Z_1	W n_1= 700 min^{-1}				W n_1= 465 min^{-1}				W n_1= 250 min^{-1}				IEC - PAM
				f_B=1	f_B≥1			f_B=1	f_B≥1			f_B=1	f_B≥1			f_B ➡ 📖 55 - 90
				n_2 [min^{-1}]	M_{amax} [Nm]	P_{1max} [kW]	η [%]	n_2 [min^{-1}]	M_{amax} [Nm]	P_{1max} [kW]	η [%]	n_2 [min^{-1}]	M_{amax} [Nm]	P_{1max} [kW]	η [%]	
PSH 2040	304.20	7.80	39/1	2.3	107	0.05	48	1.5	112	0.04	47	0.82	119	0.02	47	63* 71* 80*
	237.90	6.10	39/1	2.9	109	0.07	48	2.0	113	0.05	47	1.1	120	0.03	47	63* 71* 80*
	128.70	7.80	33/2	5.4	107	0.09	66	3.6	112	0.06	66	1.9	119	0.04	65	63* 71* 80*
	115.23	2.95	39/1	6.1	104	0.13	50	4.0	111	0.09	49	2.2	117	0.06	48	63 71* 80* 90*
	100.65	6.10	33/2	7.0	109	0.12	67	4.6	113	0.08	66	2.5	120	0.05	66	63 71* 80*
	99.45	2.55	39/1	7.0	103	0.15	50	4.7	110	0.11	49	2.5	116	0.06	48	63 71* 80* 90*
	86.86	2.23	39/1	8.1	99	0.16	51	5.4	105	0.12	49	2.9	112	0.07	48	63 71* 80* 90*
	76.38	1.96	39/1	9.2	98	0.18	52	6.1	104	0.13	50	3.3	112	0.08	48	63 71* 80* 90*
	67.50	1.73	39/1	10.4	96	0.20	52	6.9	102	0.15	50	3.7	110	0.09	49	63 71* 80* 90*
										.						
										.						
										.						
										0.36						
										0.36						
										0.36						
										0.36						
										0.36						

Redüktör Tipi
Gear unit type
Getriebetyp

Redüktör Tahvili
Reduction ratio
Verkleinerungsfaktor

Çıkış Devri
Output speed
Leistungsgeschwindigkeit

Max.çıkış momenti
Max.output torque
Abtriebsdrehmoment

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

P_{1max} value which is non-italicis 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 >1verwendet.

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 P1max in Spalte W darf nicht überschritten werden.

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-Motorgrößen und IEC-Standart-Abtriebe entsprechen DIN EN 50347.

63
63

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

This area which is colorless is shown IEC adapter is applicable for this IEC motor size and reduction ratio.

Digitale Bereichen zeigen, dass IEC Adapter für IEC Motorgröße und der Wechselkurse ist.

Tip Type Typ	i_{ges}	i_1	Z_2 / Z_1	W n_1= 1400 min^{-1}				W n_1= 930 min^{-1}				IEC - PAM					
				f_B=1			f_B≥1	f_B=1			f_B≥1	f_B ➡ 55 - 90					
				n_2 [min^{-1}]	M_{amax} [Nm]	P_{1max} [kW]	η [%]	n_2 [min^{-1}]	M_{amax} [Nm]	P_{1max} [kW]	η [%]						
PSH 2040 **W - IEC** mm 94 + **PAM** mm 95	304.20	7.80	39/1	4.6	100	0.10	49	3.1	104	0.07	48	63*	71*	80*			
	237.90	6.10	39/1	5.9	100	0.12	50	3.9	106	0.09	49	63*	71*	80*			
	128.70	7.80	33/2	10.9	100	0.17	68	7.2	104	0.12	67	63*	71*	80*			
	115.23	2.95	39/1	12.1	94	0.22	53	8.1	101	0.17	51	63	71*	80*	90*		
	100.65	6.10	33/2	13.9	100	0.21	68	9.2	106	0.15	67	63	71*	80*			
	99.45	2.55	39/1	14.1	92	0.25	54	9.4	99	0.19	52	63	71*	80*	90*		
	86.86	2.23	39/1	16.1	87	0.27	54	10.7	95	0.20	52	63	71*	80*	90*		
	76.38	1.96	39/1	18.3	85	0.30	55	12.2	93	0.22	53	63	71*	80*	90*		
	67.50	1.73	39/1	20.7	82	0.32	56	13.8	91	0.24	54	63	71*	80*	90*		
	59.80	7.80	23/3	23.4	100	0.31	78	15.6	104	0.22	78	63	71*	80*			
	52.00	1.33	39/1	26.9	81	0.39	58	17.9	91	0.31	55	63	71	80*	90*		
	46.77	6.10	23/3	29.9	100	0.40	79	19.9	106	0.28	78	63	71	80*			
	45.00	1.15	39/1	31.3	81	0.45	59	20.8	92	0.36	56	63	71	80*	90*		
	42.08	2.55	33/2	33.3	85	0.42	71	22.1	92	0.30	70	63	71	80*	90*		
	36.75	2.23	33/2	38.1	81	0.45	72	25.3	88	0.33	70	63	71	80*	90*		
	32.31	1.96	33/2	43.3	78	0.49	72	28.8	85	0.36	71	63	71	80*	90*		
	28.56	1.73	33/2	49.0	75	0.53	73	32.6	83	0.40	71	63	71	80*	90*		
	22.00	1.33	33/2	63.6	73	0.66	74	42.3	82	0.50	72	63	71	80*	90*		
	19.55	2.55	23/3	71.6	80	0.74	81	47.6	86	0.54	80	63	71	80*	90*		
	17.08	2.23	23/3	82.0	78	0.83	81	54.4	85	0.61	80	63	71	80	90*		
	15.01	1.96	23/3	93.3	75	0.89	82	62.0	82	0.66	81	63	71	80	90*		
	13.27	1.73	23/3	105.5	73	0.98	82	70.1	81	0.73	81	63	71	80	90*		
	10.22	1.33	23/3	137.0	68	1.10	83	91.0	77	0.73	82	63	71	80	90*		
	8.85	1.15	23/3	159.1	65	1.10	83	105.7	74	0.73	82	63	71	80	90*		
	7.51	1.96	23/6	186.4	57	1.10	87	123.8	62	0.73	86	63	71	80	90*		
	6.63	1.73	23/6	211.2	54	1.10	87	140.3	60	0.73	86	63	71	80	90*		
	5.11	1.33	23/6	274.0	48	1.10	88	182.0	54	0.73	87	63	71	80	90*		
	4.40	1.15	23/6	318.2	46	1.10	88	211.4	52	0.73	87	63	71	80	90*		

	IEC - 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 asterix / Bei IEC - PAM-Verbindungen, sollten die P_{1max}-Werte nicht überschritten werden.

Tip Type Typ	i_{ges}	i_1	Z_2 / Z_1	W n_1= 700 min^{-1} f_B=1 n_2 [min^{-1}]	W n_1= 700 min^{-1} f_B≥1 M_{amax} [Nm]	W n_1= 700 min^{-1} f_B≥1 P_{1max} [kW]	W n_1= 700 min^{-1} f_B≥1 η [%]	W n_1= 465 min^{-1} f_B=1 n_2 [min^{-1}]	W n_1= 465 min^{-1} f_B≥1 M_{amax} [Nm]	W n_1= 465 min^{-1} f_B≥1 P_{1max} [kW]	W n_1= 465 min^{-1} f_B≥1 η [%]	W n_1= 250 min^{-1} f_B=1 n_2 [min^{-1}]	W n_1= 250 min^{-1} f_B≥1 M_{amax} [Nm]	W n_1= 250 min^{-1} f_B≥1 P_{1max} [kW]	W n_1= 250 min^{-1} f_B≥1 η [%]	IEC - PAM f_B ➡ 📖 55 - 90			
PSH 2040	304.20	7.80	39/1	2.3	107	0.05	48	1.5	112	0.04	47	0.82	119	0.02	47	63*	71*	80*	
	237.90	6.10	39/1	2.9	109	0.07	48	2.0	113	0.05	47	1.1	120	0.03	47	63*	71*	80*	
	128.70	7.80	33/2	5.4	107	0.09	66	3.6	112	0.06	66	1.9	119	0.04	65	63*	71*	80*	
W - IEC	**115.23**	2.95	39/1	6.1	104	0.13	50	4.0	111	0.09	49	2.2	117	0.06	48	63	71*	80*	90*
mm	100.65	6.10	33/2	7.0	109	0.12	67	4.6	113	0.08	66	2.5	120	0.05	66	63	71*	80*	
📖 94	**99.45**	2.55	39/1	7.0	103	0.15	50	4.7	110	0.11	49	2.5	116	0.06	48	63	71*	80*	90*
+	**86.86**	2.23	39/1	8.1	99	0.16	51	5.4	105	0.12	49	2.9	112	0.07	48	63	71*	80*	90*
	76.38	1.96	39/1	9.2	98	0.18	52	6.1	104	0.13	50	3.3	112	0.08	48	63	71*	80*	90*
PAM	**67.50**	1.73	39/1	10.4	96	0.20	52	6.9	102	0.15	50	3.7	110	0.09	49	63	71*	80*	90*
mm	59.80	7.80	23/3	11.7	107	0.17	77	7.8	112	0.12	77	4.2	119	0.07	77	63	71*	80*	
📖 95	**52.00**	1.33	39/1	13.5	97	0.26	53	8.9	105	0.19	51	4.8	114	0.12	49	63	71	80*	90*
	46.77	6.10	23/3	15.0	109	0.22	78	9.9	113	0.15	77	5.3	120	0.09	77	63	71	80*	
	45.00	1.15	39/1	15.6	99	0.30	54	10.4	108	0.23	52	5.6	118	0.14	50	63	71	80*	90*
	42.08	2.55	33/2	16.6	95	0.24	69	11.1	101	0.17	68	5.9	107	0.10	66	63	71	80*	90*
	36.75	2.23	33/2	19.0	92	0.27	69	12.7	98	0.19	68	6.8	104	0.11	67	63	71	80*	90*
	32.31	1.96	33/2	21.7	90	0.29	70	14.4	95	0.21	68	7.7	102	0.12	67	63	71	80*	90*
	28.56	1.73	33/2	24.5	87	0.32	70	16.3	93	0.23	69	8.8	101	0.14	67	63	71	80*	90*
	22.00	1.33	33/2	31.8	88	0.41	71	21.1	95	0.30	69	11.4	103	0.18	68	63	71	80*	90*
	19.55	2.55	23/3	35.8	90	0.43	79	23.8	95	0.30	78	12.8	101	0.17	78	63	71	80*	90*
	17.08	2.23	23/3	41.0	88	0.47	80	27.2	94	0.34	79	14.6	100	0.20	78	63	71	80	90*
	15.01	1.96	23/3	46.6	86	0.52	80	31.0	92	0.38	79	16.7	99	0.22	78	63	71	80	90*
	13.27	1.73	23/3	52.8	85	0.59	80	35.0	90	0.42	79	18.8	98	0.25	78	63	71	80	90*
	10.22	1.33	23/3	68.5	82	0.55	81	45.5	88	*0.36*	80	24.5	96	0.20	78	63	71	80	90*
	8.85	1.15	23/3	79.5	80	0.55	81	52.8	87	*0.36*	80	28.4	94	0.20	79	63	71	80	90*
	7.51	1.96	23/6	93.2	66	0.55	85	61.9	70	*0.36*	84	33.3	75	0.20	84	63	71	80	90*
	6.63	1.73	23/6	105.6	63	0.55	86	70.1	67	*0.36*	85	37.7	72	0.20	84	63	71	80	90*
	5.11	1.33	23/6	137.0	58	0.55	86	91.0	62	*0.36*	85	48.9	68	0.20	84	63	71	80	90*
	4.40	1.15	23/6	159.1	56	0.55	86	105.7	61	*0.36*	85	56.8	67	0.20	84	63	71	80	90*

	IEC - 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 asterix / Bei IEC - PAM-Verbindungen, sollten die P_{1max}-Werte nicht überschritten werden.

Tip Type Typ	i_{ges}	i_1	Z_2 / Z_1	W n_1= 1400 min^{-1} f_B=1				W n_1= 930 min^{-1} f_B=1				IEC - PAM f_B ➡ 📖 55 - 90					
				n_2 [min^{-1}]	M_{amax} [Nm]	P_{1max} [kW]	η [%]	n_2 [min^{-1}]	M_{amax} [Nm]	P_{1max} [kW]	η [%]						
PSH 3050 **W - IEC** mm 📖 102 + **PAM** mm 📖 103	3016.29	59.14	51/1	0.46	195	0.02	47	0.31	199	0.01	46	63*	71*				
	2248.25	44.08	51/1	0.62	195	0.03	47	0.41	201	0.02	46	63*	71*				
	1969.48	38.62	51/1	0.71	195	0.03	47	0.47	202	0.02	47	63*	71*				
	1746.47	34.24	51/1	0.80	195	0.03	47	0.53	203	0.02	47	63*	71*				
	1330.71	59.14	45/2	1.1	195	0.03	65	0.70	199	0.02	65	63*	71*				
	991.88	44.08	45/2	1.4	195	0.04	66	0.94	201	0.03	65	63*	71*				
	868.89	38.62	45/2	1.6	195	0.05	66	1.1	202	0.04	65	63*	71*				
	755.93	14.82	51/1	1.9	195	0.08	48	1.2	203	0.05	47	63*	71*				
	663.52	13.01	51/1	2.1	195	0.09	48	1.4	203	0.06	47	63*	71*				
	586.50	11.50	51/1	2.4	195	0.10	48	1.6	203	0.07	48	63*	71*				
	473.94	9.29	51/1	3.0	195	0.13	49	2.0	202	0.09	48	63*	71*				
	412.72	8.09	51/1	3.4	195	0.14	49	2.3	203	0.10	48	63*	71*				
	333.50	14.82	45/2	4.2	195	0.13	67	2.8	203	0.09	66	63*	71*				
	292.73	13.01	45/2	4.8	195	0.15	67	3.2	203	0.10	66	63*	71*				
	209.09	9.29	45/2	6.7	195	0.20	68	4.4	202	0.14	67	63	71*				
	182.08	8.09	45/2	7.7	195	0.23	68	5.1	203	0.16	67	63	71*				
	158.10	14.82	32/3	8.9	195	0.23	78	5.9	203	0.16	77	63	71*				
	138.77	13.01	32/3	10.1	195	0.26	78	6.7	203	0.18	77	63	71*				
	122.67	11.50	32/3	11.4	195	0.30	78	7.6	203	0.21	77	63	71*				
	99.12	9.29	32/3	14.1	190	0.36	78	9.4	197	0.25	78	63	71*				
	86.32	8.09	32/3	16.2	180	0.37	79	10.8	187	0.24	78	63	71				
	76.58	14.82	31/6	18.3	140	0.32	83	12.1	141	0.22	83	63	71*				
	67.22	13.01	31/6	20.8	130	0.34	84	13.8	136	0.24	83	63	71*				
	59.42	11.50	31/6	23.6	130	0.37	84	15.7	135	0.24	83	63	71				
	48.01	9.29	31/6	29.2	110	0.37	84	19.4	114	0.24	83	63	71				
	41.81	8.09	31/6	33.5	110	0.37	84	22.2	110	0.24	84	63	71				

	IEC - 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 asterix / Bei IEC - PAM-Verbindungen, sollten die P_{1max}-Werte nicht überschritten werden.

Tip Type Typ	i_{ges}	i_1	Z_2 / Z_1	W n_1= 700 min^{-1} f_B=1 n_2 [min^{-1}]	M_{amax} [Nm]	P_{1max} [kW]	η [%]	W n_1= 465 min^{-1} f_B=1 n_2 [min^{-1}]	M_{amax} [Nm]	P_{1max} [kW]	η [%]	W n_1= 250 min^{-1} f_B=1 n_2 [min^{-1}]	M_{amax} [Nm]	P_{1max} [kW]	η [%]	IEC - PAM f_B ➡ 55 - 90			
PSH 3050 **W - IEC** mm 102 + **PAM** mm 103	3016.29	59.14	51/1	0.23	202	0.01	46	0.15	215	0.01	46	0.08	232	-	46	63*	71*		
	2248.25	44.08	51/1	0.31	204	0.01	46	0.21	207	0.01	46	0.11	230	0.01	46	63*	71*		
	1969.48	38.62	51/1	0.36	205	0.02	46	0.24	209	0.01	46	0.13	229	0.01	46	63*	71*		
	1746.47	34.24	51/1	0.40	207	0.02	46	0.27	211	0.01	46	0.14	227	0.01	46	63*	71*		
	1330.71	59.14	45/2	0.53	202	0.02	65	0.35	215	0.01	65	0.19	232	0.01	65	63*	71*		
	991.88	44.08	45/2	0.71	204	0.02	65	0.47	207	0.02	65	0.25	230	0.01	65	63*	71*		
	868.89	38.62	45/2	0.81	205	0.03	65	0.54	209	0.02	65	0.29	229	0.01	65	63*	71*		
	755.93	14.82	51/1	0.93	208	0.04	47	0.62	219	0.03	47	0.33	227	0.02	46	63*	71*		
	663.52	13.01	51/1	1.1	208	0.05	47	0.70	219	0.03	47	0.38	229	0.02	46	63*	71*		
	586.50	11.50	51/1	1.2	208	0.06	47	0.79	218	0.04	47	0.43	229	0.02	46	63*	71*		
	473.94	9.29	51/1	1.5	209	0.07	48	1.0	216	0.05	47	0.53	231	0.03	47	63*	71*		
	412.72	8.09	51/1	1.7	209	0.08	48	1.1	217	0.05	47	0.61	232	0.03	47	63	71*		
	333.50	14.82	45/2	2.1	208	0.07	66	1.4	219	0.05	65	0.75	227	0.03	65	63*	71*		
	292.73	13.01	45/2	2.4	208	0.08	66	1.6	219	0.06	66	0.85	229	0.03	65	63*	71*		
	209.09	9.29	45/2	3.3	209	0.11	66	2.2	216	0.08	66	1.2	231	0.04	65	63*	71*		
	182.08	8.09	45/2	3.8	209	0.13	66	2.6	217	0.09	66	1.4	232	0.05	66	63	71*		
	158.10	14.82	32/3	4.4	208	0.12	77	2.9	219	0.09	77	1.6	227	0.05	77	63	71*		
	138.77	13.01	32/3	5.0	208	0.14	77	3.4	219	0.10	77	1.8	229	0.06	77	63	71*		
	122.67	11.50	32/3	5.7	208	0.16	77	3.8	218	0.11	77	2.0	229	0.06	77	63	71*		
	99.12	9.29	32/3	7.1	203	0.20	77	4.7	211	0.13	77	2.5	225	0.08	77	63	71*		
	86.32	8.09	32/3	8.1	193	0.21	78	5.4	199	0.12	77	2.9	199	0.07	77	63	71*		
	76.58	14.82	31/6	9.1	141	0.16	83	6.1	141	0.12	83	3.3	139	0.06	82	63	71*		
	67.22	13.01	31/6	10.4	139	0.18	83	6.9	139	0.12	83	3.7	138	0.07	82	63	71*		
	59.42	11.50	31/6	11.8	138	0.19	83	7.8	138	0.12	83	4.2	137	0.07	82	63	71*		
	48.01	9.29	31/6	14.6	118	0.19	83	9.7	120	0.12	83	5.2	120	0.07	83	63	71*		
	41.81	8.09	31/6	16.7	109	0.19	83	11.1	109	0.12	83	6.0	109	0.07	83	63	71*		

	IEC - 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 asterix / Bei IEC - PAM-Verbindungen, sollten die P_{1max}-Werte nicht überschritten werden.

Tip Type Typ	i_{ges}	i_1	Z_2 / Z_1	W n_1= 1400 min^{-1} f_B=1				W n_1= 930 min^{-1} f_B=1				IEC - PAM f_B ➡ 55 - 90					
				n_2 [min^{-1}]	M_{amax} [Nm]	P_{1max} [kW]	η [%]	n_2 [min^{-1}]	M_{amax} [Nm]	P_{1max} [kW]	η [%]						
PSH 2050	524.57	10.29	51/1	2.7	185	0.11	49	1.8	192	0.08	48	63*	71*				
	439.88	8.62	51/1	3.2	185	0.13	49	2.1	192	0.09	48	63*	71*				
	385.33	7.56	51/1	3.6	185	0.14	50	2.4	193	0.10	48	63*	71*				
W - IEC	341.70	6.70	51/1	4.1	185	0.16	50	2.7	195	0.11	49		71*	80*			
mm	231.43	10.29	45/2	6.0	185	0.17	67	4.0	192	0.12	67	63*	71*				
98	194.06	8.62	45/2	7.2	185	0.21	68	4.8	192	0.14	67	63	71*				
+	170.00	7.56	45/2	8.2	185	0.23	68	5.5	193	0.17	67	63	71*				
PAM	**147.90**	2.90	51/1	9.5	175	0.32	54	6.3	188	0.24	52	63	71*	80*	90*		
mm	**129.82**	2.55	51/1	10.8	168	0.35	55	7.2	181	0.26	52	63	71*	80*	90*		
99	**114.75**	2.25	51/1	12.2	168	0.38	56	8.1	182	0.29	53	63	71	80*	90*		
	92.73	1.82	51/1	15.1	168	0.47	57	10.0	185	0.36	54	63	71	80*	90*		
	80.75	1.58	51/1	17.3	168	0.52	58	11.5	187	0.41	55	63	71	80*	90*		
	65.25	2.90	45/2	21.5	168	0.53	72	14.3	180	0.39	70	63	71	80*	90*		
	57.27	2.55	45/2	24.4	168	0.60	72	16.2	181	0.44	70	63	71	80*	90*		
	50.63	2.25	45/2	27.7	155	0.62	73	18.4	168	0.46	71	63	71	80*	90*		
	40.91	1.82	45/2	34.2	155	0.75	74	22.7	171	0.56	72	63	71	80	90*		
	35.63	1.58	45/2	39.3	155	0.85	75	26.1	172	0.65	72	63	71	80	90*		
	30.93	2.90	32/3	45.3	155	0.91	81	30.1	166	0.65	80	63	71	80	90*		
	27.15	2.55	32/3	51.6	155	1.02	82	34.3	167	0.75	80	63	71	80	90*		
	24.00	2.25	32/3	58.3	155	1.15	82	38.8	168	0.84	81	63	71	80	90*		
	19.39	1.82	32/3	72.2	145	1.32	83	48.0	160	0.98	82	63	71	80	90*		
	16.89	1.58	32/3	82.9	120	1.26	83	55.1	133	0.94	82	63	71	80	90*		
	14.77	1.38	32/3	94.8	113	1.34	84	63.0	127	1.02	82	63	71	80	90*		
	13.15	2.55	31/6	106.5	120	1.50	87	70.7	129	0.99	86	63	71	80	90		
	11.63	2.25	31/6	120.4	113	1.50	87	80.0	123	0.99	86	63	71	80	90		
	9.39	1.82	31/6	149.1	110	1.50	88	99.0	121	0.99	87	63	71	80	90		
	8.18	1.58	31/6	171.1	110	1.50	88	113.7	122	0.99	87	63	71	80	90		
	7.15	1.38	31/6	195.8	105	1.50	88	130.1	118	0.99	87	63	71	80	90		

	IEC - 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 asterix / Bei IEC - PAM-Verbindungen, sollten die P_{1max}-Werte nicht überschritten werden.

Tip Type Typ	i_{ges}	i_1	Z_2 / Z_1	W n_1= 700 min^{-1} f_B=1 n_2 [min^{-1}]	W n_1= 700 min^{-1} f_B≥1 M_{amax} [Nm]	W n_1= 700 min^{-1} f_B≥1 P_{1max} [kW]	W n_1= 700 min^{-1} f_B≥1 η [%]	W n_1= 465 min^{-1} f_B=1 n_2 [min^{-1}]	W n_1= 465 min^{-1} f_B≥1 M_{amax} [Nm]	W n_1= 465 min^{-1} f_B≥1 P_{1max} [kW]	W n_1= 465 min^{-1} f_B≥1 η [%]	W n_1= 250 min^{-1} f_B=1 n_2 [min^{-1}]	W n_1= 250 min^{-1} f_B≥1 M_{amax} [Nm]	W n_1= 250 min^{-1} f_B≥1 P_{1max} [kW]	W n_1= 250 min^{-1} f_B≥1 η [%]	IEC - PAM f_B ➡ 55 - 90			
PSH 2050	524.57	10.29	51/1	1.3	198	0.06	47	0.89	206	0.04	47	0.48	218	0.02	47	63*	71*		
	439.88	8.62	51/1	1.6	198	0.07	48	1.1	205	0.05	47	0.57	219	0.03	47	63*	71*		
	385.33	7.56	51/1	1.8	198	0.08	48	1.2	207	0.06	47	0.65	220	0.03	47	63*	71*		
W - IEC	341.70	6.70	51/1	2.0	199	0.09	48	1.4	208	0.06	47	0.73	221	0.04	47		71*	80*	
mm	231.43	10.29	45/2	3.0	198	0.09	66	2.0	206	0.07	66	1.1	211	0.04	65	63*	71*		
98	194.06	8.62	45/2	3.6	198	0.11	66	2.4	205	0.08	66	1.3	219	0.05	65	63	71*		
+	170.00	7.56	45/2	4.1	198	0.13	67	2.7	207	0.09	66	1.5	220	0.05	66	63	71*		
PAM	**147.90**	2.90	51/1	4.7	194	0.19	51	3.1	207	0.14	49	1.7	219	0.08	48	63	71*	80*	90*
mm	**129.82**	2.55	51/1	5.4	188	0.21	51	3.6	201	0.15	49	1.9	212	0.09	48	63	71*	80*	90*
99	**114.75**	2.25	51/1	6.1	190	0.23	52	4.1	203	0.17	50	2.2	216	0.10	48	63	71*	80*	90*
	92.73	1.82	51/1	7.5	195	0.29	53	5.0	207	0.21	51	2.7	224	0.13	49	63	71	80*	90*
	80.75	1.58	51/1	8.7	198	0.34	53	5.8	211	0.25	51	3.1	229	0.15	49	63	71	80*	90*
	65.25	2.90	45/2	10.7	186	0.30	69	7.1	199	0.22	68	3.8	210	0.13	66	63	71	80*	90*
	57.27	2.55	45/2	12.2	188	0.35	69	8.1	201	0.25	68	4.4	212	0.15	67	63	71	80*	90*
	50.63	2.25	45/2	13.8	176	0.36	70	9.2	187	0.26	68	4.9	199	0.15	67	63	71	80*	90*
	40.91	1.82	45/2	17.1	180	0.45	71	11.4	191	0.33	69	6.1	206	0.20	67	63	71	80*	90*
	35.63	1.58	45/2	19.6	183	0.53	71	13.1	195	0.39	69	7.0	211	0.23	68	63	71	80*	90*
	30.93	2.90	32/3	22.6	172	0.52	79	15.0	183	0.37	78	8.1	194	0.21	78	63	71	80*	90*
	27.15	2.55	32/3	25.8	174	0.59	80	17.1	185	0.42	79	9.2	196	0.24	78	63	71	80	90*
	24.00	2.25	32/3	29.2	176	0.67	80	19.4	187	0.48	79	10.4	199	0.28	78	63	71	80	90*
	19.39	1.82	32/3	36.1	168	0.78	81	24.0	178	0.57	79	12.9	193	0.33	78	63	71	80	90*
	16.89	1.58	32/3	41.4	141	0.75	81	27.5	151	0.54	80	14.8	164	0.33	78	63	71	80	90*
	14.77	1.38	32/3	47.4	135	0.83	81	31.5	146	0.60	80	16.9	158	0.35	79	63	71	80	90*
	13.15	2.55	31/6	53.2	134	0.75	85	35.4	141	0.50	84	19.0	139	0.27	83	63	71	80	90*
	11.63	2.25	31/6	60.2	128	0.75	85	40.0	136	0.50	85	21.5	140	0.27	84	63	71	80	90*
	9.39	1.82	31/6	74.5	128	0.75	86	49.5	135	0.50	85	26.6	137	0.27	84	63	71	80	90*
	8.18	1.58	31/6	85.6	130	0.75	86	56.8	137	0.50	85	30.6	135	0.27	84	63	71	80	90
	7.15	1.38	31/6	97.9	126	0.75	87	65.0	136	0.50	86	35.0	133	0.27	84	63	71	80	90

	IEC - 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 asterix / Bei IEC - PAM-Verbindungen, sollten die P_{1max}-Werte nicht überschritten werden.

Tip Type Typ	i_{ges}	i_1	Z_2 / Z_1	W n_1= 1400 min^{-1} f_B=1				W n_1= 930 min^{-1} f_B=1				IEC - PAM f_B ➡ 📖 55 - 90					
				n_2 [min^{-1}]	M_{amax} [Nm]	P_{1max} [kW]	η [%]	n_2 [min^{-1}]	M_{amax} [Nm]	P_{1max} [kW]	η [%]						
PSH 3063	3628.29★	71.14	51/1	0.39	380	0.03	45	0.26	387	0.02	45	63*	71*				
	2704.42★	53.03	51/1	0.52	380	0.04	46	0.34	390	0.03	45	63*	71*				
	2374.96★	46.57	51/1	0.59	380	0.05	46	0.39	391	0.04	45	63*	71*				
W - IEC	2111.40★	41.40	51/1	0.66	380	0.06	46	0.44	393	0.04	45	63*	71*				
mm	1343.24★	62.48	43/2	1.0	380	0.06	64	0.69	388	0.04	64	63*	71*				
📖 110	1140.10★	53.03	43/2	1.2	380	0.07	64	0.82	390	0.05	64	63*	71*				
+	938.40	18.40	51/1	1.5	380	0.13	47	1.0	392	0.09	46	63*	71*				
	738.56	14.48	51/1	1.9	380	0.16	48	1.3	396	0.11	47	63*	71*				
PAM	604.27	11.85	51/1	2.3	380	0.19	48	1.5	396	0.13	47	63	71*				
mm	532.19	10.44	51/1	2.6	380	0.21	49	1.7	395	0.15	47	63	71*				
📖 111	471.21	9.24	51/1	3.0	380	0.24	49	2.0	394	0.17	48	63	71*				
	395.60	18.40	43/2	3.5	380	0.21	66	2.4	392	0.15	65	63	71*				
	349.65	16.26	43/2	4.0	380	0.24	66	2.7	394	0.17	65	63	71*				
	311.35	14.48	43/2	4.5	380	0.27	66	3.0	396	0.19	66	63	71*				
	254.74	11.85	43/2	5.5	370	0.32	67	3.7	385	0.23	66	63	71*				
	224.36	10.44	43/2	6.2	370	0.36	67	4.1	384	0.25	66	63	71*				
	198.65	9.24	43/2	7.0	360	0.37	68	4.7	373	0.24	66	63	71				
	178.60	14.48	37/3	7.8	340	0.37	76	5.2	354	0.24	75	63	71				
	146.13	11.85	37/3	9.6	330	0.37	77	6.4	333	0.24	76	63	71				
	128.70	10.44	37/3	10.9	300	0.37	77	7.2	296	0.24	76	63	71				
	113.95	9.24	37/3	12.3	260	0.37	77	8.2	260	0.24	76	63	71				
	97.18	7.88	37/3	14.4	230	0.37	78	9.6	227	0.24	77	63	71				
	79.65	14.48	33/6	17.6	200	0.37	84	11.7	198	0.24	83	63	71				
	65.17	11.85	33/6	21.5	170	0.37	84	14.3	168	0.24	83	63	71				

	IEC - PAM bağlantısı yoktur / No IEC - PAM assembling on empty fields / Keine IEC - PAM-Verbindung
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Tip Type Typ	i_{ges}	i_1	Z_2 / Z_1	W n_1= 700 min^{-1} f_B=1				W n_1= 465 min^{-1} f_B=1				W n_1= 250 min^{-1} f_B=1				IEC - PAM f_B ➡ 📖 55 - 90			
				n_2 [min^{-1}]	M_{amax} [Nm]	P_{1max} [kW]	η [%]	n_2 [min^{-1}]	M_{amax} [Nm]	P_{1max} [kW]	η [%]	n_2 [min^{-1}]	M_{amax} [Nm]	P_{1max} [kW]	η [%]				
PSH 3063	3628.29*	71.14	51/1	0.19	392	0.02	45	0.13	426	0.01	45	0.07	454	0.01	45	63*	71*		
W - IEC	2704.42*	53.03	51/1	0.26	394	0.02	45	0.17	413	0.02	45	0.09	451	0.01	45	63*	71*		
mm	2374.96*	46.57	51/1	0.29	397	0.03	45	0.20	406	0.02	45	0.11	449	0.01	45	63*	71*		
📖 110	2111.40*	41.40	51/1	0.33	399	0.03	45	0.22	406	0.02	45	0.12	447	0.01	45	63*	71*		
+	1343.24*	62.48	43/2	0.52	392	0.03	64	0.35	421	0.02	64	0.19	452	0.01	64	63*	71*		
PAM	1140.10*	53.03	43/2	0.61	394	0.04	64	0.41	413	0.03	64	0.22	428	0.02	64	63*	71*		
mm	938.40	18.40	51/1	0.75	407	0.07	46	0.50	424	0.05	45	0.27	437	0.03	45	63*	71*		
📖 111	738.56	14.48	51/1	0.95	405	0.09	46	0.63	427	0.06	46	0.34	444	0.04	45	63*	71*		
	604.27	11.85	51/1	1.2	405	0.11	47	0.77	425	0.07	46	0.41	447	0.04	45	63	71*		
	532.19	10.44	51/1	1.3	406	0.12	47	0.87	423	0.08	46	0.47	448	0.05	45	63	71*		
	471.21	9.24	51/1	1.5	406	0.14	47	1.0	421	0.10	46	0.53	449	0.05	46	63	71*		
	395.60	18.40	43/2	1.8	407	0.12	65	1.2	424	0.08	64	0.63	437	0.05	64	63	71*		
	349.65	16.26	43/2	2.0	406	0.13	65	1.3	425	0.09	65	0.72	440	0.05	64	63	71*		
	311.35	14.48	43/2	2.2	405	0.14	65	1.5	427	0.10	65	0.80	444	0.06	64	63	71*		
	254.74	11.85	43/2	2.7	395	0.17	65	1.8	414	0.12	65	1.0	435	0.07	64	63	71*		
	224.36	10.44	43/2	3.1	395	0.19	66	2.1	412	0.14	65	1.1	430	0.08	64	63	71*		
	198.65	9.24	43/2	3.5	385	*0.19*	66	2.3	388	*0.12*	65	1.3	382	*0.07*	64	63	71*		
	178.60	14.48	37/3	3.9	363	*0.19*	75	2.6	382	*0.12*	75	1.4	396	*0.07*	74	63	71*		
	146.13	11.85	37/3	4.8	329	*0.19*	75	3.2	329	*0.12*	75	1.7	325	*0.07*	74	63	71*		
	128.70	10.44	37/3	5.4	292	*0.19*	75	3.6	292	*0.12*	75	1.9	288	*0.07*	74	63	71		
	113.95	9.24	37/3	6.1	260	*0.19*	76	4.1	257	*0.12*	75	2.2	257	*0.07*	75	63	71		
	97.18	7.88	37/3	7.2	224	*0.19*	76	4.8	221	*0.12*	75	2.6	221	*0.07*	75	63	71		
	79.65	14.48	33/6	8.8	198	*0.19*	83	5.8	196	*0.12*	82	3.1	196	*0.07*	82	63	71		
	65.17	11.85	33/6	10.7	168	*0.19*	83	7.1	168	*0.12*	83	3.8	166	*0.07*	82	63	71		

⋆ **İşareti belirtilen tahvil oranlarının B14 veya B5 flanşlı gövde bağlantılılar için geçerli olduğunu gösterir.**
Sign shows that this reduction ratio is valid for geared motor with B14 and B5 flange
Das Vorzeichen zeigt an, dass die angegebenen Übersetzungen für B14- oder B5-Flanschanschlüsse gültig sind.

	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 asterix / Bei IEC - PAM-Verbindungen, sollten die P_{1max}-Werte nicht überschritten werden.

Tip / Type / Typ	i_{ges}	i_1	Z_2 / Z_1	W n_1= 1400 min^{-1} f_B=1 n_2 [min^{-1}]	W n_1= 1400 min^{-1} f_B≥1 M_{amax} [Nm]	W n_1= 1400 min^{-1} f_B≥1 P_{1max} [kW]	W n_1= 1400 min^{-1} f_B≥1 η [%]	W n_1= 930 min^{-1} f_B=1 n_2 [min^{-1}]	W n_1= 930 min^{-1} f_B≥1 M_{amax} [Nm]	W n_1= 930 min^{-1} f_B≥1 P_{1max} [kW]	W n_1= 930 min^{-1} f_B≥1 η [%]	IEC - PAM f_B ➡ 55 - 90					
PSH 2063 W - IEC mm 106 + PAM mm 107	626.57★	12.29	51/1	2.2	360	0.17	48	1.5	375	0.13	47	63*	71*				
	529.13★	10.38	51/1	2.6	360	0.20	49	1.8	374	0.15	47	63	71*				
	464.67★	9.11	51/1	3.0	360	0.23	49	2.0	373	0.16	48	63	71*				
	413.10★	8.10	51/1	3.4	360	0.26	50	2.3	375	0.19	48		71*	80*			
	264.14★	12.29	43/2	5.3	350	0.29	67	3.5	349	0.19	66	63	71*				
	223.06★	10.38	43/2	6.3	360	0.35	67	4.2	374	0.25	66	63	71*				
	195.89★	9.11	43/2	7.1	360	0.39	68	4.7	373	0.27	67	63	71				
	183.60	3.60	51/1	7.6	325	0.48	54	5.1	343	0.35	52	63	71	80*	90*		
	162.27	3.18	51/1	8.6	310	0.51	55	5.7	330	0.38	52	63	71	80*	90*		
	144.50	2.83	51/1	9.7	300	0.54	56	6.4	322	0.41	53	63	71	80*	90*	100*	
	118.23	2.32	51/1	11.8	295	0.63	58	7.9	320	0.49	54	63	71	80*	90*	100*	
	104.13	2.04	51/1	13.4	295	0.70	59	8.9	322	0.55	55	63	71	80*	90*	100*	
	92.19	1.81	51/1	15.2	295	0.78	60	10.1	325	0.61	56	63	71	80	90*	100*	
	77.40	3.60	43/2	18.1	305	0.80	72	12.0	322	0.58	70	63	71	80	90*		
	68.41	3.18	43/2	20.5	295	0.87	73	13.6	314	0.64	70	63	71	80	90*		
	60.92	2.83	43/2	23.0	280	0.92	73	15.3	301	0.68	71	63	71	80	90*	100*	
	49.84	2.32	43/2	28.1	262	1.03	75	18.7	284	0.77	72	63	71	80	90*	100*	
	43.90	2.04	43/2	31.9	250	1.11	75	21.2	273	0.83	73	63	71	80	90*	100*	
	38.87	1.81	43/2	36.0	245	1.22	76	23.9	270	0.91	74	63	71	80	90*	100*	
	34.94	2.83	37/3	40.1	262	1.36	81	26.6	281	0.98	80	63	71	80	90*	100*	
	28.59	2.32	37/3	49.0	245	1.53	82	32.5	266	1.12	81	63	71	80	90	100*	
	25.18	2.04	37/3	55.6	245	1.72	83	36.9	268	1.28	81	63	71	80	90	100*	
	22.29	1.81	37/3	62.8	245	1.94	83	41.7	270	1.44	82	63	71	80	90	100*	
	19.01	1.54	37/3	73.6	215	1.97	84	48.9	240	1.50	82	63	71	80	90	100*	
	15.58	2.83	33/6	89.9	190	2.06	87	59.7	204	1.48	86	63	71	80	90	100*	
	12.75	2.32	33/6	109.8	180	*2.20*	88	72.9	195	*1.45*	87	63	71	80	90	100*	
	11.23	2.04	33/6	124.7	175	*2.20*	88	82.8	191	*1.45*	87	63	71	80	90	100*	
	9.94	1.81	33/6	140.8	170	*2.20*	89	93.6	187	*1.45*	88	63	71	80	90	100*	
	8.48	1.54	33/6	165.1	166	*2.20*	89	109.7	185	*1.45*	88	63	71	80	90	100*	
	7.40	1.35	33/6	189.2	156	*2.20*	90	125.7	176	*1.45*	88	63	71	80	90	100*	

★ **İşareti belirtilen tahvil oranlarının B14 veya B5 flanşlı gövde bağlantılılar için geçerli olduğunu gösterir.**
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Das Vorzeichen zeigt an, dass die angegebenen Übersetzungen für B14- oder B5-Flanschanschlüsse gültig sind.

	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
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Tip Type Typ	i_{ges}	i_1	Z_2 / Z_1	W n_1= 700 min^{-1} f_B=1				W n_1= 465 min^{-1} f_B=1				W n_1= 250 min^{-1} f_B=1				IEC - PAM f_B ➡ 📖 55 - 90				
				n_2 [min^{-1}]	M_{amax} [Nm]	P_{1max} [kW]	η [%]	n_2 [min^{-1}]	M_{amax} [Nm]	P_{1max} [kW]	η [%]	n_2 [min^{-1}]	M_{amax} [Nm]	P_{1max} [kW]	η [%]					
PSH 2063	626.57*	12.29	51/1	1.1	384	0.10	46	0.74	403	0.07	46	0.40	423	0.04	45	63*	71*			
	529.13*	10.38	51/1	1.3	385	0.11	47	0.88	401	0.08	46	0.47	424	0.05	45	63	71*			
	464.67*	9.11	51/1	1.5	385	0.13	47	1.0	399	0.09	46	0.54	426	0.05	46	63	71*			
W - IEC	413.10*	8.10	51/1	1.7	385	0.15	47	1.1	401	0.10	46	0.61	428	0.06	46		71*	80*		
mm	264.14*	12.29	43/2	2.7	344	0.15	65	1.8	344	0.10	65	0.95	338	0.05	64	63	71*			
📖 106	223.06*	10.38	43/2	3.1	385	0.19	66	2.1	401	0.14	65	1.1	424	0.08	64	63	71*			
+	195.89*	9.11	43/2	3.6	385	0.22	66	2.4	399	0.15	65	1.3	426	0.09	64	63	71*			
PAM	**183.60**	3.60	51/1	3.8	359	0.29	50	2.5	377	0.21	48	1.4	399	0.12	47	63	71	80*	90*	
mm	**162.27**	3.18	51/1	4.3	343	0.30	51	2.9	363	0.22	49	1.5	384	0.13	47	63	71	80*	90*	
📖 107	**144.50**	2.83	51/1	4.8	333	0.33	51	3.2	355	0.24	49	1.7	376	0.14	47	63	71	80*	90*	100*
	118.23	2.32	51/1	5.9	333	0.39	53	3.9	355	0.29	50	2.1	377	0.17	48	63	71	80*	90*	100*
	104.13	2.04	51/1	6.7	338	0.45	53	4.5	359	0.33	51	2.4	385	0.20	48	63	71	80*	90*	100*
	92.19	1.81	51/1	7.6	343	0.51	54	5.0	363	0.37	51	2.7	393	0.23	49	63	71	80*	90*	100*
	77.40	3.60	43/2	9.0	336	0.46	69	6.0	353	0.33	67	3.2	374	0.19	66	63	71	80*	90*	
	68.41	3.18	43/2	10.2	327	0.51	69	6.8	345	0.37	67	3.7	366	0.21	66	63	71	80*	90*	
	60.92	2.83	43/2	11.5	311	0.54	70	7.6	332	0.39	68	4.1	351	0.23	66	63	71	80	90*	100*
	49.84	2.32	43/2	14.0	296	0.61	71	9.3	315	0.44	69	5.0	335	0.26	67	63	71	80	90*	100*
	43.90	2.04	43/2	15.9	286	0.67	71	10.6	304	0.49	69	5.7	326	0.29	67	63	71	80	90*	100*
	38.87	1.81	43/2	18.0	285	0.75	72	12.0	301	0.54	70	6.4	327	0.33	67	63	71	80	90*	100*
	34.94	2.83	37/3	20.0	291	0.77	79	13.3	310	0.56	77	7.2	328	0.33	76	63	71	80	90*	100*
	28.59	2.32	37/3	24.5	277	0.90	79	16.3	295	0.65	78	8.7	313	0.38	76	63	71	80	90*	100*
	25.18	2.04	37/3	27.8	281	1.02	80	18.5	298	0.74	78	9.9	320	0.43	77	63	71	80	90*	100*
	22.29	1.81	37/3	31.4	285	1.17	80	20.9	301	0.83	79	11.2	327	0.50	77	63	71	80	90*	100*
	19.01	1.54	37/3	36.8	254	1.21	81	24.5	272	0.88	79	13.2	295	0.53	77	63	71	80	90	100*
	15.58	2.83	33/6	44.9	211	1.15	86	29.8	225	0.84	84	16.0	238	0.48	83	63	71	80	90	100*
	12.75	2.32	33/6	54.9	203	1.10	86	36.5	216	*0.73*	85	19.6	230	*0.40*	84	63	71	80	90	100*
	11.23	2.04	33/6	62.3	200	1.10	86	41.4	213	*0.73*	85	22.3	228	*0.40*	84	63	71	80	90	100*
	9.94	1.81	33/6	70.4	197	1.10	87	46.8	209	*0.73*	86	25.2	227	*0.40*	84	63	71	80	90	100*
	8.48	1.54	33/6	82.5	196	1.10	87	54.8	210	*0.73*	86	29.5	228	*0.40*	85	63	71	80	90	100*
	7.40	1.35	33/6	94.6	187	1.10	88	62.8	202	*0.73*	86	33.8	220	*0.40*	85	63	71	80	90	100*

★ **İşareti belirtilen tahvil oranlarının B14 veya B5 flanşlı gövde bağlantılılar için geçerli olduğunu gösterir.**
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Tip / Type / Typ	i_{ges}	i_1	Z_2 / Z_1	W n_1= 1400 min^{-1} f_B=1 n_2 [min^{-1}]	W n_1= 1400 min^{-1} f_B=1 M_{amax} [Nm]	W n_1= 1400 min^{-1} f_B=1 P_{1max} [kW]	W n_1= 1400 min^{-1} f_B=1 η [%]	W n_1= 1400 min^{-1} f_B≥1 n_2 [min^{-1}]	W n_1= 1400 min^{-1} f_B≥1 M_{amax} [Nm]	W n_1= 1400 min^{-1} f_B≥1 P_{1max} [kW]	W n_1= 1400 min^{-1} f_B≥1 η [%]	IEC - PAM f_B ➡ 53 - 67					
PSH 3080 W - IEC mm 118 + PAM mm 119	3356.08★	65.81	51/1	0.42	770	0.08	45	0.28	786	0.05	45	63*	71*				
	2658.80★	52.13	51/1	0.53	770	0.09	45	0.35	790	0.06	45	63*	71*				
	2059.27★	40.38	51/1	0.68	770	0.12	46	0.45	796	0.08	45	63*	71*				
	1199.07	23.51	51/1	1.2	770	0.21	47	0.78	804	0.14	46	63	71*				
	955.78	18.74	51/1	1.5	770	0.26	47	1.0	795	0.18	46	63	71*				
	805.70	15.80	51/1	1.7	770	0.29	48	1.2	800	0.21	47	63	71*				
	705.97	13.84	51/1	2.0	770	0.33	49	1.3	804	0.23	47	63	71*				
	631.62	12.38	51/1	2.2	770	0.36	49	1.5	802	0.27	47	63	71*				
	543.06	10.65	51/1	2.6	770	0.37	50	1.7	781	*0.24*	48	63	71				
	481.23	9.44	51/1	2.9	770	0.37	50	1.9	739	*0.24*	48	63	71				
	402.93	18.74	43/2	3.5	770	0.37	67	2.3	795	*0.24*	66	63	71				
	339.66	15.80	43/2	4.1	700	0.37	68	2.7	679	*0.24*	66	63	71				
	297.62	13.84	43/2	4.7	610	0.37	68	3.1	601	*0.24*	67	63	71				
	266.27	12.38	43/2	5.3	570	0.37	68	3.5	562	*0.24*	67	63	71				
	228.94	10.65	43/2	6.1	570	0.37	69	4.1	554	*0.24*	67	63	71				
	193.65	18.74	31/3	7.2	450	0.37	78	4.8	448	*0.24*	77	63	71				
	163.25	15.80	31/3	8.6	380	0.37	78	5.7	377	*0.24*	77	63	71				
	143.04	13.84	31/3	9.8	340	0.37	78	6.5	335	*0.24*	77	63	71				
	127.97	12.38	31/3	10.9	300	0.37	79	7.3	299	*0.24*	78	63	71				
	110.03	10.65	31/3	12.7	260	0.37	79	8.5	257	*0.24*	78	63	71				
	97.50	9.44	31/3	14.4	230	0.37	79	9.5	229	*0.24*	78	63	71				
PSH 2080 W - IEC mm 114 + PAM mm 115	656.63★	12.88	51/1	2.1	710	0.32	49	1.4	740	0.23	47	63	71*				
	520.20★	10.20	51/1	2.7	710	0.40	50	1.8	737	0.29	48		71	80*			
	402.90★	7.90	51/1	3.5	710	0.51	51	2.3	740	0.36	49		71	80*			
	276.81★	12.88	43/2	5.1	710	0.56	68	3.4	740	0.39	67	63	71				
	234.60	4.60	51/1	6.0	710	0.81	55	4.0	752	0.61	52	63	71	80	90*		
	187.00	3.67	51/1	7.5	670	0.92	57	5.0	706	0.68	54	63	71	80	90*	100*	112*
	157.64	3.09	51/1	8.9	670	1.08	58	5.9	714	0.80	55	63	71	80	90*	100*	112*
	138.13	2.71	51/1	10.1	645	1.14	60	6.7	694	0.87	56	63	71	80	90*	100*	112*
	123.58	2.42	51/1	11.3	620	1.20	61	7.5	671	0.92	57	63	71	80	90*	100*	112*
	106.25	2.08	51/1	13.2	590	1.32	62	8.8	643	1.02	58	63	71	80	90*	100*	112*
	94.15	1.85	51/1	14.9	560	1.39	63	9.9	615	1.08	59	63	71	80	90*	100*	112*
	78.83	3.67	43/2	17.8	655	1.63	75	11.8	690	1.18	72	63	71	80	90	100*	112*
	66.45	3.09	43/2	21.1	630	1.83	76	14.0	672	1.35	73	63	71	80	90	100*	112*
	58.23	2.71	43/2	24.0	600	1.96	77	16.0	646	1.46	74	63	71	80	90	100*	112*
	52.10	2.42	43/2	26.9	575	2.10	77	17.9	622	1.55	75	63	71	80	90	100*	112*
	44.79	2.08	43/2	31.3	550	2.31	78	20.8	600	1.72	76	63	71	80	90	100*	112*
	37.89	3.67	31/3	36.9	550	2.56	83	24.5	580	1.81	82	63	71	80	90	100*	112*
	31.94	3.09	31/3	43.8	525	2.87	84	29.1	560	2.08	82	63	71	80	90	100*	112*
	27.99	2.71	31/3	50.0	510	3.14	85	33.2	549	2.30	83	63	71	80	90	100	112*
	25.04	2.42	31/3	55.9	490	3.37	85	37.1	530	2.48	83	63	71	80	90	100	112*
	21.53	2.08	31/3	65.0	470	3.72	86	43.2	513	2.76	84	63	71	80	90	100	112*
	19.08	1.85	31/3	73.4	455	*4.00*	86	48.7	500	*2.64*	85	63	71	80	90	100	112
	15.97	3.09	31/6	87.7	395	*4.00*	89	58.2	421	*2.64*	88	63	71	80	90	100	112
	13.99	2.71	31/6	100.1	365	*4.00*	89	66.5	393	*2.64*	88	63	71	80	90	100	112
	12.52	2.42	31/6	111.8	345	*4.00*	90	74.3	373	*2.64*	88	63	71	80	90	100	112
	10.76	2.08	31/6	130.1	340	*4.00*	90	86.4	371	*2.64*	89	63	71	80	90	100	112
	9.54	1.85	31/6	146.8	340	*4.00*	90	97.5	374	*2.64*	89	63	71	80	90	100	112
	7.55	1.46	31/6	185.4	295	*4.00*	91	123.2	330	*2.64*	90				90	100	112

★ **İşareti belirtilen tahvil oranlarının B14 veya B5 flanşlı gövde bağlantılılar için geçerli olduğunu gösterir.** / Sign shows that this reduction ratio is valid for geared motor with B14 and B5 flange Das Vorzeichen zeigt an, dass die angegebenen Übersetzungen für B14- oder B5-Flanschanschlüsse gültig sind.

	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 asterix / Bei IEC - PAM-Verbindungen, sollten die P_{1max}-Werte nicht überschritten werden.

Tip Type Typ	i_{ges}	i_1	Z_2 / Z_1	W n_1= 700 min^{-1} f_B=1				W n_1= 465 min^{-1} f_B=1				W n_1= 250 min^{-1} f_B=1				IEC - PAM f_B ➡ 📖 53 - 67					
				n_2 [min^{-1}]	M_{amax} [Nm]	P_{1max} [kW]	η [%]	n_2 [min^{-1}]	M_{amax} [Nm]	P_{1max} [kW]	η [%]	n_2 [min^{-1}]	M_{amax} [Nm]	P_{1max} [kW]	η [%]						
PSH 3080	3356.08★	65.81	51/1	0.21	793	0.04	45	0.14	857	0.03	45	0.07	918	0.02	44	63*	71*				
W - IEC	2658.80★	52.13	51/1	0.26	800	0.05	45	0.17	835	0.03	45	0.09	912	0.02	44	63*	71*				
mm	2059.27★	40.38	51/1	0.34	809	0.06	45	0.23	823	0.04	45	0.12	905	0.03	44	63*	71*				
📖 118	1199.07	23.51	51/1	0.58	828	0.11	46	0.39	853	0.08	45	0.21	874	0.04	45	63	71*				
+	955.78	18.74	51/1	0.73	825	0.14	46	0.49	858	0.10	45	0.26	884	0.05	45	63	71*				
	805.70	15.80	51/1	0.87	823	0.16	46	0.58	862	0.11	46	0.31	894	0.06	45	63	71*				
PAM	705.97	13.84	51/1	1.0	821	0.19	46	0.66	866	0.13	46	0.35	902	0.07	45	63	71*				
mm	631.62	12.38	51/1	1.1	821	0.20	47	0.74	863	0.15	46	0.40	851	0.08	45	63	71*				
📖 119	543.06	10.65	51/1	1.3	764	0.19	47	0.86	748	0.12	46	0.46	732	*0.07*	45	63	71				
	481.23	9.44	51/1	1.5	724	0.19	47	1.0	709	0.12	46	0.52	693	*0.07*	45	63	71				
	402.93	18.74	43/2	1.7	798	0.19	66	1.2	786	0.12	65	0.62	786	*0.07*	65	63	71*				
	339.66	15.80	43/2	2.1	679	0.19	66	1.4	669	0.12	65	0.74	669	*0.07*	65	63	71				
	297.62	13.84	43/2	2.4	592	0.19	66	1.6	583	0.12	65	0.84	583	*0.07*	65	63	71				
	266.27	12.38	43/2	2.6	554	0.19	66	1.7	554	0.12	66	0.94	545	*0.07*	65	63	71				
	228.94	10.65	43/2	3.1	554	0.19	67	2.0	545	0.12	66	1.1	537	*0.07*	65	63	71				
	193.65	18.74	31/3	3.6	442	0.19	76	2.4	442	0.12	76	1.3	442	*0.07*	76	63	71				
	163.25	15.80	31/3	4.3	377	0.19	77	2.8	372	0.12	76	1.5	372	*0.07*	76	63	71				
	143.04	13.84	31/3	4.9	335	0.19	77	3.3	331	0.12	76	1.7	331	*0.07*	76	63	71				
	127.97	12.38	31/3	5.5	295	0.19	77	3.6	291	0.12	76	2.0	291	*0.07*	76	63	71				
	110.03	10.65	31/3	6.4	254	0.19	77	4.2	254	0.12	77	2.3	250	*0.07*	76	63	71				
	97.50	9.44	31/3	7.2	229	0.19	78	4.8	226	0.12	77	2.6	223	*0.07*	76	63	71				
PSH 2080	656.63★	12.88	51/1	1.1	757	0.19	47	0.71	797	0.13	46	0.38	833	0.07	45	63	71*				
W - IEC	520.20★	10.20	51/1	1.3	759	0.22	47	0.89	791	0.16	46	0.48	838	0.09	45		71	80*			
mm	402.90★	7.90	51/1	1.7	761	0.28	48	1.2	792	0.21	47	0.62	844	0.12	46		71	80*			
📖 114	276.81★	12.88	43/2	2.5	731	0.29	66	1.7	731	0.20	66	0.90	720	0.10	65	63	71				
+	**234.60**	4.60	51/1	3.0	779	0.49	50	2.0	810	0.35	48	1.1	857	0.21	47	63	71	80*	90*		
	187.00	3.67	51/1	3.7	739	0.55	52	2.5	775	0.41	49	1.3	820	0.24	47	63	71	80	90*	100*	112*
PAM	**157.64**	3.09	51/1	4.4	742	0.65	53	2.9	787	0.48	50	1.6	832	0.29	48	63	71	80	90*	100*	112*
mm	**138.13**	2.71	51/1	5.1	719	0.71	54	3.4	767	0.54	51	1.8	811	0.32	48	63	71	80	90*	100*	112*
📖 115	**123.58**	2.42	51/1	5.7	698	0.76	55	3.8	743	0.57	52	2.0	787	0.34	49	63	71	80	90*	100*	112*
	106.25	2.08	51/1	6.6	674	0.83	56	4.4	716	0.62	53	2.4	767	0.39	49	63	71	80	90*	100*	112*
	94.15	1.85	51/1	7.4	649	0.88	57	4.9	688	0.67	53	2.7	744	0.42	50	63	71	80	90*	100*	112*
	78.83	3.67	43/2	8.9	722	0.95	71	5.9	758	0.68	69	3.2	802	0.40	67	63	71	80	90*	100*	112*
	66.45	3.09	43/2	10.5	698	1.07	72	7.0	740	0.79	69	3.8	783	0.47	67	63	71	80	90*	100*	112*
	58.23	2.71	43/2	12.0	668	1.17	72	8.0	713	0.85	70	4.3	754	0.50	68	63	71	80	90	100*	112*
	52.10	2.42	43/2	13.4	647	1.24	73	8.9	689	0.92	70	4.8	730	0.54	68	63	71	80	90	100*	112*
	44.79	2.08	43/2	15.6	629	1.39	74	10.4	668	1.02	71	5.6	715	0.61	69	63	71	80	90	100*	112*
	37.89	3.67	31/3	18.5	607	1.47	80	12.3	636	1.04	79	6.6	673	0.60	77	63	71	80	90	100*	112*
	31.94	3.09	31/3	21.9	582	1.65	81	14.6	616	1.19	79	7.8	652	0.68	78	63	71	80	90	100*	112*
	27.99	2.71	31/3	25.0	568	1.81	82	16.6	606	1.32	80	8.9	641	0.77	78	63	71	80	90	100*	112*
	25.04	2.42	31/3	28.0	551	1.97	82	18.6	587	1.43	80	10.0	622	0.84	78	63	71	80	90	100*	112*
	21.53	2.08	31/3	32.5	537	2.20	83	21.6	571	1.59	81	11.6	611	0.94	79	63	71	80	90	100*	112*
	19.08	1.85	31/3	36.7	528	2.00	83	24.4	559	1.32	81	13.1	604	*0.72*	79	63	71	80	90	100	112*
	15.97	3.09	31/6	43.8	417	2.00	87	29.1	408	1.32	85	15.7	403	*0.72*	84	63	71	80	90	100	112*
	13.99	2.71	31/6	50.0	407	2.00	87	33.2	409	1.32	86	17.9	399	*0.72*	84	63	71	80	90	100	112*
	12.52	2.42	31/6	55.9	388	2.00	87	37.1	406	1.32	86	20.0	401	*0.72*	85	63	71	80	90	100	112*
	10.76	2.08	31/6	65.1	389	2.00	88	43.2	406	1.32	87	23.2	397	*0.72*	85	63	71	80	90	100	112*
	9.54	1.85	31/6	73.4	394	2.00	88	48.7	402	1.32	87	26.2	393	*0.72*	85	63	71	80	90	100	112*
	7.55	1.46	31/6	92.7	351	2.00	89	61.6	377	1.32	88	33.1	390	*0.72*	86				90	100	112*

★ **İşareti belirtilen tahvil oranlarının B14 veya B5 flanşlı gövde bağlantılılar için geçerli olduğunu gösterir.** / Sign shows that this reduction ratio is valid for geared motor with B14 and B5 flange Das Vorzeichen zeigt an, dass die angegebenen Übersetzungen für B14- oder B5-Flanschanschlüsse gültig sind.

	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 asterix / Bei IEC - PAM-Verbindungen, sollten die P_{1max}-Werte nicht überschritten werden.

Tip / Type / Typ	i_{ges}	i_1	Z_2 / Z_1	W n_1= 1400 min^{-1} f_B=1				W n_1= 930 min^{-1} f_B=1				IEC - PAM f_B ➡ 53 - 67					
				n_2 [min^{-1}]	M_{amax} [Nm]	P_{1max} [kW]	η [%]	n_2 [min^{-1}]	M_{amax} [Nm]	P_{1max} [kW]	η [%]						
PSH 3100 W - IEC mm 126 + PAM mm 127	5876.67	117.53	50/1	0.24	1590	0.09	45	0.16	1682	0.06	45	63*	71*				
	4646.67	92.93	50/1	0.30	1590	0.11	46	0.20	1612	0.08	45	63*	71*				
	3735.56	74.71	50/1	0.37	1590	0.13	46	0.25	1618	0.09	45	63*	71*				
	2201.85	44.04	50/1	0.64	1590	0.23	47	0.42	1640	0.16	46	63	71*				
	1670.37	33.41	50/1	0.84	1590	0.30	47	0.56	1657	0.21	46	63	71*				
	1506.84	30.14	50/1	0.93	1590	0.32	48	0.62	1666	0.23	47	63	71*				
	1173.93	23.48	50/1	1.2	1590	0.42	48	0.79	1661	0.29	47	63	71				
	660.00	13.20	50/1	2.1	1590	0.69	51	1.4	1659	0.50	49	63	71	80*	90*		
	519.44	10.39	50/1	2.7	1590	0.86	52	1.8	1651	0.62	50	63	71	80	90*		
	468.59	9.37	50/1	3.0	1590	0.94	53	2.0	1647	0.69	50	63	71	80	90*		
	365.06	7.30	50/1	3.8	1510	1.09	55	2.5	1580	0.80	52	63	71	80	90*		
	298.69	5.97	50/1	4.7	1510	1.33	56	3.1	1599	0.98	53	63	71	80	90*		
	257.40	13.20	39/2	5.4	1510	1.22	70	3.6	1575	0.86	69	63	71	80	90*		
	182.75	9.37	39/2	7.7	1420	*1.50*	72	5.1	1471	*0.99*	70	63	71	80			
	142.38	7.30	39/2	9.8	1310	*1.50*	74	6.5	1371	*0.99*	71	63	71	80	90		
	121.20	10.39	35/3	11.6	1190	*1.50*	80	7.7	1236	*0.99*	78	63	71	80	90		
	109.34	9.37	35/3	12.8	1190	*1.50*	80	8.5	1232	*0.99*	79	63	71	80	90		
	85.18	7.30	35/3	16.4	1080	*1.50*	81	10.9	1130	*0.99*	80	63	71	80	90		
	69.69	5.97	35/3	20.1	1080	*1.50*	82	13.3	1143	*0.99*	80	63	71	80	90		
	53.68	10.39	31/6	26.1	690	*1.50*	86	17.3	696	*0.99*	85	63	71	80	90		
PSH 2100 W - IEC mm 122 + PAM mm 123	645.00	12.90	50/1	2.2	1420	0.64	51	1.4	1481	0.44	49	71	80*	90*			
	510.00	10.20	50/1	2.7	1420	0.77	52	1.8	1474	0.56	50		80	90*			
	410.00	8.20	50/1	3.4	1355	0.89	54	2.3	1410	0.67	51			90*	100*	112*	
	303.85	6.08	50/1	4.6	1420	1.22	56	3.1	1502	0.92	53			90*			
	241.67	4.83	50/1	5.8	1420	1.49	58	3.8	1506	1.09	55	71	80	90*	100*	112*	
	183.33	3.67	50/1	7.6	1365	1.78	61	5.1	1439	1.35	57	71	80	90	100*	112*	
	165.38	3.31	50/1	8.5	1330	1.91	62	5.6	1411	1.43	58	71	80	90	100*	112*	
	128.85	2.58	50/1	10.9	1240	2.18	65	7.2	1337	1.68	60	71	80	90	100*	112*	132*
	103.85	2.08	50/1	13.5	1170	2.47	67	9.0	1276	1.91	63			90	100*	112*	132*
	94.25	4.83	39/2	14.9	1310	2.69	76	9.9	1389	1.95	74	71	80	90	100*	112*	
	71.50	3.67	39/2	19.6	1220	3.21	78	13.0	1286	2.33	75	71	80	90	100	112*	
	64.50	3.31	39/2	21.7	1190	3.42	79	14.4	1263	2.51	76	71	80	90	100	112*	
	50.25	2.58	39/2	27.9	1110	4.05	80	18.5	1197	2.97	78	71	80	90	100	112	132*
	42.78	3.67	35/3	32.7	1100	4.43	85	21.7	1159	3.17	83	71	80	90	100	112	
	38.59	3.31	35/3	36.3	1100	4.92	85	24.1	1167	3.55	83	71	80	90	100	112	
	34.29	1.76	39/2	40.8	1090	5.61	83	27.1	1202	4.26	80			90	100	112	132*
	30.06	2.58	35/3	46.6	1050	5.96	86	30.9	1132	4.36	84	71	80	90	100	112	132*
	24.23	2.08	35/3	57.8	1020	7.10	87	38.4	1112	5.26	85			90	100	112	132*
	20.52	1.76	35/3	68.2	840	6.82	88	45.3	926	5.11	86			90	100	112	132*
	18.94	3.67	31/6	73.9	720	6.19	90	49.1	721	4.21	88	71	80	90	100	112	132*
	17.09	3.31	31/6	81.9	710	6.77	90	54.4	725	4.64	89	71	80	90	100	112	132*
	16.25	1.39	35/3	86.2	750	*7.50*	89	57.2	844	*4.95*	87			90	100	112	132*
	13.31	2.58	31/6	105.2	710	*7.50*	91	69.9	712	*4.95*	89	71	80	90	100	112	132*
	10.73	2.08	31/6	130.5	725	*7.50*	91	86.7	717	*4.95*	90			90	100	112	132*
	9.09	1.76	31/6	154.0	725	*7.50*	92	102.3	717	*4.95*	91			90	100	112	132*
	7.20	1.39	31/6	194.4	680	*7.50*	92	129.2	680	*4.95*	91			90	100	112	132*

	IEC - 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 asterix / Bei IEC - PAM-Verbindungen, sollten die P_{1max}-Werte nicht überschritten werden.

Tip Type Typ	i_{ges}	i_1	Z_2 / Z_1	W n_1= 700 min^{-1} f_B=1				W n_1= 465 min^{-1} f_B=1				W n_1= 250 min^{-1} f_B=1				IEC - PAM f_B ➡ 📖 53 - 67					
				n_2 [min^{-1}]	M_{amax} [Nm]	P_{1max} [kW]	η [%]	n_2 [min^{-1}]	M_{amax} [Nm]	P_{1max} [kW]	η [%]	n_2 [min^{-1}]	M_{amax} [Nm]	P_{1max} [kW]	η [%]						
PSH 3100	5876.67	117.53	50/1	0.12	1760	0.05	45	0.08	1845	0.03	45	0.04	1913	0.02	45	63*	71*				
	4646.67	92.93	50/1	0.15	1712	0.06	45	0.10	1820	0.04	45	0.05	1907	0.02	45	63*	71*				
	3735.56	74.71	50/1	0.19	1655	0.07	45	0.12	1791	0.05	45	0.07	1900	0.03	45	63*	71*				
W - IEC	2201.85	44.04	50/1	0.32	1664	0.12	46	0.21	1690	0.08	45	0.11	1874	0.05	45	63	71*				
⟷ mm	1670.37	33.41	50/1	0.42	1690	0.16	46	0.28	1726	0.11	46	0.15	1853	0.06	45	63	71*				
📖 126	1506.84	30.14	50/1	0.46	1703	0.18	46	0.31	1743	0.12	46	0.17	1843	0.07	45	63	71*				
+	1173.93	23.48	50/1	0.60	1710	0.23	47	0.40	1762	0.16	46	0.21	1805	0.09	45	63	71				
PAM	**660.00**	13.20	50/1	1.1	1695	0.41	48	0.70	1785	0.28	47	0.38	1865	0.16	46	63	71	80*	90*		
⟷ mm	**519.44**	10.39	50/1	1.3	1698	0.47	49	0.90	1772	0.36	47	0.48	1875	0.20	46	63	71	80	90*		
📖 127	**468.59**	9.37	50/1	1.5	1700	0.54	49	1.0	1764	0.38	48	0.53	1880	0.23	46	63	71	80	90*		
	365.06	7.30	50/1	1.9	1619	0.64	50	1.3	1692	0.48	48	0.68	1800	0.27	47	63	71	80	90*		
	298.69	5.97	50/1	2.3	1642	0.78	51	1.6	1715	0.59	49	0.84	1815	0.34	47	63	71	80	90*		
	257.40	13.20	39/2	2.7	1610	0.67	68	1.8	1696	0.48	67	1.0	1771	0.27	66	63	71	80	90*		
	182.75	9.37	39/2	3.8	1518	0.75	69	2.5	1576	*0.50*	68	1.4	1679	0.27	67	63	71	80	90*		
	142.38	7.30	39/2	4.9	1405	0.75	70	3.3	1468	*0.50*	68	1.8	1562	0.27	67	63	71	80	90		
	121.20	10.39	35/3	5.8	1271	0.75	78	3.8	1326	*0.50*	77	2.1	1403	0.27	76	63	71	80	90		
	109.34	9.37	35/3	6.4	1272	0.75	78	4.3	1320	*0.50*	77	2.3	1397	0.27	76	63	71	80	90		
	85.18	7.30	35/3	8.2	1158	0.75	79	5.5	1210	*0.50*	77	2.9	1287	0.27	76	63	71	80	90		
	69.69	5.97	35/3	10.0	1174	0.75	79	6.7	1227	*0.50*	78	3.6	1298	0.27	76	63	71	80	90		
	53.68	10.39	31/6	13.0	688	0.75	84	8.7	688	*0.50*	84	4.7	680	0.27	83	63	71	80	90		
PSH 2100	645.00	12.90	50/1	1.1	1514	0.36	48	0.72	1593	0.26	47	0.39	1666	0.15	46		80*	90*			
	510.00	10.20	50/1	1.4	1517	0.45	49	0.91	1581	0.32	47	0.49	1675	0.19	46		80	90*			
	410.00	8.20	50/1	1.7	1451	0.52	50	1.1	1508	0.36	48	0.61	1609	0.22	47			90*	100*	112*	
W - IEC	303.85	6.08	50/1	2.3	1542	0.73	51	1.5	1611	0.52	49	0.82	1706	0.31	47			90*			
⟷ mm	**241.67**	4.83	50/1	2.9	1558	0.89	53	1.9	1621	0.65	50	1.0	1709	0.37	48	71	80	90*	100*	112*	
📖 122	**183.33**	3.67	50/1	3.8	1505	1.09	55	2.5	1579	0.79	52	1.4	1671	0.50	49	71	80	90	100*	112*	
+	**165.38**	3.31	50/1	4.2	1470	1.18	55	2.8	1552	0.88	52	1.5	1642	0.53	49	71	80	90	100*	112*	
PAM	**128.85**	2.58	50/1	5.4	1387	1.35	58	3.6	1479	1.03	54	1.9	1564	0.62	50	71	80	90	100*	112*	132*
	103.85	2.08	50/1	6.7	1337	1.56	60	4.5	1420	1.19	56	2.4	1521	0.75	51			90	100*	112*	132*
⟷ mm	**94.25**	4.83	39/2	7.4	1437	1.55	72	4.9	1495	1.10	70	2.7	1576	0.65	68	71	80	90	100*	112*	
📖 123	**71.50**	3.67	39/2	9.8	1345	1.89	73	6.5	1412	1.35	71	3.5	1494	0.79	69	71	80	90	100*	112*	
	64.50	3.31	39/2	10.9	1316	2.03	74	7.2	1389	1.45	72	3.9	1469	0.87	69	71	80	90	100*	112*	
	50.25	2.58	39/2	13.9	1242	2.38	76	9.3	1324	1.77	73	5.0	1400	1.05	70	71	80	90	100	112*	132*
	42.78	3.67	35/3	16.4	1213	2.57	81	10.9	1273	1.84	79	5.8	1347	1.05	78	71	80	90	100	112*	
	38.59	3.31	35/3	18.1	1216	2.81	82	12.0	1284	2.02	80	6.5	1358	1.18	78	71	80	90	100	112*	
	34.29	1.76	39/2	20.4	1269	3.48	78	13.6	1346	2.56	75	7.3	1459	1.55	72			90	100	112	132*
	30.06	2.58	35/3	23.3	1175	3.45	83	15.5	1252	2.51	81	8.3	1324	1.46	79	71	80	90	100	112	132*
	24.23	2.08	35/3	28.9	1166	4.20	84	19.2	1238	3.04	82	10.3	1326	1.81	79			90	100	112	132*
	20.52	1.76	35/3	34.1	978	4.11	85	22.7	1037	2.97	83	12.2	1125	1.80	80			90	100	112	132*
	18.94	3.67	31/6	37.0	712	3.17	87	24.6	704	2.11	86	13.2	688	1.13	84	71	80	90	100	112	132
	17.09	3.31	31/6	41.0	717	3.50	88	27.2	700	2.32	86	14.6	692	1.24	85	71	80	90	100	112	
	16.25	1.39	35/3	43.1	897	*3.75*	86	28.6	968	*2.48*	84	15.4	1051	*1.35*	81	71	80	90	100	112	132*
	13.31	2.58	31/6	52.6	712	*3.75*	89	34.9	696	*2.48*	87	18.8	680	*1.35*	85	71	80	90	100	112	132*
	10.73	2.08	31/6	65.2	709	*3.75*	89	43.3	701	*2.48*	88	23.3	685	*1.35*	86			90	100	112	132*
	9.09	1.76	31/6	77.0	709	*3.75*	90	51.2	694	*2.48*	88	27.5	678	*1.35*	86			90	100	112	132*
	7.20	1.39	31/6	97.2	680	*3.75*	91	64.6	665	*2.48*	89	34.7	650	*1.35*	87			90	100	112	132*

	IEC - PAM bağlantısı yoktur / No IEC - PAM assembling on empty fields / Keine IEC - PAM-Verbindung
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80*	**IEC - PAM bağlantısı yapılacaksa P_{1max} değerleri aşılmamalıdır -** Do not exceed the P_{1max} values indicated on fields with asterix / Bei IEC - PAM-Verbindungen, sollten die P_{1max}-Werte nicht überschritten werden.

Tip Type Typ	i_{ges}	i_1	Z_2 / Z_1	W n_1= 1400 min^{-1} f_B=1				W n_1= 930 min^{-1} f_B=1				IEC - PAM f_B ➡ 📖 53 - 67					
				n_2 [min^{-1}]	M_{amax} [Nm]	P_{1max} [kW]	η [%]	n_2 [min^{-1}]	M_{amax} [Nm]	P_{1max} [kW]	η [%]						
PSH 3125 **W - IEC** mm 📖 134 + **PAM** mm 📖 135	7095.12	150.96	47/1	0.20	3000	0.13	47	0.13	3000	0.09	47	71*	80*	90*			
	5055.49	107.56	47/1	0.28	3090	0.19	48	0.18	3222	0.13	47	71*	80*	90*			
	3442.96	73.25	47/1	0.41	3090	0.28	48	0.27	3146	0.19	48	71*	80*	90*			
	2527.75	53.78	47/1	0.55	3090	0.36	49	0.37	3168	0.26	48	71*	80*	90*			
	2057.43	43.78	47/1	0.68	3090	0.45	49	0.45	3187	0.31	48	71	80*	90*			
	1862.28	39.62	47/1	0.75	3090	0.50	49	0.50	3198	0.35	48	71	80*	90*			
	1637.95	34.85	47/1	0.85	3090	0.55	50	0.57	3215	0.39	49	71	80*	90*			
	1475.08	31.38	47/1	0.95	3090	0.61	50	0.63	3230	0.43	49	71	80*	90*			
	1198.50	25.50	47/1	1.2	3090	0.76	51	0.78	3239	0.54	49	71	80	90*			
	928.25	19.75	47/1	1.5	3090	0.93	52	1.0	3200	0.67	50		80	90*			
	793.81	16.89	47/1	1.8	3090	1.10	53	1.2	3201	0.79	51		80	90*			
	690.49	30.69	45/2	2.0	2830	0.87	68	1.3	2962	0.60	67		80	90*			
	607.31	26.99	45/2	2.3	2670	0.95	68	1.5	2805	0.66	67		80	90*			
	546.92	24.31	45/2	2.6	3090	1.22	69	1.7	3233	0.86	67		80	90*			
	444.38	19.75	45/2	3.2	2990	1.45	69	2.1	3022	0.98	68		80	90*			
	380.02	16.89	45/2	3.7	2610	1.44	70	2.4	2625	0.96	69		80	90*			
	323.00	14.39	45/2	4.3	2400	1.52	71	2.9	2332	1.03	69		80	90			
	270.16	12.01	45/2	5.2	2810	2.13	72	3.4	2926	1.49	70	71	80	90	100*	112*	
	236.72	10.52	45/2	5.9	2810	2.38	73	3.9	2918	1.70	70	71	80	90	100*	112*	
	187.50	8.33	45/2	7.5	2590	2.75	74	5.0	2694	1.96	72	71	80	90	100*	112*	
	152.34	6.77	45/2	9.2	2590	3.28	76	6.1	2721	2.38	73	71	80	90	100	112*	
	130.28	5.79	45/2	10.7	2480	3.61	77	7.1	2631	2.64	74	71	80	90	100	112*	
	110.99	4.93	45/2	12.6	2370	*4.00*	78	8.4	2514	2.64	75	71	80	90	100	112	
	86.11	8.33	31/3	16.3	1760	3.62	83	10.8	1830	2.55	81	71	80	90	100	112*	
	69.97	6.77	31/3	20.0	1560	3.89	84	13.3	1639	2.78	82	71	80	90	100	112*	
	62.60	6.06	31/3	22.4	1570	*4.00*	85	14.9	1661	2.64	83	71	80	90	100	112	

	IEC - PAM bağlantısı yoktur / No IEC - PAM assembling on empty fields / Keine IEC - PAM-Verbindung
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80*	**IEC - PAM bağlantısı yapılacaksa P_{1max} değerleri aşılmamalıdır -** Do not exceed the P_{1max} values indicated on fields with asterix / Bei IEC - PAM-Verbindungen, sollten die P_{1max}-Werte nicht überschritten werden.

Tip Type Typ	i_{ges}	i_1	Z_2 / Z_1	W n_1= 700 min^{-1} f_B=1 n_2 [min^{-1}]	M_{amax} [Nm]	P_{1max} [kW]	η [%]	W n_1= 465 min^{-1} f_B=1 n_2 [min^{-1}]	M_{amax} [Nm]	P_{1max} [kW]	η [%]	W n_1= 250 min^{-1} f_B=1 n_2 [min^{-1}]	M_{amax} [Nm]	P_{1max} [kW]	η [%]	IEC - PAM f_B ➡ 53 - 67				
PSH 3125 **W - IEC** mm 134 + **PAM** mm 135	7095.12	150.96	47/1	0.10	3000	0.07	47	0.07	3000	0.05	47	0.04	3000	0.03	47	71*	80*	90*		
	5055.49	107.56	47/1	0.14	3388	0.11	47	0.09	3569	0.07	47	0.05	3714	0.04	47	71*	80*	90*		
	3442.96	73.25	47/1	0.20	3204	0.14	47	0.14	3475	0.11	47	0.07	3691	0.06	47	71*	80*	90*		
	2527.75	53.78	47/1	0.28	3206	0.20	48	0.18	3364	0.13	47	0.10	3665	0.08	47	71	80*	90*		
	2057.43	43.78	47/1	0.34	3235	0.24	48	0.23	3286	0.17	47	0.12	3641	0.10	47	71	80*	90*		
	1862.28	39.62	47/1	0.38	3252	0.27	48	0.25	3309	0.18	47	0.13	3628	0.11	47	71	80*	90*		
	1637.95	34.85	47/1	0.43	3276	0.31	48	0.28	3342	0.20	48	0.15	3608	0.12	47	71	80*	90*		
	1475.08	31.38	47/1	0.47	3299	0.34	48	0.32	3374	0.24	48	0.17	3589	0.14	47	71	80*	90*		
	1198.50	25.50	47/1	0.58	3325	0.41	49	0.39	3420	0.29	48	0.21	3380	0.16	47	71	80*	90*		
	928.25	19.75	47/1	0.75	3315	0.53	49	0.50	3439	0.38	48	0.27	3538	0.21	48		80	90*		
	793.81	16.89	47/1	0.88	3306	0.61	50	0.59	3453	0.44	49	0.31	3571	0.24	48		80	90*		
	690.49	30.69	45/2	1.0	3027	0.48	66	0.67	3097	0.33	66	0.36	3282	0.19	65		80	90*		
	607.31	26.99	45/2	1.2	2875	0.54	67	0.77	2952	0.36	66	0.41	3063	0.20	65		80	90*		
	546.92	24.31	45/2	1.3	3324	0.68	67	0.85	3396	0.46	66	0.46	3396	0.25	66		80	90*		
	444.38	19.75	45/2	1.6	2977	0.74	67	1.0	2933	0.47	66	0.56	2933	0.26	66		80	90*		
	380.02	16.89	45/2	1.8	2587	0.72	68	1.2	2549	0.48	67	0.66	2511	0.26	66		80	90*		
	323.00	14.39	45/2	2.2	2298	0.78	68	1.4	2265	0.50	67	0.77	2231	0.27	66		80	90*		
	270.16	12.01	45/2	2.6	2998	1.18	69	1.7	3146	0.84	67	0.93	3302	0.49	66	71	80	90	100*	112*
	236.72	10.52	45/2	3.0	3001	1.37	69	2.0	3132	0.96	68	1.1	3312	0.58	66	71	80	90	100*	112*
	187.50	8.33	45/2	3.7	2772	1.53	70	2.5	2880	1.11	68	1.3	3073	0.62	67	71	80	90	100*	112*
	152.34	6.77	45/2	4.6	2786	1.89	71	3.1	2916	1.37	69	1.6	3096	0.77	67	71	80	90	100*	112*
	130.28	5.79	45/2	5.4	2705	2.12	72	3.6	2824	1.52	70	1.9	2986	0.87	68	71	80	90	100	112*
	110.99	4.93	45/2	6.3	2599	*2.00*	73	4.2	2706	*1.32*	71	2.3	2849	*0.72*	68	71	80	90	100	112*
	86.11	8.33	31/3	8.1	1884	2.00	80	5.4	1866	1.34	79	2.9	1842	0.72	78	71	80	90	100	112*
	69.97	6.77	31/3	10.0	1678	2.17	81	6.6	1756	1.52	80	3.6	1810	0.87	78	71	80	90	100	112*
	62.60	6.06	31/3	11.2	1705	*2.00*	82	7.4	1782	*1.32*	80	4.0	1810	*0.72*	78	71	80	90	100	112

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Tip Type Typ	i_{ges}	i_1	Z_2 / Z_1	W n_1= 1400 min^{-1} f_B=1				W n_1= 930 min^{-1} f_B=1				IEC - PAM f_B ➡ 📖 53 - 67					
				n_2 [min^{-1}]	M_{amax} [Nm]	P_{1max} [kW]	η [%]	n_2 [min^{-1}]	M_{amax} [Nm]	P_{1max} [kW]	η [%]						
PSH 2125 **W - IEC** mm 📖 130 + **PAM** mm 📖 131	695.60	14.80	47/1	2.0	2850	1.11	54	1.3	2968	0.79	51	90*					
	495.64	10.55	47/1	2.8	2850	1.49	56	1.9	2960	1.11	53	90*	100*	112*			
	337.55	7.18	47/1	4.1	2850	2.07	59	2.8	2985	1.56	56		100*	112*	132*		
	247.82	5.27	47/1	5.6	2760	2.61	62	3.8	2932	2.01	58				132*		
	201.71	4.29	47/1	6.9	2630	2.92	65	4.6	2781	2.23	60	90	100*	112*			
	182.58	3.88	47/1	7.7	2560	3.13	66	5.1	2700	2.36	61	90	100	112*			
	160.58	3.42	47/1	8.7	2470	3.36	67	5.8	2615	2.52	63	90	100	112*			
	144.62	3.08	47/1	9.7	2390	3.57	68	6.4	2549	2.67	64	90	100	112*	132*	160*	
	117.50	2.50	47/1	11.9	2240	3.93	71	7.9	2419	3.03	66	90	100	112*	132*	160*	
	100.48	2.14	47/1	13.9	2130	4.31	72	9.3	2319	3.32	68	90	100	112	132*	160*	
	87.40	3.88	45/2	16.0	2360	4.94	80	10.6	2489	3.59	77	90	100	112	132*		
	76.88	3.42	45/2	18.2	2290	5.39	81	12.1	2424	3.94	78	90	100	112	132*		
	69.23	3.08	45/2	20.2	2220	5.80	81	13.4	2368	4.26	78	90	100	112	132*	160*	
	56.25	2.50	45/2	24.9	2060	6.47	83	16.5	2225	4.81	80	90	100	112	132*	160*	
	48.10	2.14	45/2	29.1	1960	7.11	84	19.3	2134	5.32	81	90	100	112	132*	160*	
	40.98	1.82	45/2	34.2	1840	7.75	85	22.7	2024	5.87	82	90	100	112	132*	160*	
	35.31	3.42	31/3	39.6	1600	7.54	88	26.3	1694	5.42	86	90	100	112	132*		
	31.79	3.08	31/3	44.0	1840	9.63	88	29.3	1962	7.00	86	90	100	112	132	160*	
	25.83	2.50	31/3	54.2	1710	10.90	89	36.0	1847	8.00	87	90	100	112	132	160*	
	22.09	2.14	31/3	63.4	1610	11.88	90	42.1	1753	8.78	88	90	100	112	132	160*	
	18.82	1.82	31/3	74.4	1510	13.07	90	49.4	1661	9.66	89	90	100	112	132	160*	
	15.90	3.08	31/6	88.1	1240	12.43	92	58.5	1300	8.85	90	90	100	112	132	160*	
	14.54	1.41	31/3	96.3	1340	14.85	91	64.0	1506	11.21	90				132	160*	
	12.92	2.50	31/6	108.4	1240	*15.00*	92	72.0	1314	*9.90*	91	90	100	112	132	160	
	11.05	2.14	31/6	126.7	1240	*15.00*	93	84.2	1297	*9.90*	92	90	100	112	132	160	
	9.41	1.82	31/6	148.8	1140	*15.00*	93	98.8	1254	*9.90*	92	90	100	112	132	160	
	8.44	1.63	31/6	165.9	1140	*15.00*	93	110.2	1234	*9.90*	92				132	160	
	7.75	1.50	31/6	180.6	1010	*15.00*	93	120.0	1129	*9.90*	93				132	160	
	7.27	1.41	31/6	192.6	940	*15.00*	93	127.9	1057	*9.90*	93				132	160	

	IEC - 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 asterix / Bei IEC - PAM-Verbindungen, sollten die P_{1max}-Werte nicht überschritten werden.

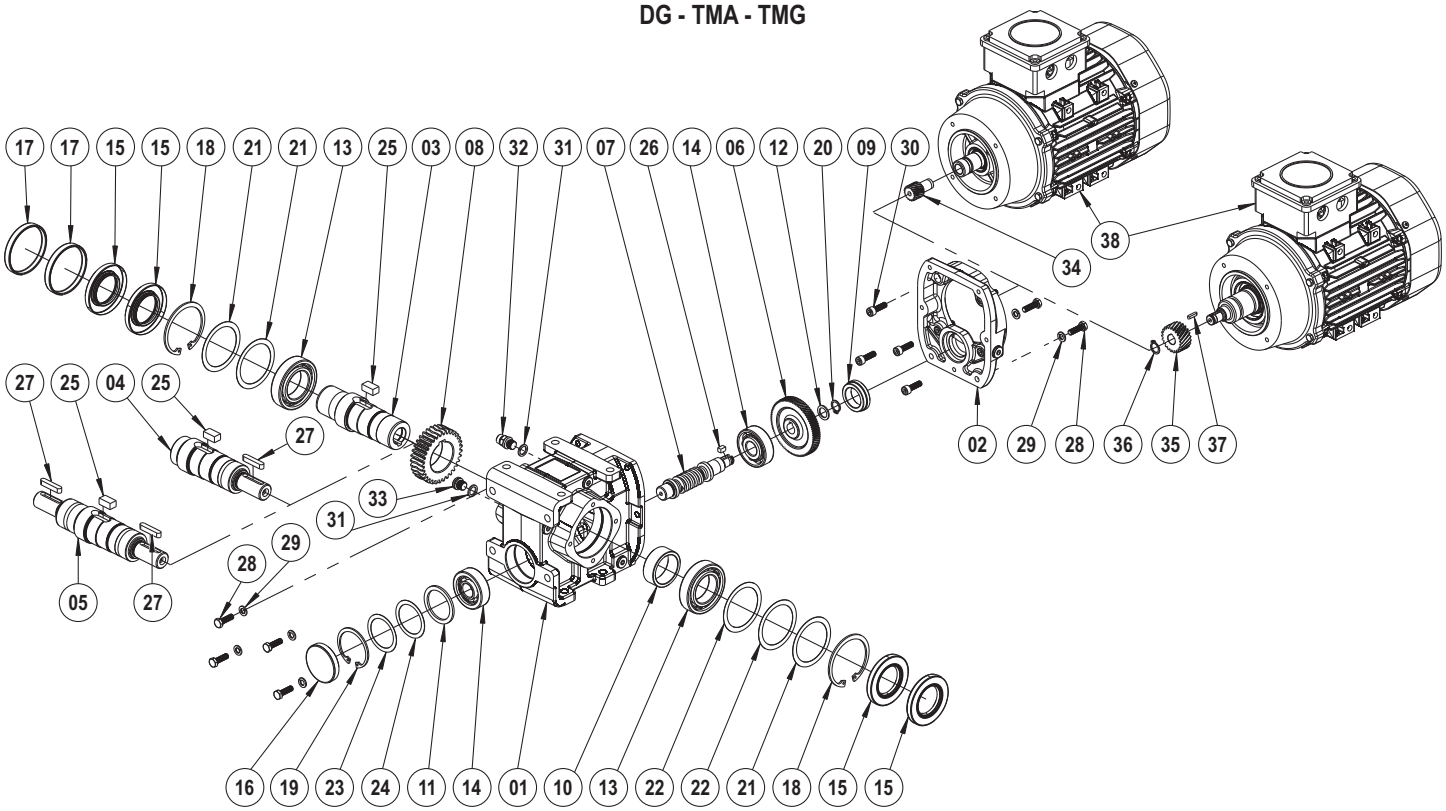
Tip Type Typ	i_{ges}	i_1	Z_2 / Z_1	W n_1= 700 min^{-1} f_B=1 n_2 [min^{-1}]	M_{amax} [Nm]	P_{1max} [kW]	η [%]	W n_1= 465 min^{-1} f_B=1 n_2 [min^{-1}]	M_{amax} [Nm]	P_{1max} [kW]	η [%]	W n_1= 250 min^{-1} f_B=1 n_2 [min^{-1}]	M_{amax} [Nm]	P_{1max} [kW]	η [%]	IEC - PAM f_B ➡ 53 - 67				
PSH 2125	695.60	14.80	47/1	1.0	3041	0.64	50	0.67	3068	0.44	49	0.36	3005	0.24	48	90*				
	495.64	10.55	47/1	1.4	3044	0.86	52	0.94	3177	0.63	50	0.50	3359	0.37	48	90*	100*	112*		
	337.55	7.18	47/1	2.1	3056	1.24	54	1.4	3196	0.92	51	0.74	3399	0.54	49		100*	112*	132*	
W - IEC	247.82	5.27	47/1	2.8	3023	1.58	56	1.9	3152	1.18	53	1.0	3322	0.70	50				132*	
mm	**201.71**	4.29	47/1	3.5	2891	1.83	58	2.3	3010	1.34	54	1.2	3186	0.78	51	90	100*	112*		
130	**182.58**	3.88	47/1	3.8	2820	1.90	59	2.5	2950	1.40	55	1.4	3122	0.88	52	90	100*	112*		
+	**160.58**	3.42	47/1	4.4	2729	2.10	60	2.9	2874	1.56	56	1.6	3041	0.98	52	90	100*	112*		
PAM	**144.62**	3.08	47/1	4.8	2648	2.18	61	3.2	2807	1.65	57	1.7	2970	1.00	53	90	100	112*	132*	160*
mm	**117.50**	2.50	47/1	6.0	2513	2.51	63	4.0	2678	1.90	59	2.1	2831	1.15	54	90	100	112*	132*	160*
131	**100.48**	2.14	47/1	7.0	2427	2.74	65	4.6	2579	2.07	60	2.5	2756	1.31	55	90	100	112*	132*	160*
	87.40	3.88	45/2	8.0	2599	2.90	75	5.3	2720	2.10	72	2.9	2878	1.27	69	90	100	112*	132*	
	76.88	3.42	45/2	9.1	2530	3.21	75	6.0	2665	2.29	73	3.3	2820	1.39	70	90	100	112	132*	
	69.23	3.08	45/2	10.1	2459	3.42	76	6.7	2608	2.51	73	3.6	2759	1.49	70	90	100	112	132*	160*
	56.25	2.50	45/2	12.4	2311	3.85	78	8.3	2462	2.85	75	4.4	2604	1.69	71	90	100	112	132*	160*
	48.10	2.14	45/2	14.6	2233	4.32	79	9.7	2373	3.17	76	5.2	2536	1.92	72	90	100	112	132*	160*
	40.98	1.82	45/2	17.1	2136	4.78	80	11.3	2263	3.48	77	6.1	2450	2.14	73	90	100	112	132*	160*
	35.31	3.42	31/3	19.8	1767	4.36	84	13.2	1862	3.14	82	7.1	1904	1.77	80	90	100	112	132*	
	31.79	3.08	31/3	22.0	2008	5.44	85	14.6	1960	3.61	83	7.9	1890	1.95	80	90	100	112	132	160*
	25.83	2.50	31/3	27.1	1918	6.33	86	18.0	1949	4.37	84	9.7	1880	2.36	81	90	100	112	132	160*
	22.09	2.14	31/3	31.7	1834	7.00	87	21.1	1917	5.04	84	11.3	1872	2.70	82	90	100	112	132	160*
	18.82	1.82	31/3	37.2	1753	7.85	87	24.7	1857	5.65	85	13.3	1829	3.11	82	90	100	112	132	160*
	15.90	3.08	31/6	44.0	1285	6.65	89	29.2	1271	4.42	88	15.7	1242	2.37	86	90	100	112	132	160*
	14.54	1.41	31/3	48.1	1599	9.05	89	32.0	1725	6.64	87	17.2	1801	3.86	84				132	160*
	12.92	2.50	31/6	54.2	1300	7.50	90	36.0	1271	4.95	88	19.3	1242	*2.70*	86	90	100	112	132	160*
	11.05	2.14	31/6	63.3	1283	7.50	91	42.1	1255	4.95	89	22.6	1226	*2.70*	87	90	100	112	132	160*
	9.41	1.82	31/6	74.4	1251	7.50	91	49.4	1238	4.95	90	26.6	1196	*2.70*	87	90	100	112	132	160*
	8.44	1.63	31/6	82.9	1220	7.50	91	55.1	1207	4.95	90	29.6	1180	*2.70*	88				132	160*
	7.75	1.50	31/6	90.3	1196	7.50	92	60.0	1207	4.95	90	32.3	1180	*2.70*	88				132	160
	7.27	1.41	31/6	96.3	1122	7.50	92	64.0	1189	4.95	91	34.4	1150	*2.70*	88				132	160

	IEC - 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 asterix / Bei IEC - PAM-Verbindungen, sollten die P_{1max}-Werte nicht überschritten werden.

TR GENEL PARÇA LİSTESİ | EN GENERAL PART LIST | DE ALLGEMEINE STUCKLISTE

PSH 2040

DG - TMA - TMG



01	Gövde	01	Gear Case	01	Gehäuse
02	Ara Bağlantı Flanşı	02	Intermediate Flange	02	Zwischenflansch
03	Çıkış Şaftı	03	Hollow Shaft	03	Hohlwelle
04	Tek Çıkış Mili	04	Output Solid Shaft	04	Abtriebswelle
05	Çift Çıkış Mili	05	Output Solid Shaft	05	Abtriebswelle
06	Z2 Dişlisi	06	Driving Gear	06	Antriebsrad
07	Z3 Dişlisi	07	Pinion Shaft	07	Ritzelwelle
08	Z4 Dişlisi	08	Driven Gear	08	Abtriebsrad
09	Baga	09	Spacer	09	Distanzbuchse
10	Burç	10	Spacer	10	Distanzbuchse
11	Rondela	11	Washer	11	Distanzscheibe
12	Rondela	12	Washer	12	Distanzscheibe
13	Rulman	13	Bearing	13	Kugellager
14	Rulman	14	Bearing	14	Kugellager
15	Yağ Keçesi	15	Oil Seal	15	Öldichtung
16	Yağ Kapağı	16	Oil Cover	16	Ölabdeckung
17	Yağ Kapağı	17	Oil Cover	17	Ölabdeckung
18	Segman (DIN 472)	18	Circlip (DIN 472)	18	Sicherungsring (DIN 472)
19	Segman (DIN 472)	19	Circlip (DIN 472)	19	Sicherungsring (DIN 472)
20	Segman (DIN 471)	20	Circlip (DIN 471)	20	Sicherungsring (DIN 471)
21	Layner	21	Shim	21	Passscheibe
22	Layner	22	Shim	22	Passscheibe
23	Layner	23	Shim	23	Passscheibe
24	Layner	24	Shim	24	Passscheibe
25	Kama	25	Key	25	Passfeder
26	Kama	26	Key	26	Passfeder
27	Kama	27	Key	27	Passfeder
28	Cıvata (DIN 933)	28	Bolt (DIN 933)	28	Verschrauben(DIN 933)
29	Rondela (DIN 127)	29	Washer (DIN 127)	29	Distanzscheibe (DIN 127)
30	Cıvata (DIN 912)	30	Bolt (DIN 912)	30	Verschrauben (DIN 912)
31	Rondela (DIN 7603)	31	Washer(DIN 7603)	31	Distanzscheibe (DIN 7603)
32	Havalandırma Tapası	32	Vent Plug	32	Entlüftungsstopfen
33	Yağ Tapası	33	Oil Plug	33	Ölstöpsel
34	Z1 Dişlisi	34	Driving Pinion	34	Antriebsritzel
35	Z1 Dişlisi (Kamalı)	35	Driving Pinion (With Key)	35	Antriebsritzel (mit Passfeder)
36	Segman (DIN 471)	36	Circlip (DIN 471)	36	Sicherungsring (DIN 471)
37	Kama	37	Key	37	Passfeder
38	Motor	38	Motor	38	Motor

TR GENEL PARÇA LİSTESİ | EN GENERAL PART LIST | DE ALLGEMEINE STUCKLISTE

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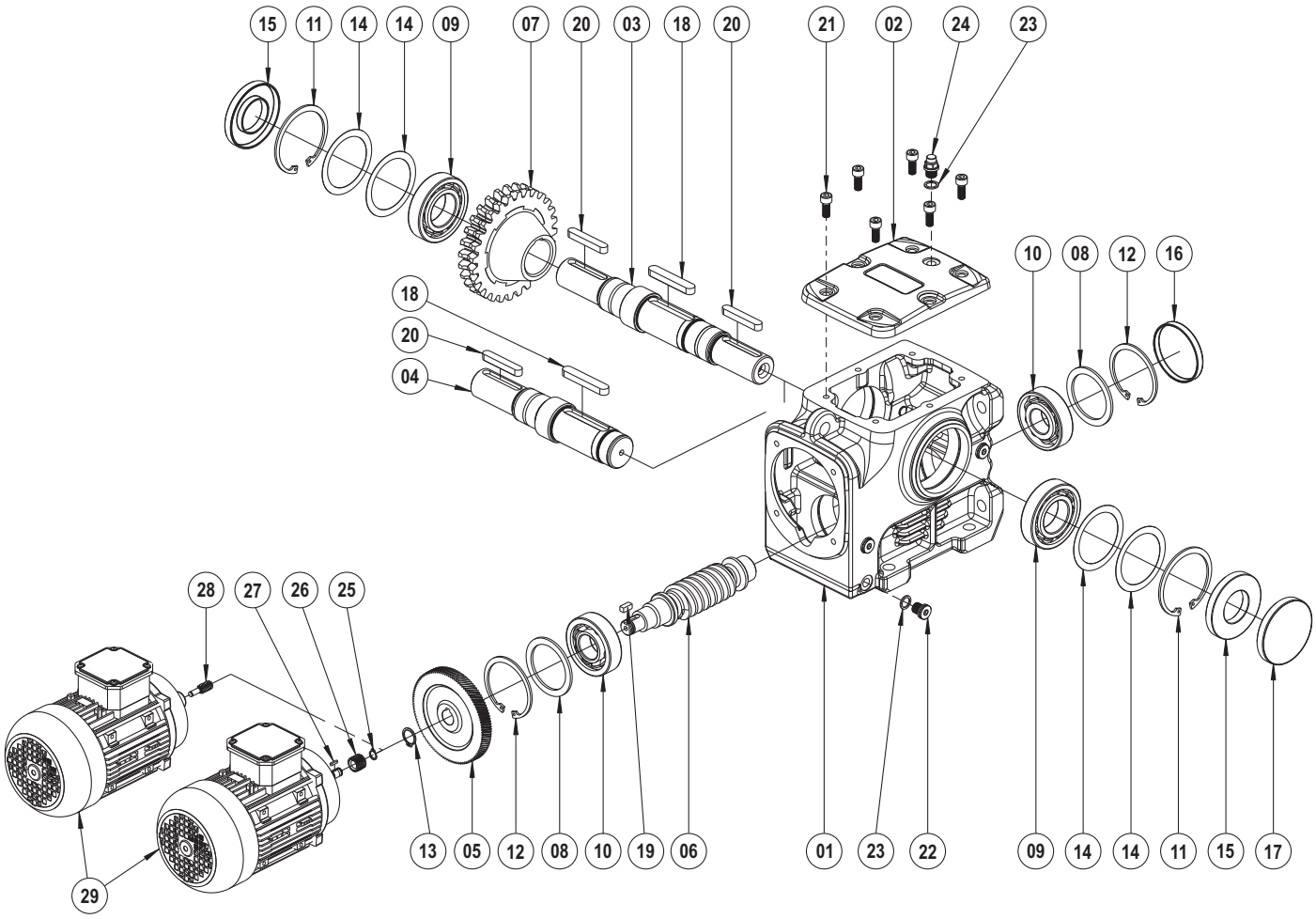
TMA - ÇMA



01	Gövde	01	Gear Case	01	Gehäuse
02	Kapak	02	Cover	02	Abdeckung
03	Çift Çıkış Mili	03	Output Solid Shaft	03	Abtriebswelle
04	Tek Çıkış Mili	04	Output Solid Shaft	04	Abtriebswelle
05	Z2 Dişlisi	05	Driving Gear	05	Antriebsrad
06	Vida	06	Screw	06	Schraube
07	Çark	07	Worm Wheel	07	Schneckenrad
08	Rondela	08	Washer	08	Distanzscheibe
09	Rulman	09	Bearing	09	Kugellager
10	Rulman	10	Bearing	10	Kugellager
11	Segman (DIN 472)	11	Circlip (DIN 472)	11	Sicherungsring (DIN 472)
12	Segman (DIN 472)	12	Circlip (DIN 472)	12	Sicherungsring (DIN 472)
13	Segman (DIN 471)	13	Circlip (DIN 471)	13	Sicherungsring (DIN 471)
14	Layner	14	Shim	14	Passscheibe
15	Yağ Keçesi	15	Oil Seal	15	Öldichtung
16	Yağ Kapağı	16	Oil Cover	16	Ölabdeckung
17	Yağ Kapağı	17	Oil Cover	17	Ölabdeckung
18	Kama	18	Key	18	Passfeder
19	Kama	19	Key	19	Passfeder
20	Kama	20	Key	20	Passfeder
21	Cıvata (DIN 912)	21	Bolt (DIN 912)	21	Verschrauben (DIN 912)
22	Yağ Tapası	22	Oil Plug	22	Ölstöpsel
23	Rondela (DIN 7603)	23	Washer (DIN 7603)	23	Distanzscheibe (DIN 7603)
24	Havalandırma Tapası	24	Vent Plug	24	Entlüftungsstopfen
25	Segman (DIN 471)	25	Circlip (DIN 471)	25	Sicherungsring (DIN 471)
26	Z1 Dişlisi (Kamalı)	26	Driving Pinion (With Key)	26	Antriebsritzel (mit Passfeder)
27	Kama	27	Key	27	Passfeder
28	Z1 Dişlisi	28	Driving Pinion	28	Antriebsritzel
29	Motor	29	Motor	29	Motor

TR GENEL PARÇA LİSTESİ | EN GENERAL PART LIST | DE ALLGEMEINE STUCKLISTE

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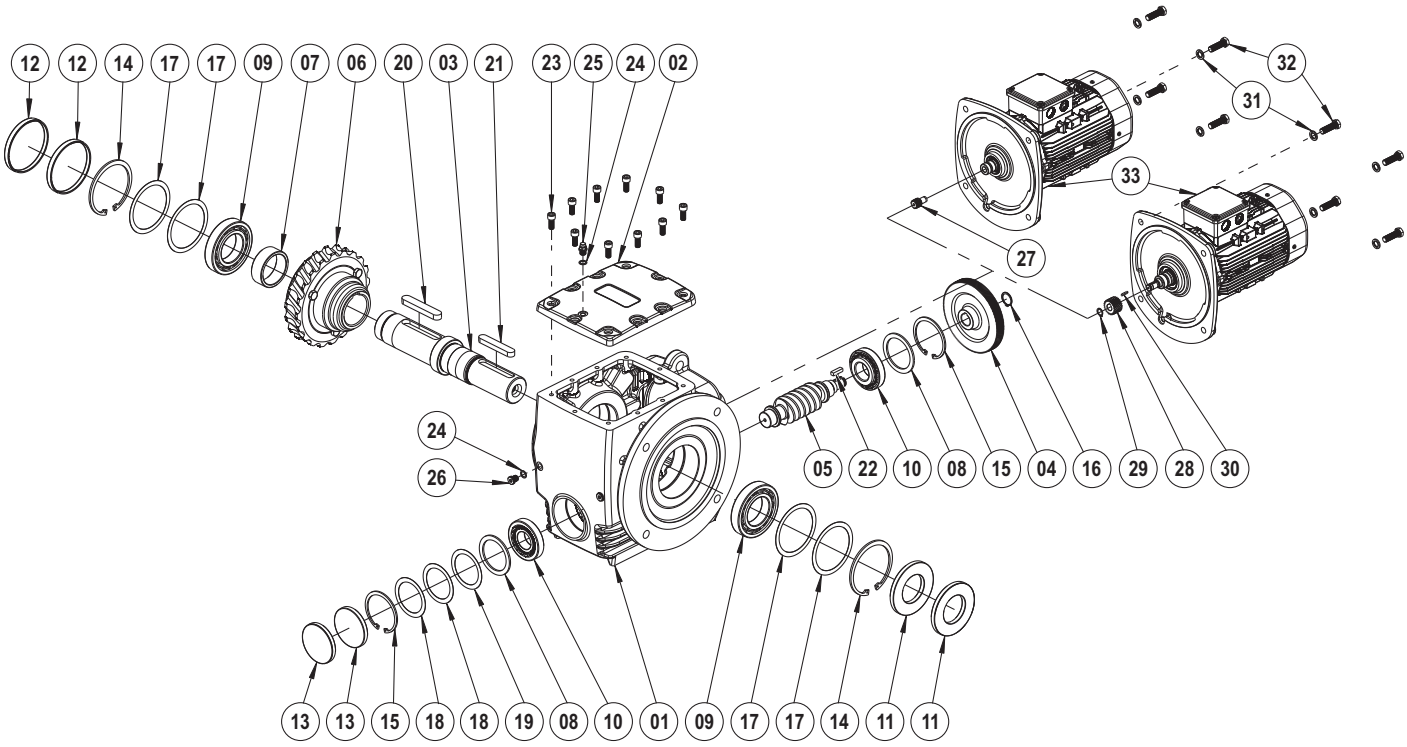
TMG - B5



01	Gövde
02	Kapak
03	Çıkış Mili
04	Z2 Dişlisi
05	Vida
06	Çark
07	Burç
08	Rondela
09	Rulman
10	Rulman
11	Yağ Keçesi
12	Yağ Kapağı
13	Yağ Kapağı
14	Segman (DIN 472)
15	Segman (DIN 472)
16	Segman (DIN 471)
17	Layner
18	Layner
19	Layner
20	Kama
21	Kama
22	Kama
23	Cıvata (DIN 912)
24	Rondela (DIN 7603)
25	Havalandırma Tapası
26	Yağ Tapası
27	Z1 Dişlisi
28	Z1 Dişlisi (Kamalı)
29	Segman (DIN 471)
30	Kama
31	Rondela (DIN 127)
32	Cıvata (DIN 933)
33	Motor

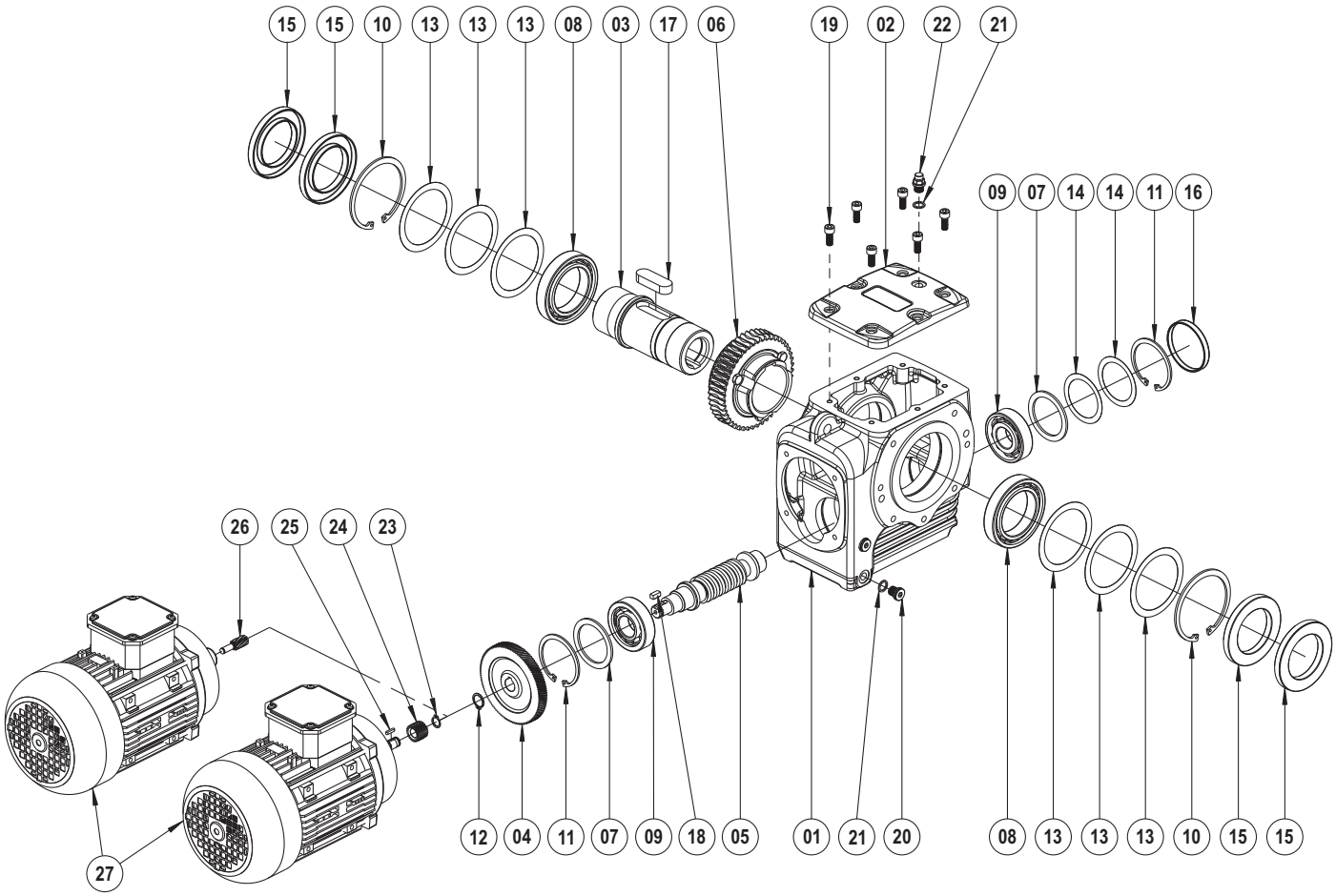
01	Gear Case
02	Cover
03	Output Solid Shaft
04	Driving Gear
05	Screw
06	Worm Wheel
07	Spacer
08	Washer
09	Bearing
10	Bearing
11	Oil Seal
12	Oil Cover
13	Oil Cover
14	Circlip (DIN 472)
15	Circlip (DIN 472)
16	Circlip (DIN 471)
17	Shim
18	Shim
19	Shim
20	Key
21	Key
22	Key
23	Bolt (DIN 912)
24	Washer (DIN 7603)
25	Vent Plug
26	Oil Plug
27	Driving Pinion
28	Driving Pinion (With Key)
29	Circlip (DIN 471)
30	Key
31	Washer (DIN 127)
32	Bolt (DIN 933)
33	Motor

01	Gehäuse
02	Abdeckung
03	Abtriebswelle
04	Antriebsrad
05	Schraube
06	Schneckenrad
07	Distanzbuchse
08	Distanzscheibe
09	Kugellager
10	Kugellager
11	Öldichtung
12	Ölabdeckung
13	Ölabdeckung
14	Sicherungsring (DIN 472)
15	Sicherungsring (DIN 472)
16	Sicherungsring (DIN 471)
17	Passscheibe
18	Passscheibe
19	Passscheibe
20	Passfeder
21	Passfeder
22	Passfeder
23	Verschrauben (DIN 912)
24	Distanzscheibe (DIN 7603)
25	Entlüftungsstopfen
26	Ölstöpsel
27	Antriebsritzel
28	Antriebsritzel (mit Passfeder)
29	Sicherungsring (DIN 471)
30	Passfeder
31	Distanzscheibe (DIN 7603)
32	Verschrauben (DIN 933)
33	Motor

TR GENEL PARÇA LİSTESİ | EN GENERAL PART LIST | DE ALLGEMEINE STUCKLISTE

PSH 2050 ... 2125

DG



01	Gövde	01	Gear Case	01	Gehäuse
02	Kapak	02	Cover	02	Abdeckung
03	Çıkış Şaftı	03	Hollow Shaft	03	Hohlwelle
04	Z2 Dişlisi	04	Driving Gear	04	Antriebsrad
05	Vida	05	Screw	05	Schraube
06	Çark	06	Worm Wheel	06	Schneckenrad
07	Rondela	07	Washer	07	Distanzscheibe
08	Rulman	08	Bearing	08	Kugellager
09	Rulman	09	Bearing	09	Kugellager
10	Segman (DIN 472)	10	Circlip (DIN 472)	10	Sicherungsring (DIN 472)
11	Segman (DIN 472)	11	Circlip (DIN 472)	11	Sicherungsring (DIN 472)
12	Segman (DIN 471)	12	Circlip (DIN 471)	12	Sicherungsring (DIN 471)
13	Layner	13	Shim	13	Passscheibe
14	Layner	14	Shim	14	Passscheibe
15	Yağ Keçesi	15	Oil Seal	15	Öldichtung
16	Yağ Kapağı	16	Oil Cover	16	Ölabdeckung
17	Kama	17	Key	17	Passfeder
18	Kama	18	Key	18	Passfeder
19	Cıvata (DIN 912)	19	Bolt (DIN 912)	19	Verschrauben (DIN 912)
20	Yağ Tapası	20	Oil Plug	20	Ölstöpsel
21	Rondela (DIN 7603)	21	Washer (DIN 7603)	21	Distanzscheibe (DIN 7603)
22	Havalandırma Tapası	22	Vent Plug	22	Entlüftungsstopfen
23	Segman (DIN 471)	23	Circlip (DIN 471)	23	Sicherungsring (DIN 471)
24	Z1 Dişlisi (Kamalı)	24	Driving Pinion (With Key)	24	Antriebsritzel (mit Passfeder)
25	Kama	25	Key	25	Passfeder
26	Z1 Dişlisi	26	Driving Pinion	26	Antriebsritzel
27	Motor	27	Motor	27	Motor

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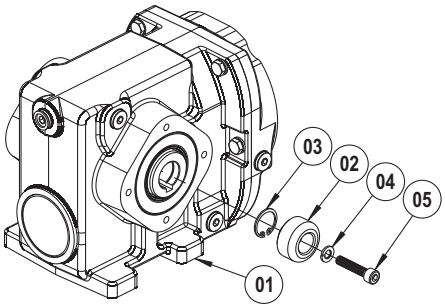
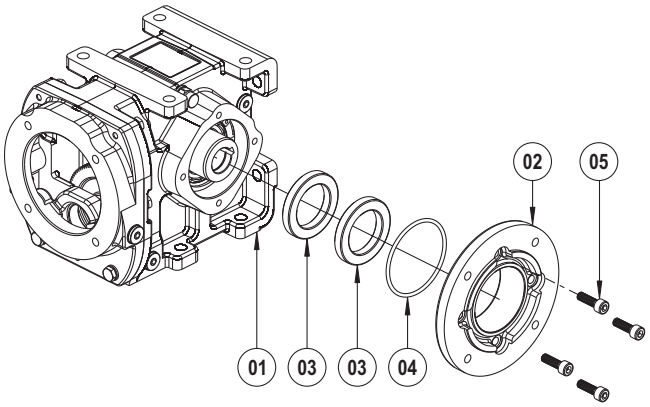
Aksesuarlar / Accessories / Zubehör



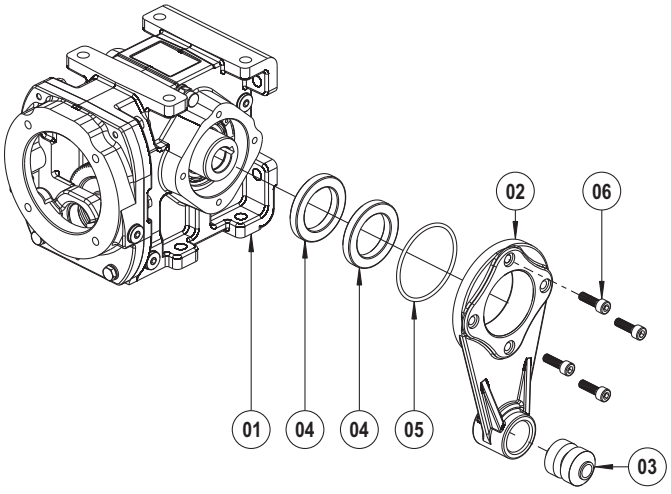
Çektirme (Ç) / Puller / Befestigungsbausatz ;

01	PSH Montajlı Redüktör	PSH Mounted Gear Unit	PSH Montiertes Getriebe
02	Çektirme Rondelası	Puller Washer	Abziehscheibe
03	Segman (DIN 472)	Circlip (DIN 472)	Sicherungsring (DIN 472)
04	Rondela (DIN 127)	Washer (DIN 127)	Distanzscheibe (DIN 127)
05	Cıvata (DIN 912)	Bolt (DIN 912)	Verschrauben (DIN 912)



B5 Çıkış Flanşı / B5 Output Flange / B5 Abtriebsflansch;

01	PSH Montajlı Redüktör	PSH Mounted Gear Unit	PSH Montiertes Getriebe
02	B5 Çıkış Flanşı	B5 Output Flange	B5 Abtriebsflansch
03	Yağ Keçesi	Oil Seal	Öldichtung
04	O-Ring	O-Ring	O-Ring
05	Cıvata (DIN 912)	Bolt (DIN 912)	Verschrauben (DIN 912)



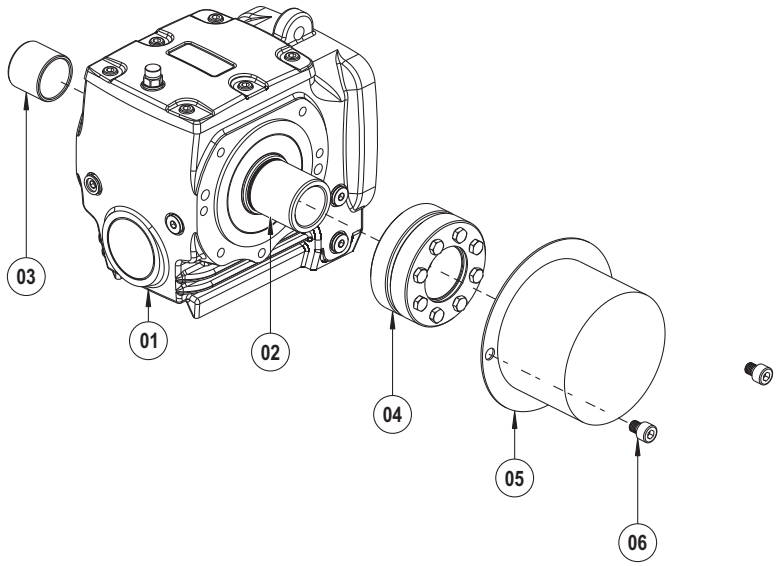
Tork Kolu (TK) / Torque Arm / Drehmomentstütze;

01	PSH Montajlı Redüktör	PSH Mounted Gear Unit	PSH Montiertes Getriebe
02	Tork Kolu	Torque Arm	Drehmomentstütze
03	Lastik Takoz	Rubber Buffer	Gummipuffer
04	Yağ Keçesi	Oil Seal	Öldichtung
05	O-Ring	O-Ring	O-Ring
06	Cıvata (DIN 912)	Bolt (DIN 912)	Verschrauben (DIN 912)

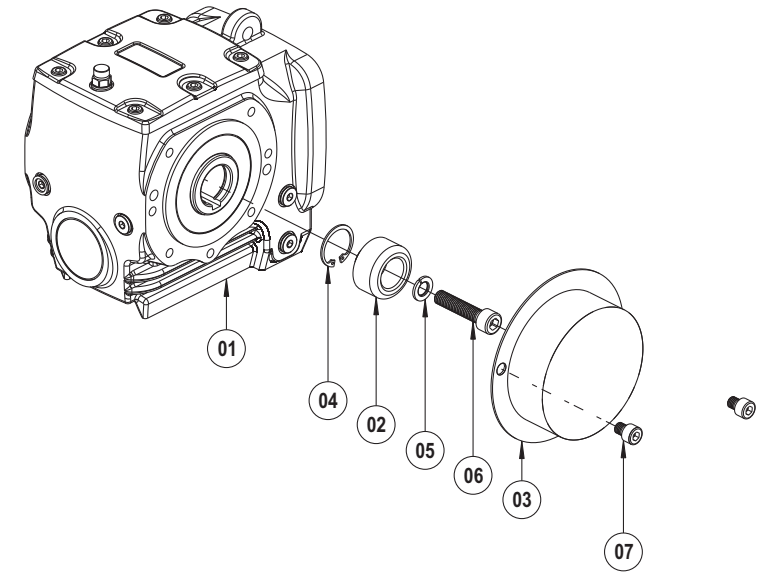
TR GENEL PARÇA LİSTESİ | EN GENERAL PART LIST | DE ALLGEMEINE STUCKLISTE

PSH 2050 ... 2125

Aksesuarlar / Accessories / Zubehör



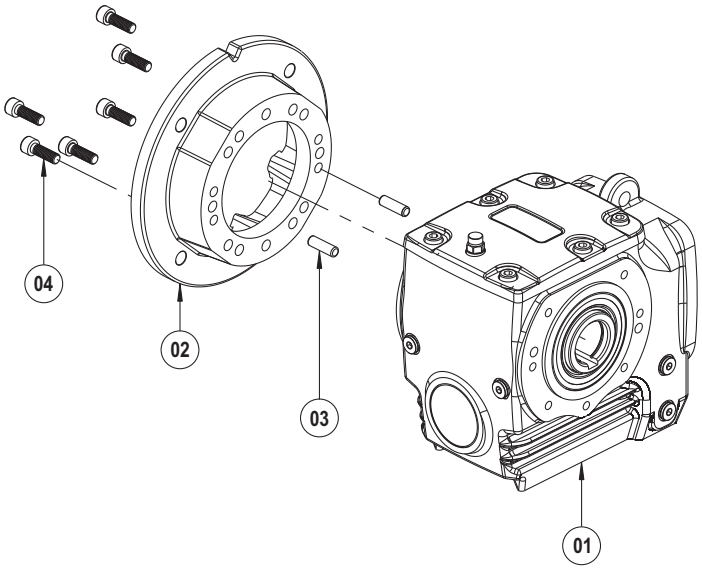
Konik Sıktırma, (KS) Koruma Kapağı (KK)	Shrink Disk, Protection Cover;	Schrumpfscheibe, Schutzkappe;
01 PSH Montajlı Redüktör	PSH Mounted Gear Unit	PSH Montiertes Getriebe
02 Konik Sıktırma Şaftı	Shrink Disk Hollow Shaft	Schrumpfscheibe Hohlwelle
03 Konik Sıktırma Burcu	Shrink Disk Bushing	Schrumpfscheibenbuchse
04 Konik Sıktırma	Shrink Disk	Schrumpfscheibe
05 Konik Sıktırma Koruma Kapağı	Shrink Disk Cover	Schrumpfscheibedeckel
06 Cıvata (DIN 912)	Bolt (DIN 912)	Verschrauben (DIN 912)



Çektirme, (Ç) Koruma Kapağı (KK)	Puller, Protection Cover;	Befestigungsbausatz, Schutzkappe;
01 PSH Montajlı Redüktör	PSH Mounted Gear Unit	PSH Montiertes Getriebe
02 Çektirme Rondelası	Puller Washer	Abziehscheibe
03 Şaft Koruma Kapağı	Protection Cover	Schutzhülle
04 Segman (DIN 472)	Circlip (DIN 472)	Sicherungsring (DIN 472)
05 Rondela (DIN 127)	Washer (DIN 127)	Distanzscheibe (DIN 127)
06 Cıvata (DIN 912)	Bolt (DIN 912)	Verschrauben (DIN 912)
07 Cıvata (DIN 912)	Bolt (DIN 912)	Verschrauben (DIN 912)

PSH 2050 ... 2125

Aksesuarlar / Accessories / Zubehör



B5 Çıkış Flanşı

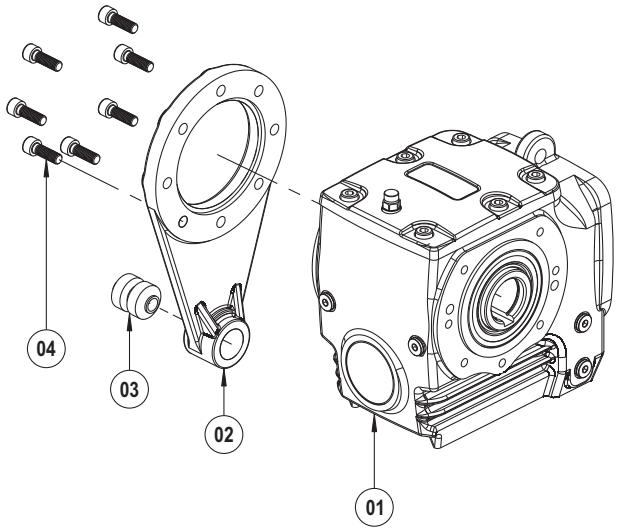
01 PSH Montajlı Redüktör
02 B5 Çıkış Flanşı
03 Pim
04 Cıvata (DIN 912)

B5 Output Flange

PSH Mounted Gear Unit
B5 Output Flange
Pin
Bolt (DIN 912)

B5 Abtriebsflansch

PSH Montiertes Getriebe
B5 Abtriebsflansch
Bolzen
Verschrauben (DIN 912)



Tork Kolu (TK)

01 PSH Montajlı Redüktör
02 Tork Kolu
03 Lastik Takoz
04 Cıvata (DIN 912)

Torque Arm

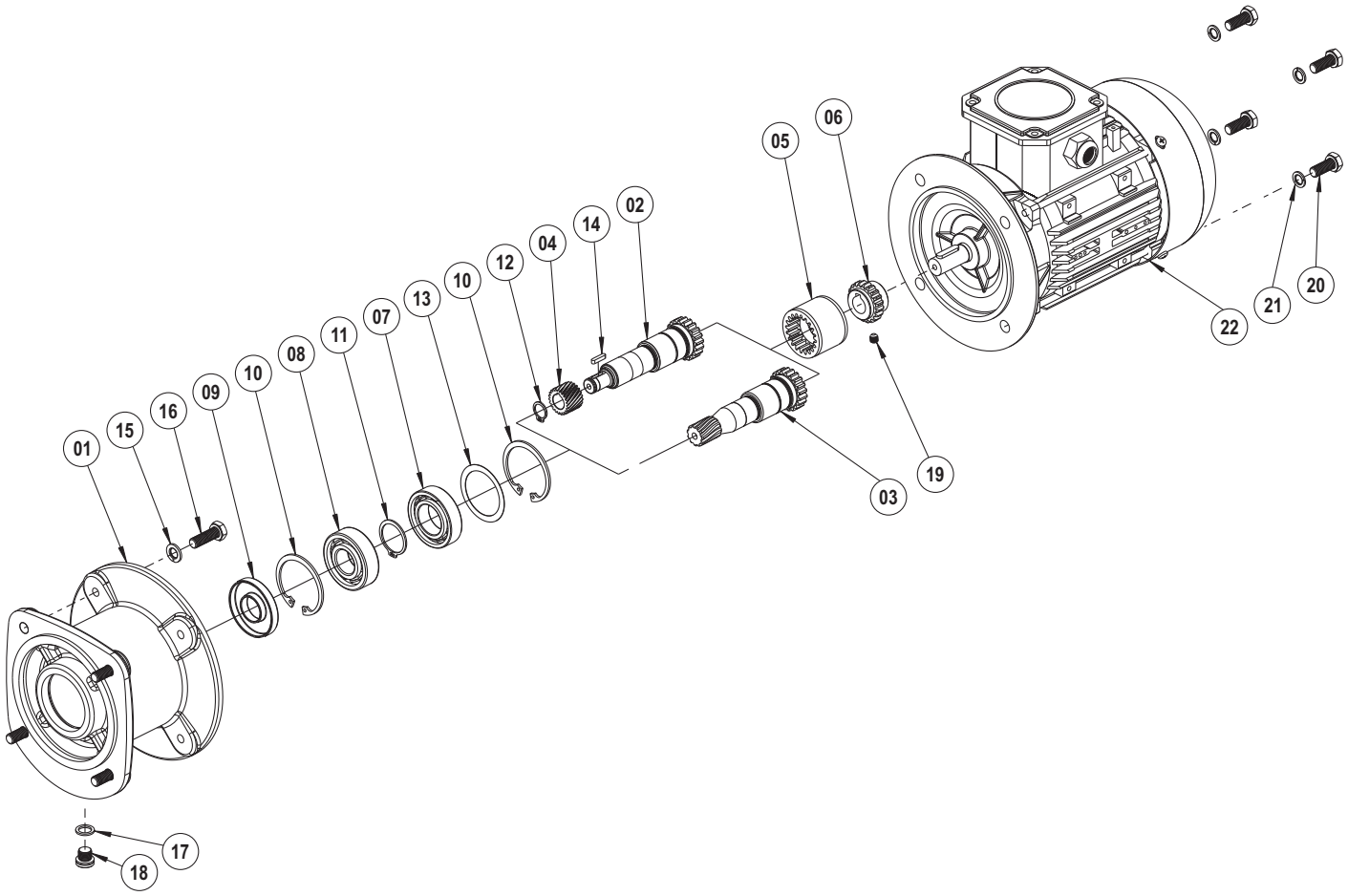
PSH Mounted Gear Unit
Torque Arm
Rubber Buffer
Bolt (DIN 912)

Drehmomentstütze

PSH Montiertes Getriebe
Drehmomentstütze
Gummipuffer
Verschrauben (DIN 912)

TR GENEL PARÇA LİSTESİ | EN GENERAL PART LIST | DE ALLGEMEINE STUCKLISTE

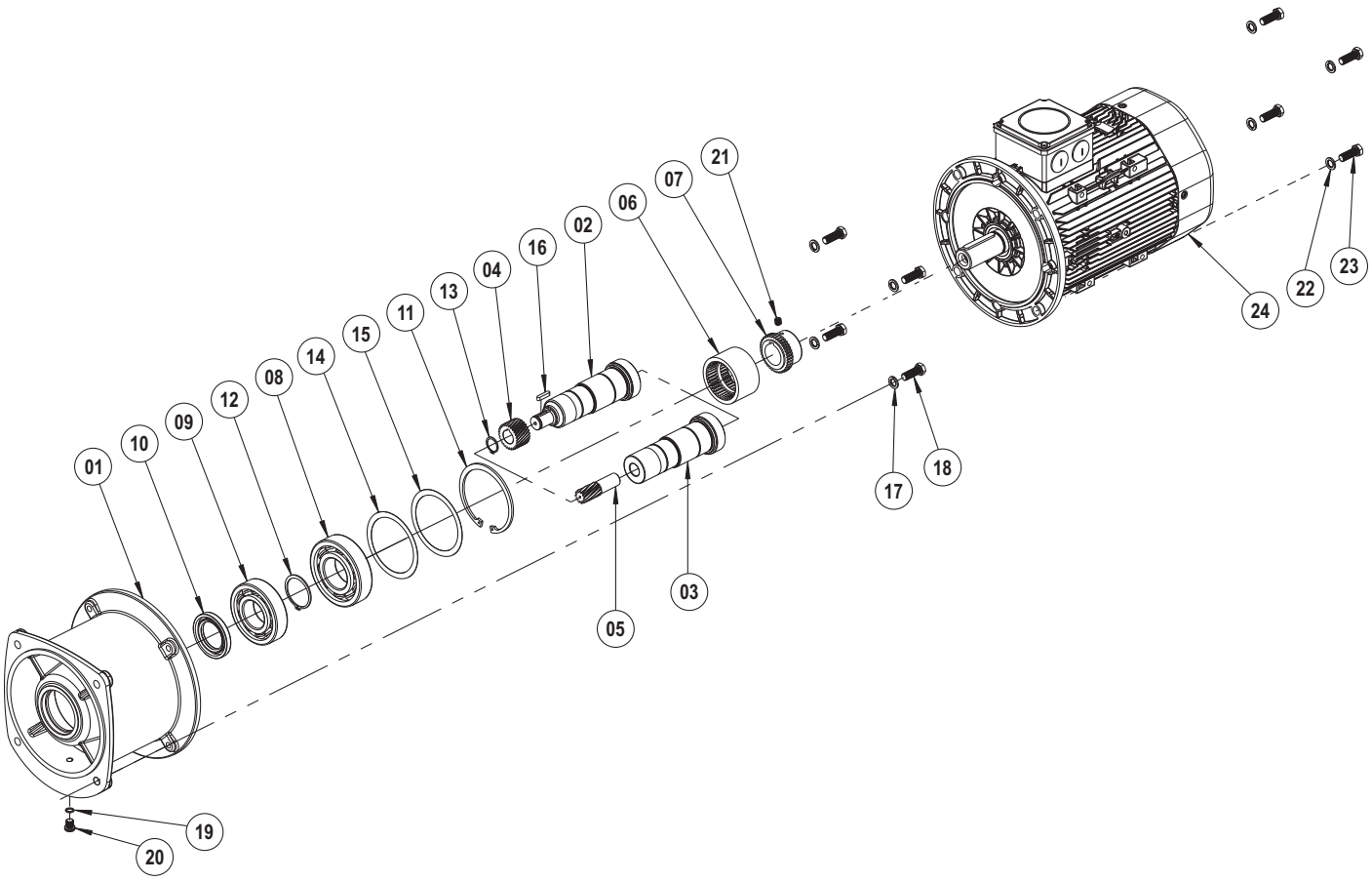
IEC 63 ... 112



01	Gövde	Gear Case	Gehäuse
02	IEC Mili (Kamalı)	IEC Shaft (With Key)	IEC Welle (mit Passfeder)
03	IEC Mili (Dişlili)	IEC Shaft (With Gear)	IEC Welle (mit Zahnrad)
04	Z1 Dişlisi (Kamalı)	Driving Pinion (With Key)	Antriebsritzel (mit Passfeder)
05	Plastik Kaplin	Plastic Coupling	Kupplung (Plastik)
06	Metal Kaplin	Metal Coupling	Kupplung (Metall)
07	Rulman	Bearing	Kugellager
08	Rulman	Bearing	Kugellager
09	Yağ Keçesi	Oil Seal	Öldichtung
10	Segman (DIN 472)	Circlip (DIN 472)	Sicherungsring (DIN 472)
11	Segman (DIN 471)	Circlip (DIN 471)	Sicherungsring (DIN 471)
12	Segman (DIN 471)	Circlip (DIN 471)	Sicherungsring (DIN 471)
13	Layner	Shim	Passscheibe
14	Kama	Key	Passfeder
15	Rondela (DIN 127)	Washer (DIN 127)	Distanzscheibe (DIN 127)
16	Cıvata (DIN 933)	Bolt (DIN 933)	Verschrauben (DIN 933)
17	Rondela (DIN 7603)	Washer (DIN 7603)	Distanzscheibe (DIN 7603)
18	Yağ Tapası	Oil Plug	Ölstöpsel
19	Cıvata (DIN 916)	Bolt (DIN 916)	Verschrauben (DIN 916)
20	Cıvata (DIN 933)	Bolt (DIN 933)	Verschrauben (DIN 933)
21	Rondela (DIN 127)	Washer (DIN 127)	Distanzscheibe (DIN 127)
22	Motor	Motor	Motor

TR GENEL PARÇA LİSTESİ | EN GENERAL PART LIST | DE ALLGEMEINE STUCKLISTE

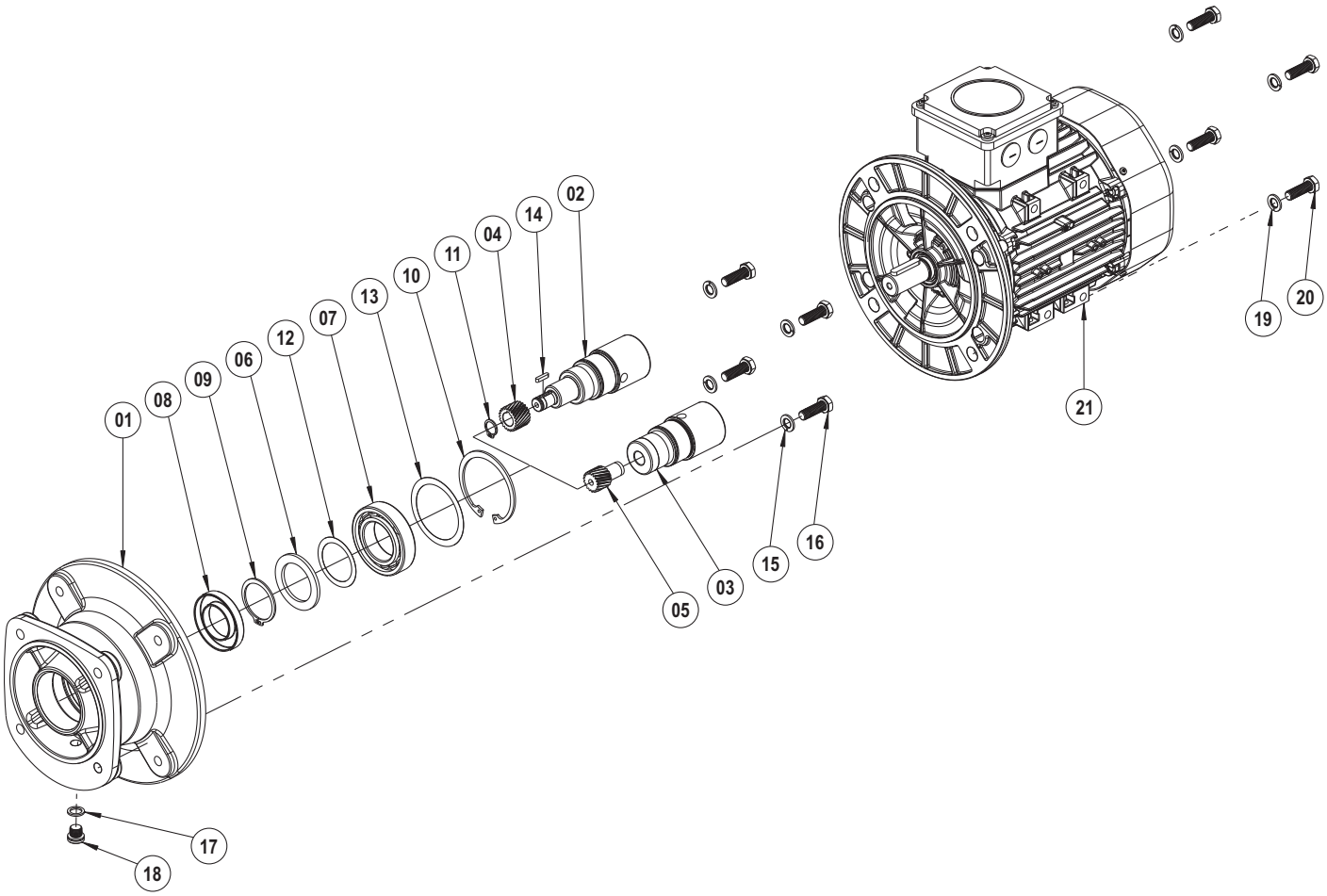
IEC 132 ... 160



01	Gövde	Gear Case	Gehäuse
02	IEC Mili (Kamalı)	IEC Shaft (With Key)	IEC Welle (mit Passfeder)
03	IEC Mili	IEC Shaft	IEC Welle
04	Z1 Dişlisi (Kamalı)	Driving Pinion (With Key)	Antriebsritzel (mit Passfeder)
05	Z1 Dişlisi	Driving Pinion	Antriebsritzel
06	Plastik Kaplin	Plastic Coupling	Kupplung (Plastik)
07	Metal Kaplin	Metal Coupling	Kupplung (Metall)
08	Rulman	Bearing	Kugellager
09	Rulman	Bearing	Kugellager
10	Yağ Keçesi	Oil Seal	Öldichtung
11	Segman (DIN 472)	Circlip (DIN 472)	Sicherungsring (DIN 472)
12	Segman (DIN 471)	Circlip (DIN 471)	Sicherungsring (DIN 471)
13	Segman (DIN 471)	Circlip (DIN 471)	Sicherungsring (DIN 471)
14	Layner	Shim	Passscheibe
15	Layner	Shim	Passscheibe
16	Kama	Key	Passfeder
17	Rondela (DIN 127)	Washer (DIN 127)	Distanzscheibe (DIN 127)
18	Cıvata (DIN 933)	Bolt (DIN 933)	Verschrauben (DIN 933)
19	Rondela (DIN 7603)	Washer (DIN 7603)	Distanzscheibe (DIN 7603)
20	Yağ Tapası	Oil Plug	Ölstöpsel
21	Cıvata (DIN 916)	Bolt (DIN 916)	Verschrauben (DIN 916)
22	Rondela (DIN 127)	Washer (DIN 127)	Distanzscheibe (DIN 127)
23	Cıvata (DIN 933)	Bolt (DIN 933)	Verschrauben (DIN 933)
24	Motor	Motor	Motor

TR GENEL PARÇA LİSTESİ | EN GENERAL PART LIST | DE ALLGEMEINE STUCKLISTE

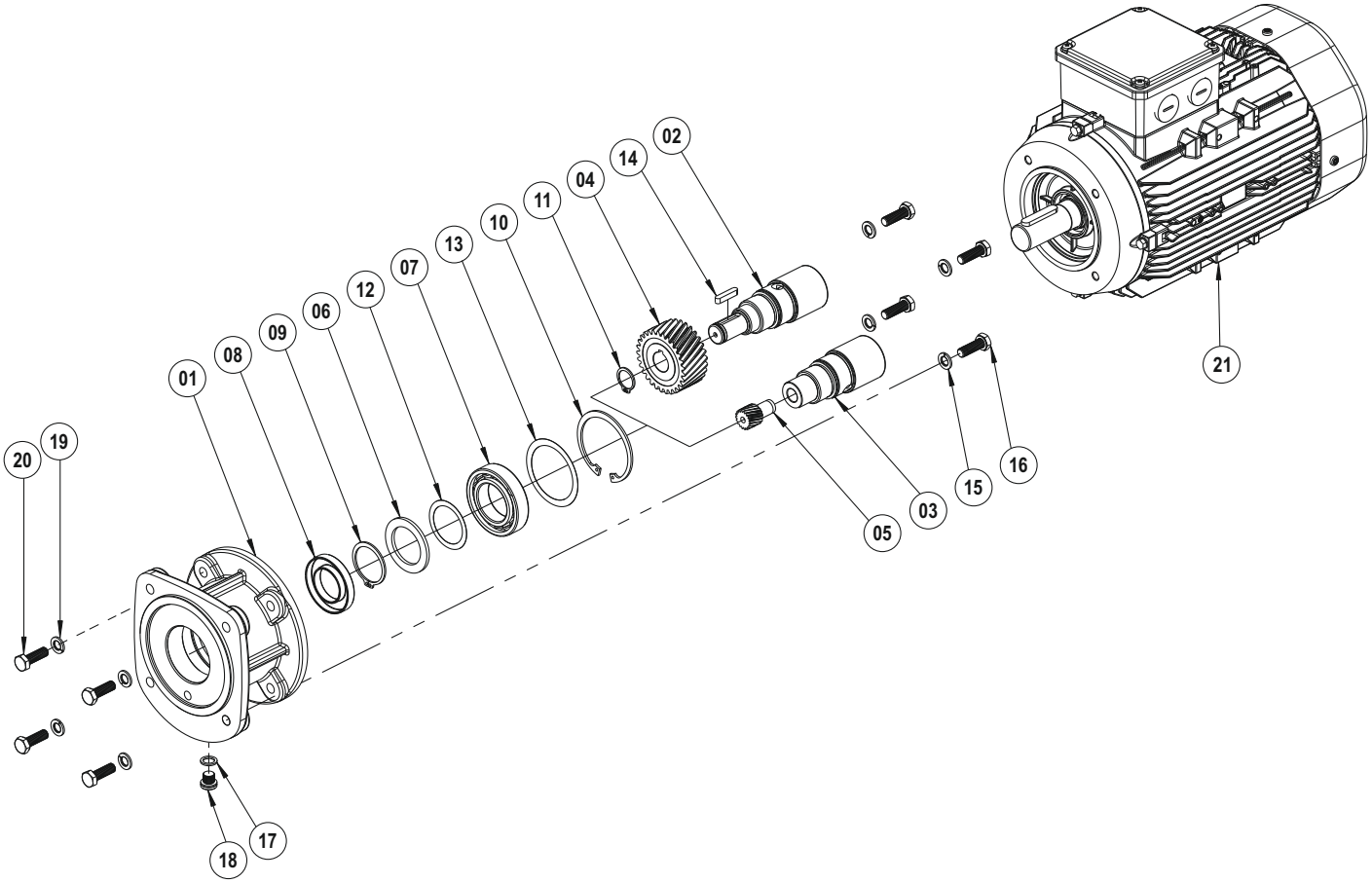
PAM B5 / 63 ... 315



01	Gövde	Gear Case	Gehäuse
02	PAM Mili (Kamalı)	PAM Shaft (With Key)	PAM Welle (mit Passfeder)
03	PAM Mili	PAM Shaft	PAM Welle
04	Z1 Dişlisi (Kamalı)	Driving Pinion (With Key)	Antriebsritzel (mit Passfeder)
05	Z1 Dişlisi	Driving Pinion	Antriebsritzel
06	Rondela	Washer	Distanzscheibe
07	Rulman	Bearing	Kugellager
08	Yağ Keçesi	Oil Seal	Öldichtung
09	Segman (DIN 471)	Circlip (DIN 471)	Sicherungsring (DIN 471)
10	Segman (DIN 472)	Circlip (DIN 472)	Sicherungsring (DIN 472)
11	Segman (DIN 471)	Circlip (DIN 471)	Sicherungsring (DIN 471)
12	Layner	Shim	Passscheibe
13	Layner	Shim	Passscheibe
14	Kama	Key	Passfeder
15	Rondela (DIN 127)	Washer (DIN 127)	Distanzscheibe (DIN 127)
16	Cıvata (DIN 933)	Bolt (DIN 933)	Verschrauben (DIN 933)
17	Rondela (DIN 7603)	Washer (DIN 7603)	Distanzscheibe (DIN 7603)
18	Yağ Tapası	Oil Plug	Ölstöpsel
19	Rondela (DIN 127)	Washer (DIN 127)	Distanzscheibe (DIN 127)
20	Cıvata (DIN 933)	Bolt (DIN 933)	Verschrauben (DIN 933)
21	Motor	Motor	Motor

TR GENEL PARÇA LİSTESİ | EN GENERAL PART LIST | DE ALLGEMEINE STUCKLISTE

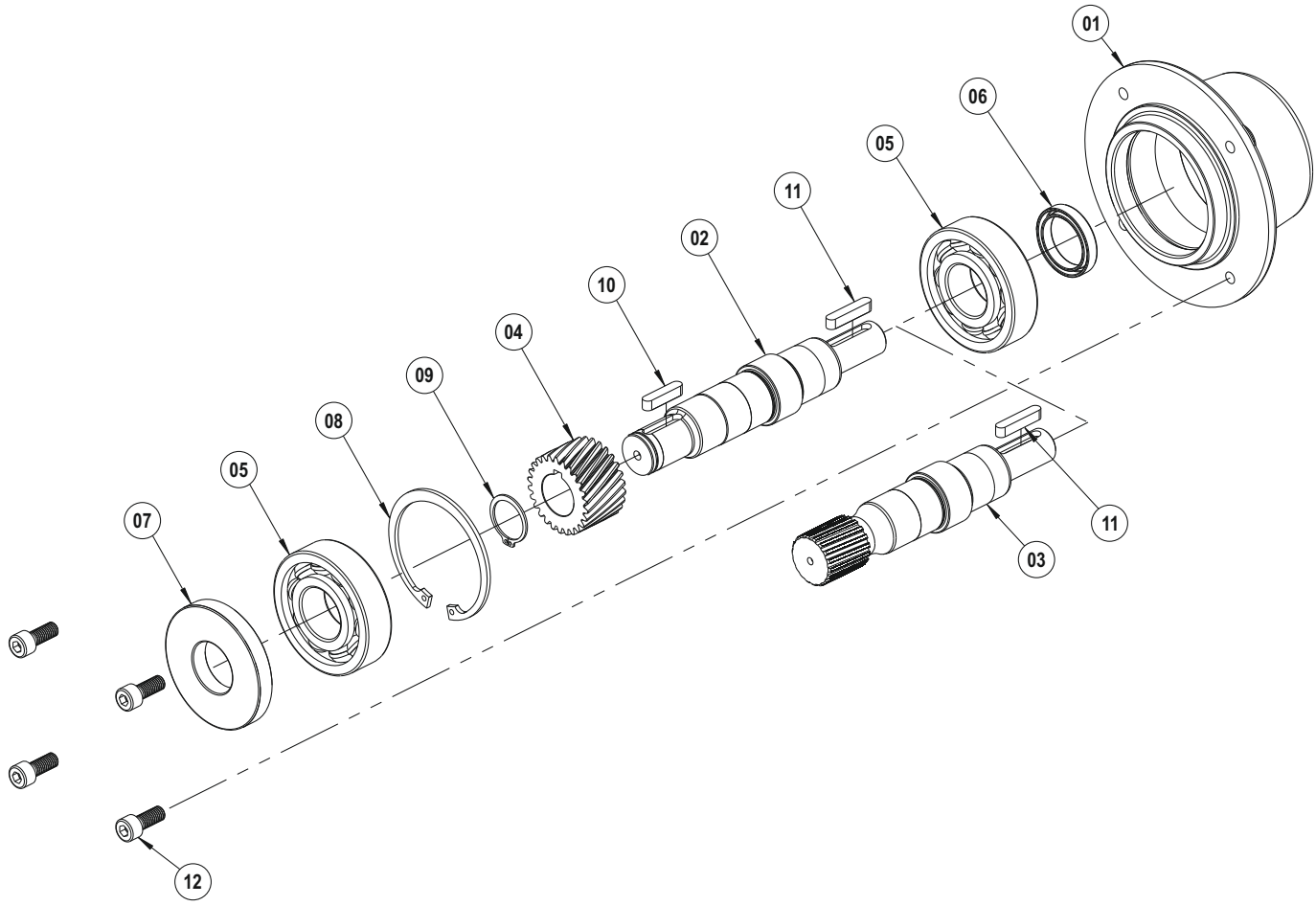
PAM B14 / 63 ... 132



01	Gövde	Gear Case	Gehäuse
02	PAM Mili (Kamalı)	PAM Shaft (With Key)	PAM Welle (mit Passfeder)
03	PAM Mili	PAM Shaft	PAM Welle
04	Z1 Dişlisi (Kamalı)	Driving Pinion (With Key)	Antriebsritzel (mit Passfeder)
05	Z1 Dişlisi	Driving Pinion	Antriebsritzel
06	Rondela	Washer	Distanzscheibe
07	Rulman	Bearing	Kugellager
08	Yağ Keçesi	Oil Seal	Öldichtung
09	Segman (DIN 471)	Circlip (DIN 471)	Sicherungsring (DIN 471)
10	Segman (DIN 472)	Circlip (DIN 472)	Sicherungsring (DIN 472)
11	Segman (DIN 471)	Circlip (DIN 471)	Sicherungsring (DIN 471)
12	Layner	Shim	Passscheibe
13	Layner	Shim	Passscheibe
14	Kama	Key	Passfeder
15	Rondela (DIN 127)	Washer (DIN 127)	Distanzscheibe (DIN 127)
16	Cıvata (DIN 933)	Bolt (DIN 933)	Verschrauben (DIN 933)
17	Rondela (DIN 7603)	Washer (DIN 7603)	Distanzscheibe (DIN 7603)
18	Yağ Tapası	Oil Plug	Ölstöpsel
19	Rondela (DIN 127)	Washer (DIN 127)	Distanzscheibe (DIN 127)
20	Cıvata (DIN 933)	Bolt (DIN 933)	Verschrauben (DIN 933)
21	Motor	Motor	Motor

TR GENEL PARÇA LİSTESİ	EN GENERAL PART LIST	DE ALLGEMEINE STUCKLISTE

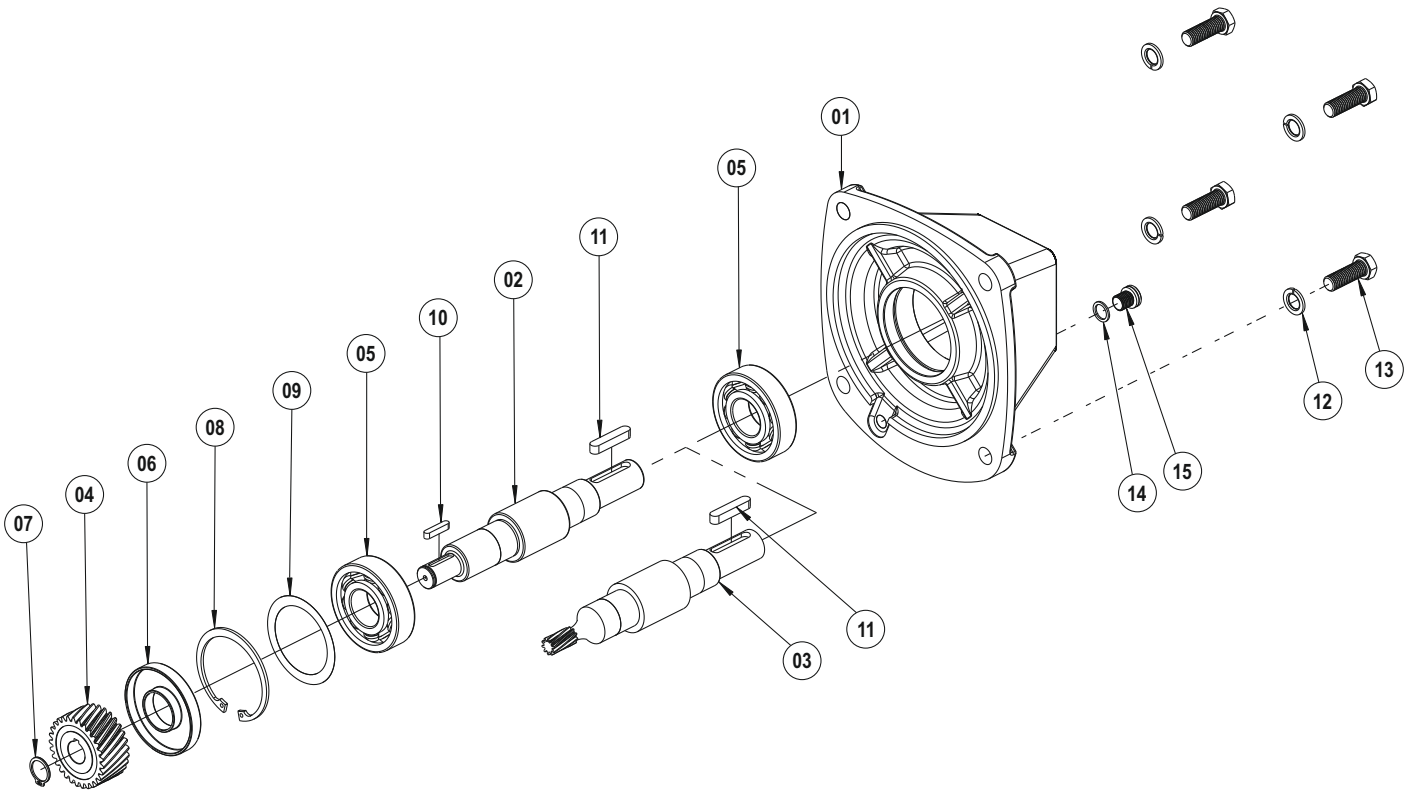
W 109



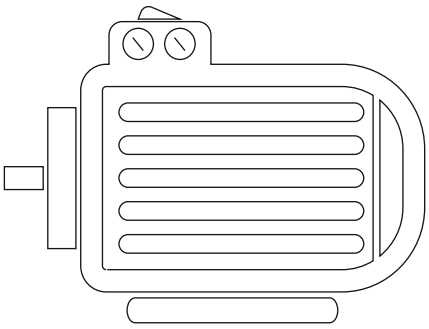
01	Gövde	Gear Case	Gehäuse
02	W Mili (Kamalı)	W Shaft (With Key)	PAM Welle (mit Passfeder)
03	W Mili (Dişlili)	W Shaft (With Gear)	PAM Welle (mit Zahnrad)
04	Z1 Dişlisi	Driving Pinion	Antriebsritzel
05	Rulman	Bearing	Kugellager
06	Yağ Keçesi	Oil Seal	Öldichtung
07	Yağ Keçesi	Oil Seal	Öldichtung
08	Segman (DIN 472)	Circlip (DIN 472)	Sicherungsring (DIN 472)
09	Segman (DIN 471)	Circlip (DIN 471)	Sicherungsring (DIN 471)
10	Kama	Key	Passfeder
11	Kama	Key	Passfeder
12	Cıvata (DIN 912)	Bolt (DIN 912)	Verschrauben (DIN 912)

TR GENEL PARÇA LİSTESİ | EN GENERAL PART LIST | DE ALLGEMEINE STUCKLISTE

W 122 - 172 - 213

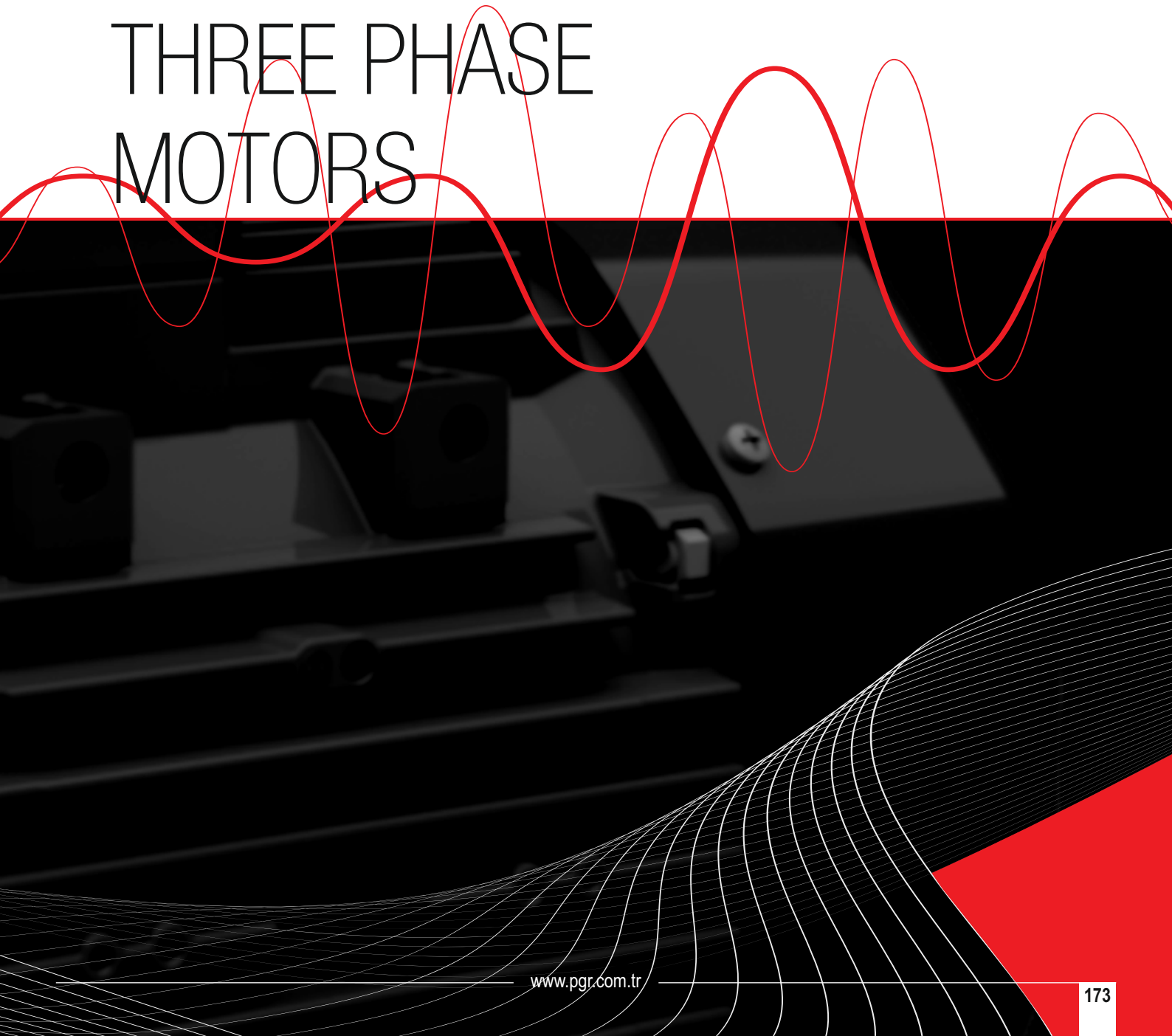


01	Gövde	Gear Case	Gehäuse
02	W Mili (Kamalı)	W Shaft (With Key)	W Welle (mit Passfeder)
03	W Mili (Dişlili)	W Shaft (With Gear)	W Welle (mit Zahnrad)
04	Z1 Dişlisi (Kamalı)	Driving Pinion (With Key)	Antriebsritzel (mit Passfeder)
05	Rulman	Bearing	Kugellager
06	Yağ Keçesi	Oil Seal	Öldichtung
07	Segman (DIN 471)	Circlip (DIN 471)	Sicherungsring (DIN 471)
08	Segman (DIN 472)	Circlip (DIN 472)	Sicherungsring (DIN 472)
09	Layner	Shim	Passscheibe
10	Kama	Key	Passfeder
11	Kama	Key	Passfeder
12	Rondela (DIN 127)	Washer (DIN 127)	Distanzscheibe (DIN 127)
13	Cıvata (DIN 933)	Bolt (DIN 933)	Verschrauben (DIN 933)
14	Rondela (DIN 7603)	Washer (DIN 7603)	Distanzscheibe (DIN 7603)
15	Yağ Tapası	Oil Plug	Ölstöpsel



ÜÇ FAZLI MOTORLAR

THREE PHASE MOTORS



IE3

ÜÇ FAZLI MOTORLAR
THREE PHASE MOTORS

ELEKTRİKSEL ÖZELLİKLER - 50 Hz / ELECTRICAL CHARACTERISTICS AT 50 Hz

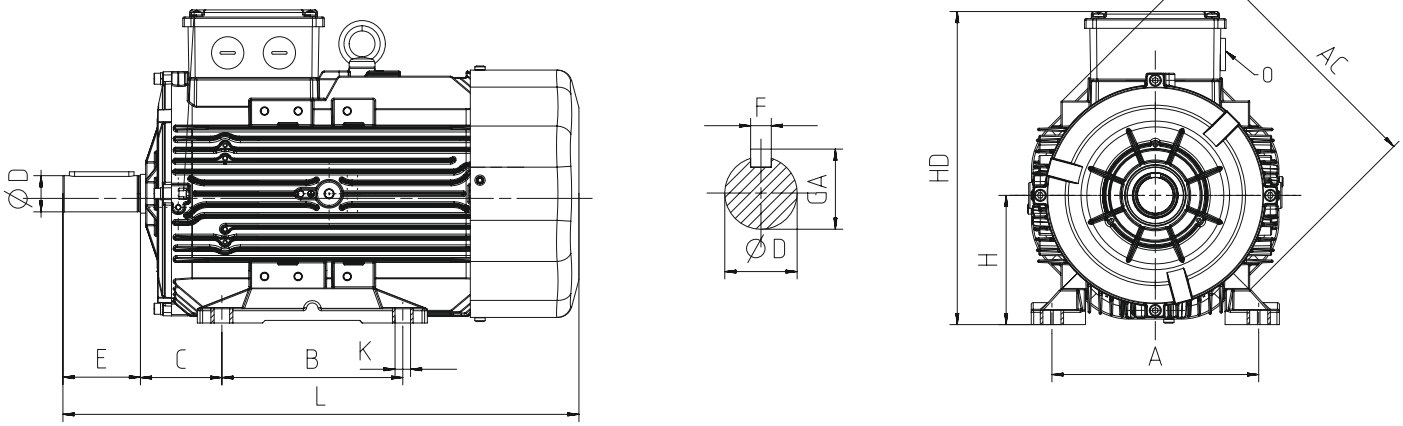
	MOTOR TİPİ MOTOR TYPE	GÖVDE TİPİ HOUSING TYPE	NOMİNAL RATED VALUES					KALKIŞTAKİ DEĞERLER STARTING VALUES				Devrilme Momenti Oranı Breakdown Torque Ratio	VERİM* EFFICIENCY* η%			Cos φ	J	Ağırlık Weight (B3)	Ses Basınç Seviyesi Sound Pressure Level
			GÜÇ POWER		DEVİR SPEED	AKIM CURRENT	MOMENT TORQUE	AKIM CURRENT I_A / I_N		MOMENT TORQUE M_A / M_N									
			kW	HP	rpm	A	Nm	⅄	Δ	⅄	Δ	Mk/ Mn	4/4	3/4	2/4	4/4	kgm²	kg	dBA **
	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
230/400V	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
230/400V	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
230/400V	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
230/400V	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
400/690V	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
400/690V	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
400/690V	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
400/690V	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
400/690V	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
400/690V	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
400/690V	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
400/690V	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
400/690V	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
400/690V	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
400/690V	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
400/690V	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
400/690V	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
400/690V	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
400/690V	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
400/690V	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
400/690V	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
400/690V	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
400/690V	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
400/690V	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
230/400V	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
230/400V	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
230/400V	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
230/400V	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
400/690V	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
400/690V	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
400/690V	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
400/690V	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
400/690V	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
400/690V	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
400/690V	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
400/690V	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
400/690V	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
400/690V	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
400/690V	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
400/690V	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
400/690V	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
400/690V	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
400/690V	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
400/690V	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
400/690V	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
400/690V	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
400/690V	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 uzaklıktan 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	VERİM* EFFICIENCY* η%			Cos φ	J	Ağırlık Weight (B3)	Ses Basınç Seviyesi Sound Pressure Level
			GÜÇ POWER		DEVİR SPEED	AKIM CURRENT	MOMENT TORQUE	AKIM CURRENT I_A / I_N		MOMENT TORQUE M_A / M_N									
			kW	HP	rpm	A	Nm	⅄	Δ	⅄	Δ	Mk/ Mn	4/4	3/4	2/4	4/4	kgm^2	kg	dBA **
	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



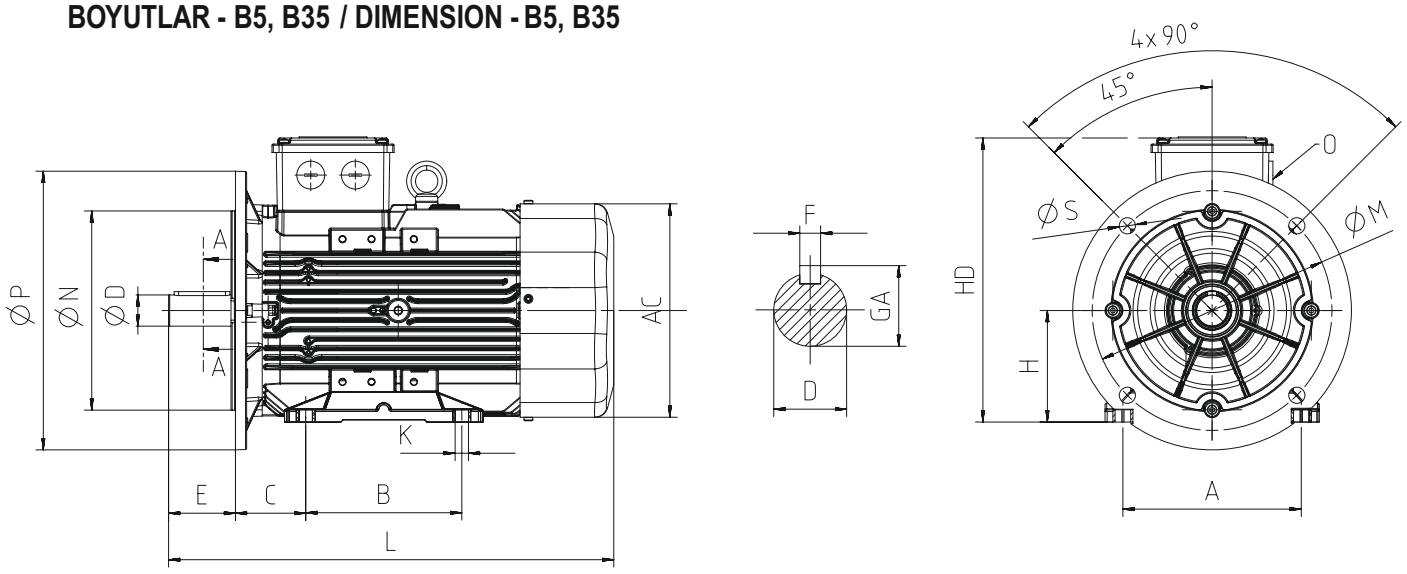
				Ana Boyutlar Main Dimensions			Ayaklı Motorlar Foot Mounted Motors						Mil Shaft				Rulman Bearing		Keçe Seal	
Güç Power (kW)	Kutup sayısı Number of Poles	Motor Tipi Motor Type	Gövde Tipi Housing Type	AC	L	O	B	A	H	HD	K	C	D(1)	E	GA	F(2)	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non drive Side	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non drive Side
0,75	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

				Ana Boyutlar Main Dimensions			Ayaklı Motorlar Foot Mounted Motors						Mil Shaft				Rulman Bearing		Keçe Seal	
Güç Power (kW)	Kutup sayısı Number of Poles	Motor Tipi Motor Type	Gövde Tipi Housing Type	AC	L	O	B	A	H	HD	K	C	D(1)	E	GA	F(2)	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non drive Side	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non drive Side
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	6315-2Z	6313-2Z	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



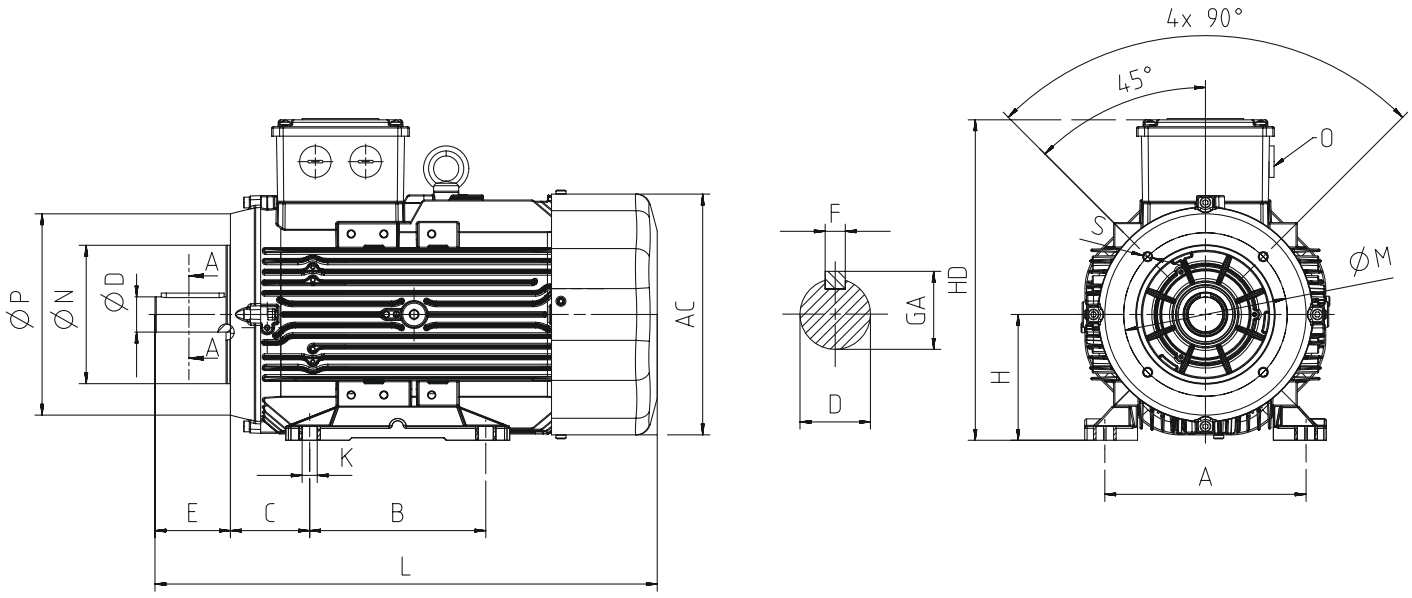
				Ana Boyutlar Main Dimensions			Ayaklı Motorlar Foot Mounted Motors					Mil Shaft				Rulman Bearing		Keçe Seal		Flanş (FA) (B5) Flange (FA) (B5)				
Güç Power (kW)	Kutup sayısı Number of Poles	Motor Tipi Motor Type	Gövde Tipi Housing Type	AC	L	O	B	A	H	HD	K	D(1)	E	GA	F(2)	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non drive Side	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non drive Side	P	N(3)	M	R	S
0,75	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"

				Ana Boyutlar Main Dimensions			Ayaklı Motorlar Foot Mounted Motors					Mil Shaft				Rulman Bearing		Keçe Seal		Flanş (FA) (B5) Flange (FA) (B5)				
Güç Power (kW)	Kutup sayısı Number of Poles	Motor Tipi Motor Type	Gövde Tipi Housing Type	AC	L	O	B	A	H	HD	K	D(1)	E	GA	F(2)	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non drive Side	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non drive Side	P	N(3)	M	R	S
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	6315-2Z	6313-2Z	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"

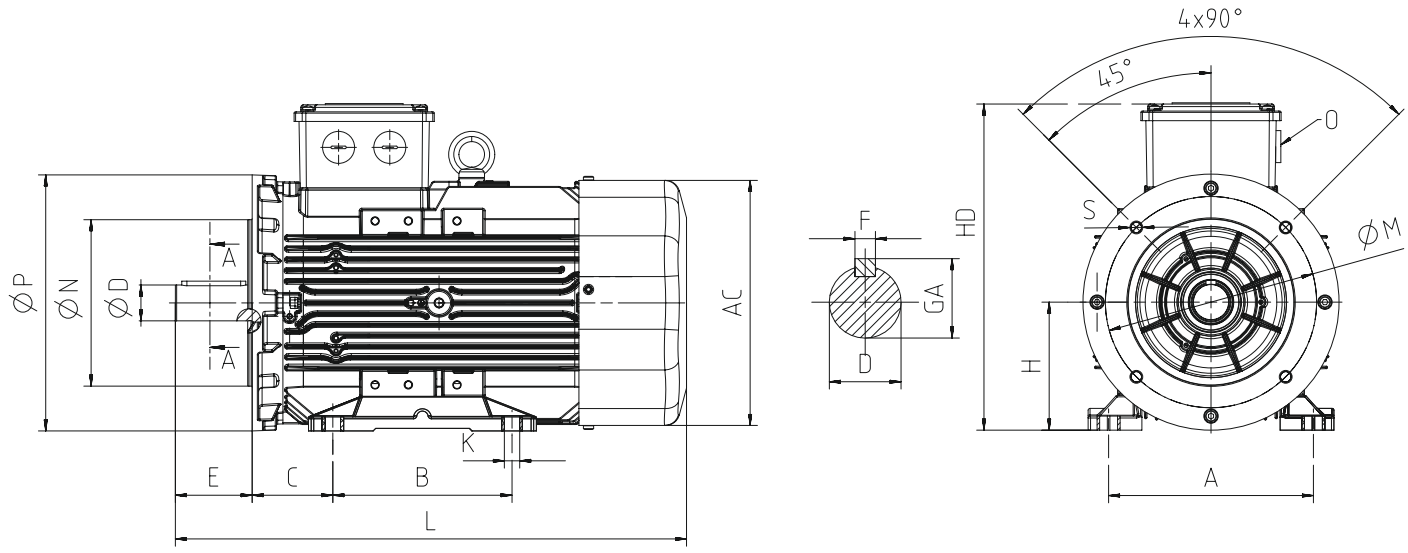
BOYUTLAR - B14a, B34a / DIMENSION - B14a, B34a



				Ana Boyutlar Main Dimensions			Ayaklı Motorlar Foot Mounted Motors					Mil Shaft				Rulman Bearing		Keçe Seal		Flanş (FC) (B14a) Flange (FC) (B14a)				
Güç Power (kW)	Kutup sayısı Number of Poles	Motor Tipi Motor Type	Gövde Tipi Housing Type	AC	L	O	B	A	H	HD	K	D(1)	E	GA	F(2)	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non drive Side	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non drive Side	P	N(3)	M	R	S
0,75	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



				Ana Boyutlar Main Dimensions			Ayaklı Motorlar Foot Mounted Motors					Mil Shaft				Rulman Bearing		Keçe Seal		Flanş (FB) (B14b) Flange (FB) (B14b)				
Güç Power (kW)	Kutup sayısı Number of Poles	Motor Tipi Motor Type	Gövde Tipi Housing Type	AC	L	O	B	A	H	HD	K	D(1)	E	GA	F(2)	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non drive Side	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non drive Side	P	N(3)	M	R	S
0,75	2	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

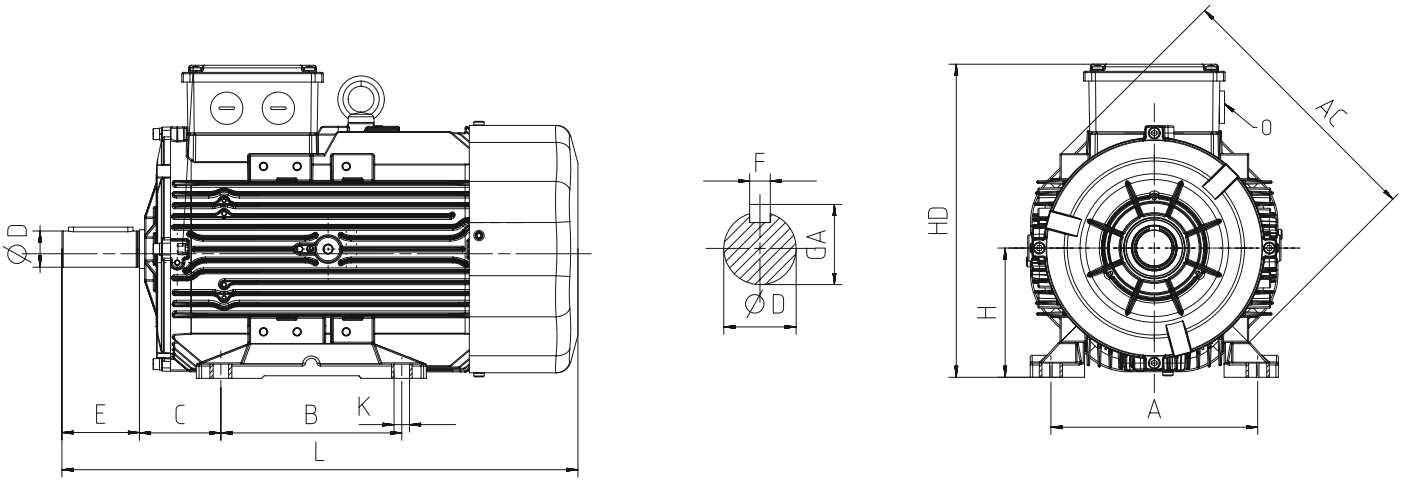
(1) Toleranslar 28 mm'ye kadar DIN EN 50347 "j6", 28 mm ve üzeri "k6" / Tolerance DIN EN 50347 "j6" up to 28mm, "k6" above 28mm
(2) DIN 6885'e göre / According to DIN 6885
(3) Tolerans DIN EN 50347 "j6" / Tolerance DIN EN 50347 "j6"

ELEKTRİKSEL ÖZELLİKLER - 50 Hz / ELECTRICAL CHARACTERISTICS AT 50 Hz

	MOTOR TİPİ MOTOR TYPE	GÖVDE TİPİ HOUSING TYPE	NOMİNAL RATED VALUES					KALKIŞTAKİ DEĞERLER STARTING VALUES				Devrilme Momenti Oranı Breakdown Torque Ratio	VERİM* EFFICIENCY* η%			Cos φ	J	Ağırlık Weight (B3)	Ses Basınç Seviyesi Sound Pressure Level
			GÜÇ POWER		DEVİR SPEED	AKIM CURRENT	MOMENT TORQUE	AKIM CURRENT I_A / I_N		MOMENT TORQUE M_A / M_N									
			kW	HP	rpm	A	Nm	⅄	Δ	⅄	Δ	Mk/ Mn	4/4	3/4	2/4	4/4	kgm²	kg	dBA **
	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
230/400V	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
400/690V	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
400/690V	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
400/690V	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
400/690V	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
400/690V	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
400/690V	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
400/690V	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
230/400V	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
400/690V	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
400/690V	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
400/690V	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
400/690V	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

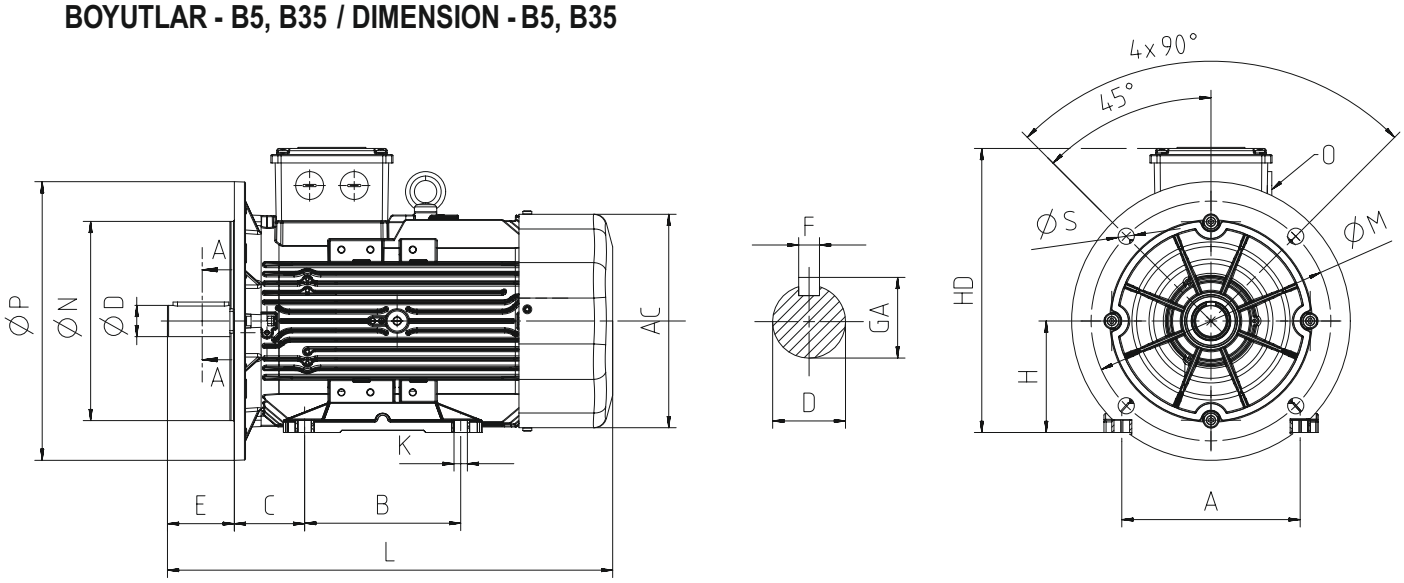
BOYUTLAR - B3 / DIMENSION - B3



				Ana Boyutlar Main Dimensions			Ayaklı Motorlar Foot Mounted Motors						Mil Shaft				Rulman Bearing		Keçe Seal	
Güç Power (kW)	Kutup sayısı Number of Poles	Motor Tipi Motor Type	Gövde Tipi Housing Type	AC	L	O	B	A	H	HD	K	C	D(1)	E	GA	F(2)	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non drive Side	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non drive Side
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

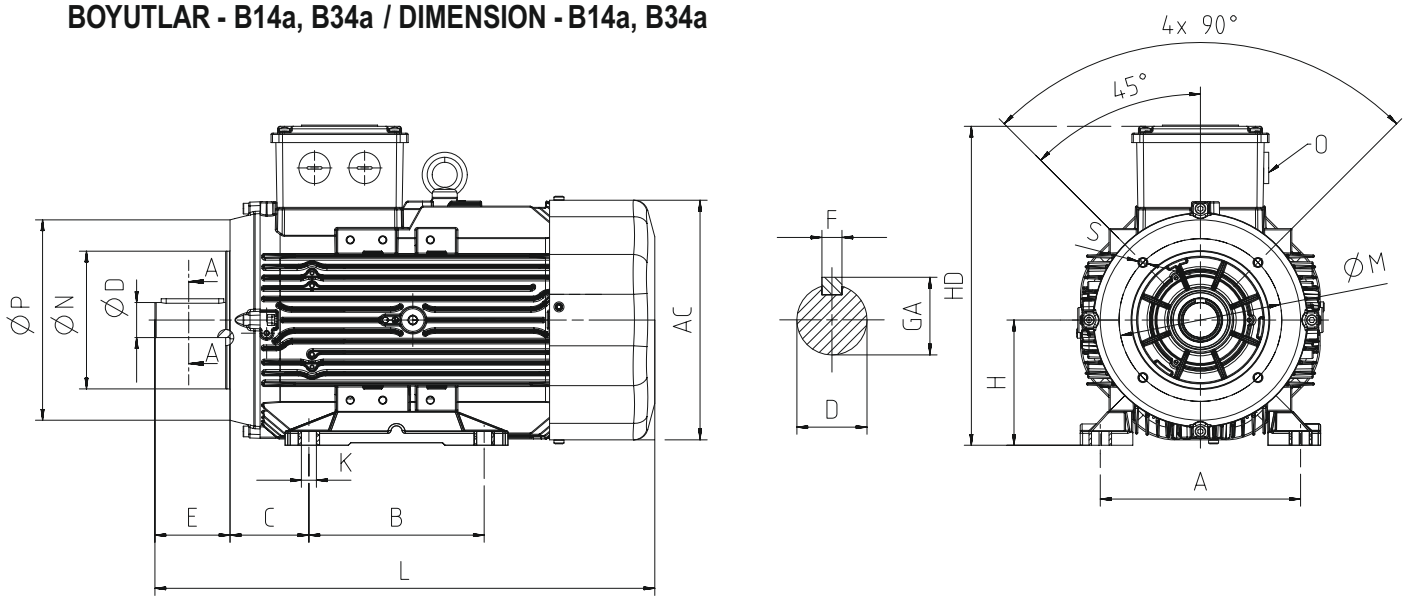
BOYUTLAR - B5, B35 / DIMENSION - B5, B35



				Ana Boyutlar Main Dimensions			Ayaklı Motorlar Foot Mounted Motors					Mil Shaft				Rulman Bearing		Keçe Seal		Flanş (FA) (B5) Flange (FA) (B5)				
Güç Power (kW)	Kutup sayısı Number of Poles	Motor Tipi Motor Type	Gövde Tipi Housing Type	AC	L	O	B	A	H	HD	K	D(1)	E	GA	F(2)	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non drive Side	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non drive Side	P	N(3)	M	R	S
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"

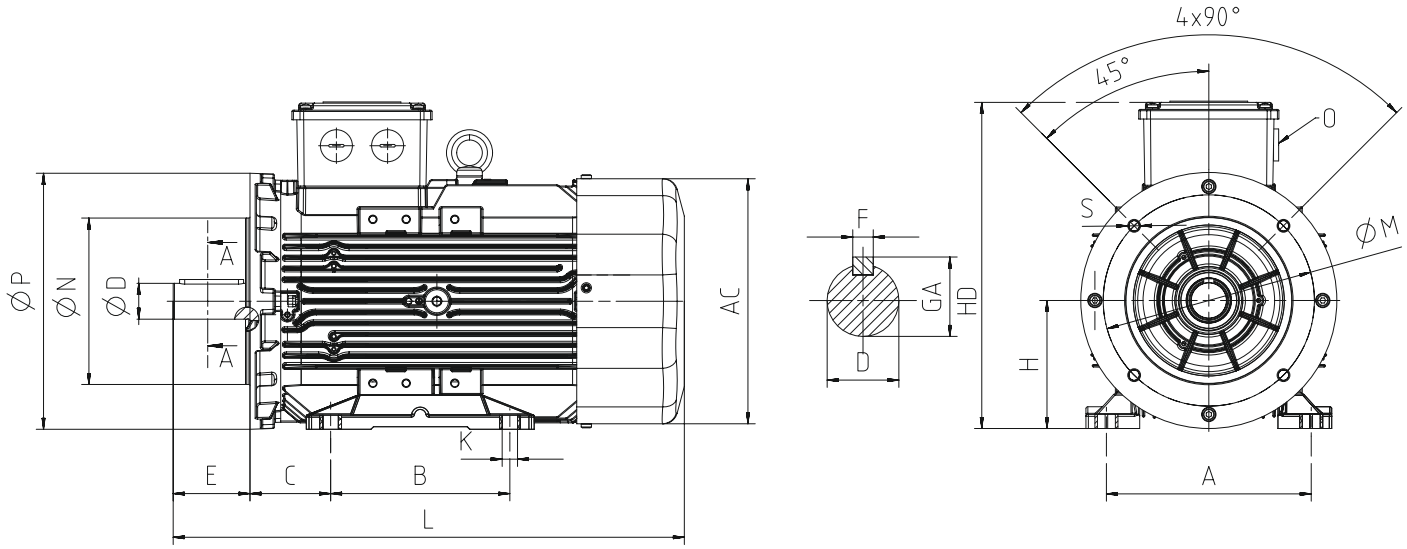
BOYUTLAR - B14a, B34a / DIMENSION - B14a, B34a



				Ana Boyutlar Main Dimensions			Ayaklı Motorlar Foot Mounted Motors					Mil Shaft				Rulman Bearing		Keçe Seal		Flanş (FC) (B14a) Flange (FC) (B14a)				
Güç Power (kW)	Kutup sayısı Number of Poles	Motor Tipi Motor Type	Gövde Tipi Housing Type	AC	L	O	B	A	H	HD	K	D(1)	E	GA	F(2)	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non drive Side	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non drive Side	P	N(3)	M	R	S
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



				Ana Boyutlar Main Dimensions			Ayaklı Motorlar Foot Mounted Motors					Mil Shaft				Rulman Bearing		Keçe Seal		Flanş (FB) (B14b) Flange (FB) (B14b)				
Güç Power (kW)	Kutup sayısı Number of Poles	Motor Tipi Motor Type	Gövde Tipi Housing Type	AC	L	O	B	A	H	HD	K	D(1)	E	GA	F(2)	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non drive Side	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non drive Side	P	N(3)	M	R	S
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

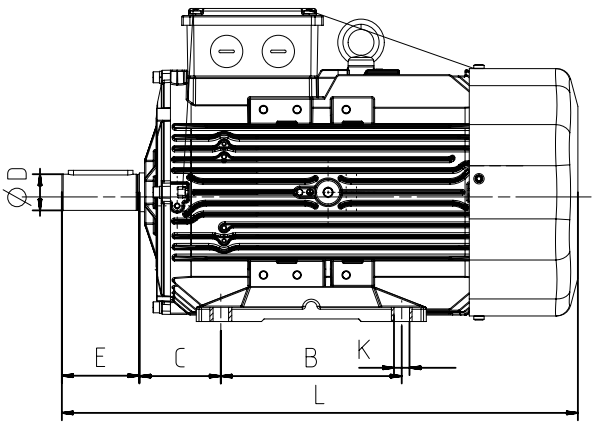
ELEKTRİKSEL ÖZELLİKLER - 50 Hz / ELECTRICAL CHARACTERISTICS AT 50 Hz

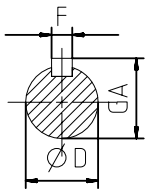
	MOTOR TİPİ MOTOR TYPE	GÖVDE TİPİ HOUSING TYPE	NOMİNAL RATED VALUES					KALKIŞTAKİ DEĞERLER STARTING VALUES				Devrilme Momenti Oranı Breakdown Torque Ratio	VERİM* EFFICIENCY* η%			Cos φ	J	Ağırlık Weight (B3)	Ses Basınç Seviyesi Sound Pressure Level
			GÜÇ POWER		DEVİR SPEED	AKIM CURRENT	MOMENT TORQUE	AKIM CURRENT I_A / I_N		MOMENT TORQUE M_A / M_N									
			kW	HP	rpm	A	Nm	⅄	Δ	⅄	Δ	Mk/ Mn	4/4	3/4	2/4	4/4	kgm²	kg	dBA **
	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

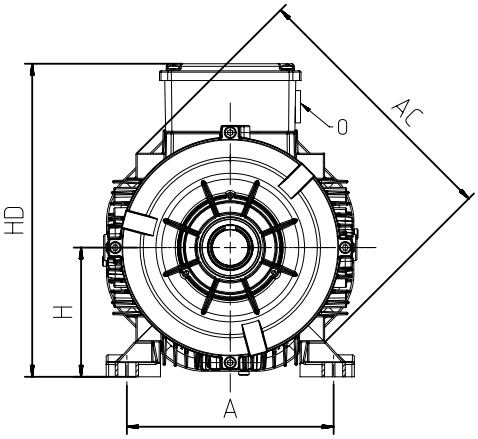
* IEC 60034-2-1' e göre / According to IEC 60034-2-1
** Ses Basınç Seviyeleri motordan 1m uzaklıktan ölçülmüştür. / The sound pressure measurements are taken 1m away from the motor
*** Tolerans +3 dBA / Tolerance +3 dBA

	MOTOR TİPİ MOTOR TYPE	GÖVDE TİPİ HOUSING TYPE	NOMİNAL RATED VALUES					KALKIŞTAKİ DEĞERLER STARTING VALUES				Devrilme Momenti Oranı Breakdown Torque Ratio	VERİM* EFFICIENCY* η%			Cos φ	J	Ağırlık Weight (B3)	Ses Basınç Seviyesi Sound Pressure Level
			GÜÇ POWER		DEVİR SPEED	AKIM CURRENT	MOMENT TORQUE	AKIM CURRENT I_A / I_N		MOMENT TORQUE M_A / M_N									
			kW	HP	rpm	A	Nm	⅄	Δ	⅄	Δ	Mk/ Mn	4/4	3/4	2/4	4/4	kgm²	kg	dBA **
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	1.480	191	709	2,4	7,2	0,7	2,2	2,5	94,5	94,5	93,9	0,88	3,03500	925	70
	Q2EP315M4C	Cast Iron	132,0	152,0	1.480	229	851	2,3	7,0	0,7	2,1	2,4	94,7	94,7	94,1	0,88	3,41500	1.010	70
	Q2EP315L4C	Cast Iron	160,0	184,0	1.480	273	1.032	2,5	7,5	0,7	2,2	2,5	94,9	94,9	94,3	0,89	4,11900	1.080	76
	Q2EP315L4D	Cast Iron	200,0	230,0	1.480	341	1.290	2,5	7,5	0,8	2,3	2,5	95,1	95,1	94,5	0,89	5,20300	1.200	76
	Q2EP355M4C	Cast Iron	250,0	280,0	1.485	426	1.607	2,6	7,9	0,8	2,3	2,5	95,1	95,1	94,5	0,89	8,79000	1.720	76
	Q2EP355L4C	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	8730,0	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







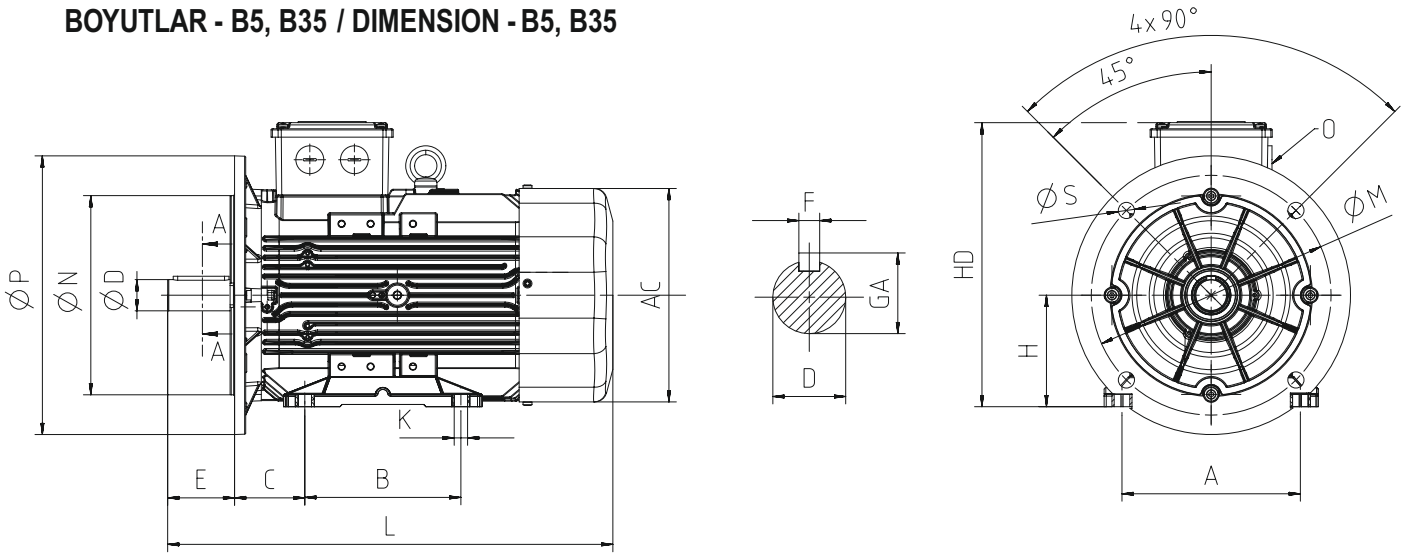
				Ana Boyutlar Main Dimensions			Ayaklı Motorlar Foot Mounted Motors						Mil Shaft				Rulman Bearing		Keçe Seal	
Güç Power (kW)	Kutup sayısı Number of Poles	Motor Tipi Motor Type	Gövde Tipi Housing Type	AC	L	O	B	A	H	HD	K	C	D(1)	E	GA	F(2)	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non drive Side	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non drive Side
0,12	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	6201-2Z	6201-2Z	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	6208-2Z	6206-2Z	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

				Ana Boyutlar Main Dimensions			Ayaklı Motorlar Foot Mounted Motors						Mil Shaft				Rulman Bearing		Keçe Seal	
Güç Power (kW)	Kutup sayısı Number of Poles	Motor Tipi Motor Type	Gövde Tipi Housing Type	AC	L	O	B	A	H	HD	K	C	D(1)	E	GA	F(2)	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non drive Side	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non drive Side
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	6315-2Z	6313-2Z	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

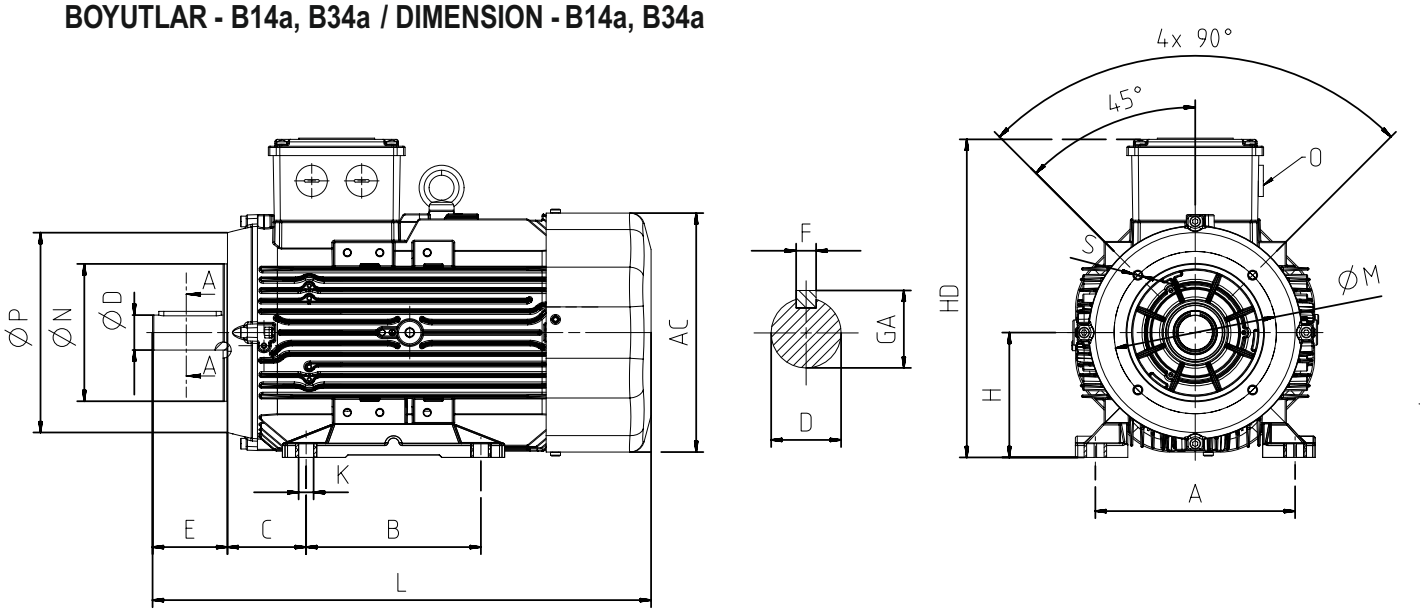


				Ana Boyutlar Main Dimensions			Ayaklı Motorlar Foot Mounted Motors					Mil Shaft				Rulman Bearing		Keçe Seal		Flanş (FA) (B5) Flange (FA) (B5)				
Güç Power (kW)	Kutup sayısı Number of Poles	Motor Tipi Motor Type	Gövde Tipi Housing Type	AC	L	O	B	A	H	HD	K	D(1)	E	GA	F(2)	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non drive Side	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non drive Side	P	N(3)	M	R	S
0,12	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	6201-2Z	6201-2Z	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	1 9	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	6208-2Z	6206-2Z	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"

				Ana Boyutlar Main Dimensions			Ayaklı Motorlar Foot Mounted Motors					Mil Shaft				Rulman Bearing		Keçe Seal		Flanş (FA) (B5) Flange (FA) (B5)				
Güç Power (kW)	Kutup sayısı Number of Poles	Motor Tipi Motor Type	Gövde Tipi Housing Type	AC	L	O	B	A	H	HD	K	D(1)	E	GA	F(2)	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non drive Side	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non drive Side	P	N(3)	M	R	S
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	6315-2Z	6313-2Z	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

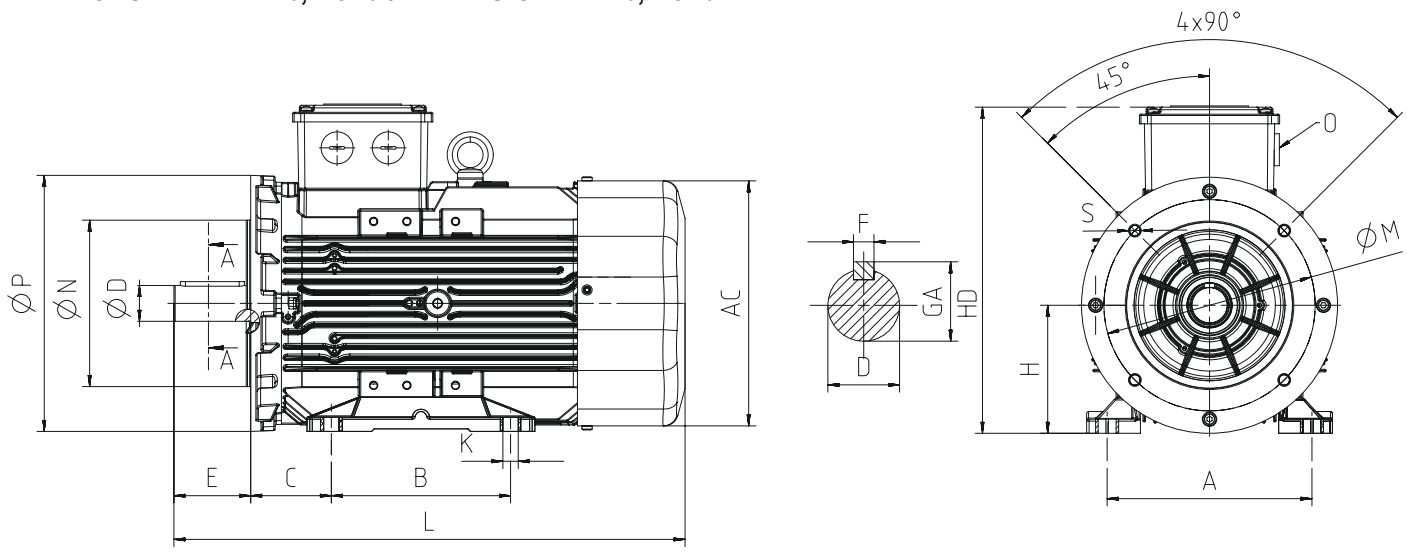
BOYUTLAR - B14a, B34a / DIMENSION - B14a, B34a



				Ana Boyutlar Main Dimensions			Ayaklı Motorlar Foot Mounted Motors					Mil Shaft				Rulman Bearing		Keçe Seal		Flanş (FC) (B14a) Flange (FC) (B14a)				
Güç Power (kW)	Kutup sayısı Number of Poles	Motor Tipi Motor Type	Gövde Tipi Housing Type	AC	L	O	B	A	H	HD	K	D(1)	E	GA	F(2)	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non drive Side	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non drive Side	P	N(3)	M	R	S
0,12	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	6201-2Z	6201-2Z	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	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	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	6208-2Z	6206-2Z	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



				Ana Boyutlar Main Dimensions			Ayaklı Motorlar Foot Mounted Motors					Mil Shaft				Rulman Bearing		Keçe Seal		Flanş (FB) (B14b) Flange (FB) (B14b)				
Güç Power (kW)	Kutup sayısı Number of Poles	Motor Tipi Motor Type	Gövde Tipi Housing Type	AC	L	O	B	A	H	HD	K	D(1)	E	GA	F(2)	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non drive Side	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non drive Side	P	N(3)	M	R	S
0,12	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	6201-2Z	6201-2Z	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	6208-2Z	6206-2Z	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"

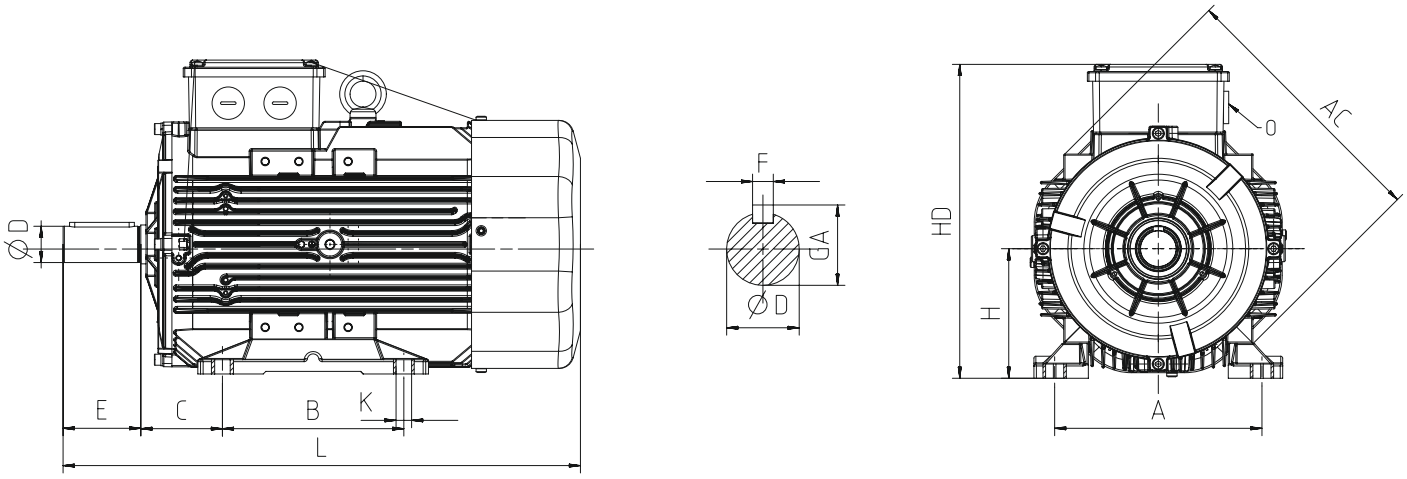
ÜÇ FAZLI MOTORLAR - KOMPAKT
THREE PHASE MOTORS - COMPACT

ELEKTRİKSEL ÖZELLİKLER - 50 Hz / ELECTRICAL CHARACTERISTICS AT 50 Hz

	MOTOR TİPİ MOTOR TYPE	GÖVDE TİPİ HOUSING TYPE	NOMİNAL RATED VALUES					KALKIŞTAKİ DEĞERLER STARTING VALUES				Devrilme Momenti Oranı Breakdown Torque Ratio	VERİM* EFFICIENCY* η%			Cos φ	J	Ağırlık Weight (B3)	Ses Basınç Seviyesi Sound Pressure Level
			GÜÇ POWER		DEVİR SPEED	AKIM CURRENT	MOMENT TORQUE	AKIM CURRENT I_A / I_N		MOMENT TORQUE M_A / M_N									
			kW	HP	rpm	A	Nm	⅄	Δ	⅄	Δ	Mk/ Mn	4/4	3/4	2/4	4/4	kgm²	kg	dBA **
	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
230/400V	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
230/400V	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
400/690V	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
400/690V	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
400/690V	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
400/690V	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
400/690V	Q2H132M2C	Aluminium	18,5	15,0	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
400/690V	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
400/690V	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
400/690V	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
400/690V	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
400/690V	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
400/690V	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
400/690V	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
230/400V	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
230/400V	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
230/400V	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
230/400V	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
230/400V	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
400/690V	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
400/690V	Q2H160L4B	Aluminium	18,5	15,0	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
400/690V	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
400/690V	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
400/690V	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
400/690V	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
400/690V	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

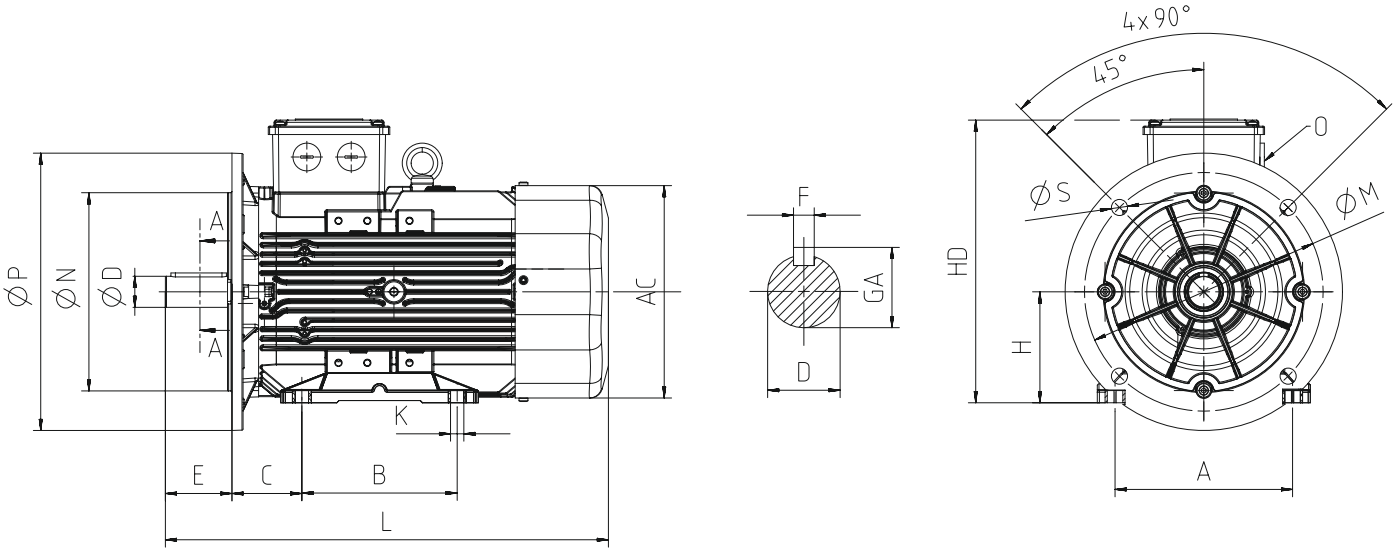
BOYUTLAR - B3 / DIMENSION - B3



				Ana Boyutlar Main Dimensions			Ayaklı Motorlar Foot Mounted Motors						Mil Shaft				Rulman Bearing		Keçe Seal	
Güç Power (kW)	Kutup sayısı Number of Poles	Motor Tipi Motor Type	Gövde Tipi Housing Type	AC	L	O	B	A	H	HD	K	C	D(1)	E	GA	F(2)	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non drive Side	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non drive Side
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

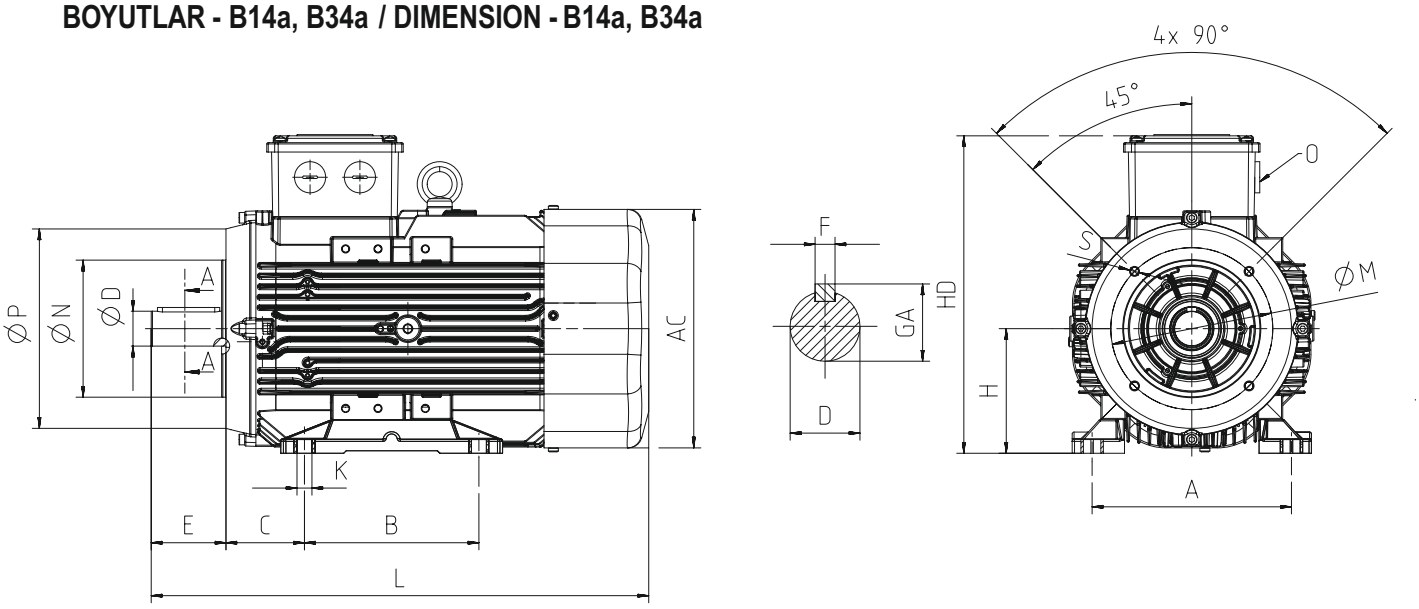
BOYUTLAR - B5, B35 / DIMENSION - B5, B35



				Ana Boyutlar Main Dimensions			Ayaklı Motorlar Foot Mounted Motors					Mil Shaft				Rulman Bearing		Keçe Seal		Flanş (FA) (B5) Flange (FA) (B5)				
Güç Power (kW)	Kutup sayısı Number of Poles	Motor Tipi Motor Type	Gövde Tipi Housing Type	AC	L	O	B	A	H	HD	K	D(1)	E	GA	F(2)	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non drive Side	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non drive Side	P	N(3)	M	R	S
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

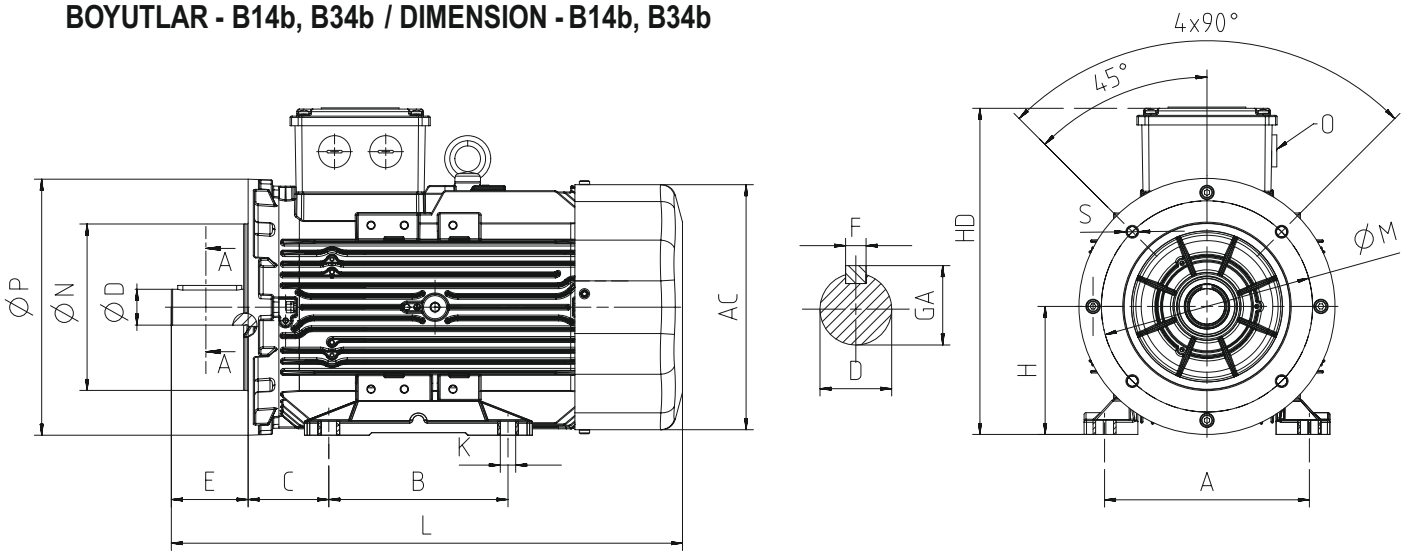


				Ana Boyutlar Main Dimensions			Ayaklı Motorlar Foot Mounted Motors					Mil Shaft				Rulman Bearing		Keçe Seal		Flanş (FC) (B14a) Flange (FC) (B14a)				
Güç Power (kW)	Kutup sayısı Number of Poles	Motor Tipi Motor Type	Gövde Tipi Housing Type	AC	L	O	B	A	H	HD	K	D(1)	E	GA	F(2)	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non drive Side	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non drive Side	P	N(3)	M	R	S
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"

ÜÇ FAZLI MOTORLAR - KOMPAKT
THREE PHASE MOTORS - COMPACT

BOYUTLAR - B14b, B34b / DIMENSION - B14b, B34b



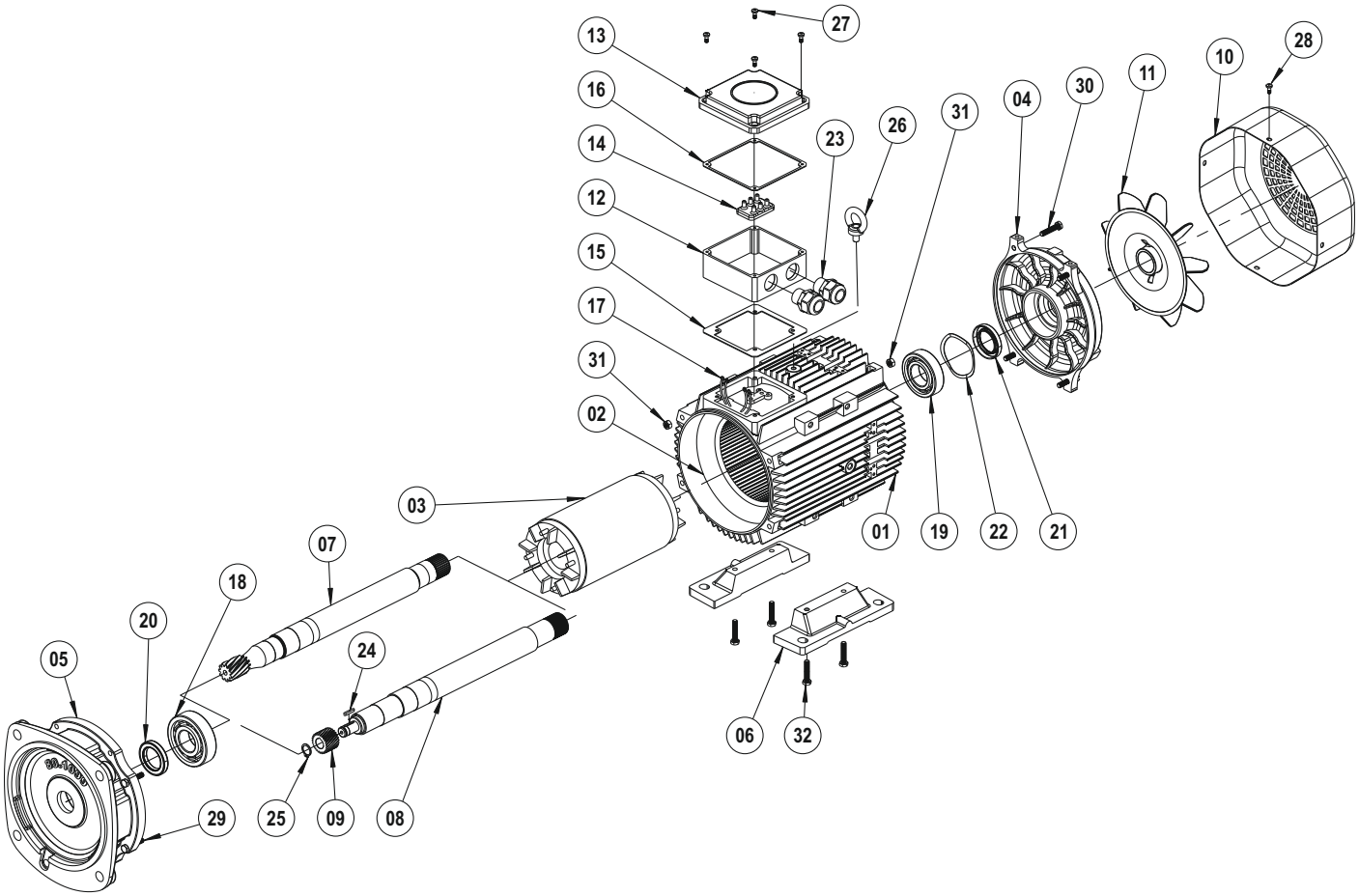
				Ana Boyutlar Main Dimensions			Ayaklı Motorlar Foot Mounted Motors					Mil Shaft				Rulman Bearing		Keçe Seal		Flanş (FB) (B14b) Flange (FB) (B14b)				
Güç Power (kW)	Kutup sayısı Number of Poles	Motor Tipi Motor Type	Gövde Tipi Housing Type	AC	L	O	B	A	H	HD	K	D(1)	E	GA	F(2)	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non drive Side	Kasnak Tarafı Drive Side	Kasnak Tarafı Aksi Non drive Side	P	N(3)	M	R	S
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"

TR MOTOR PARÇA LİSTESİ

EN MOTOR PART LIST

DE ERSATZTEILLISTE FÜR MOTOR

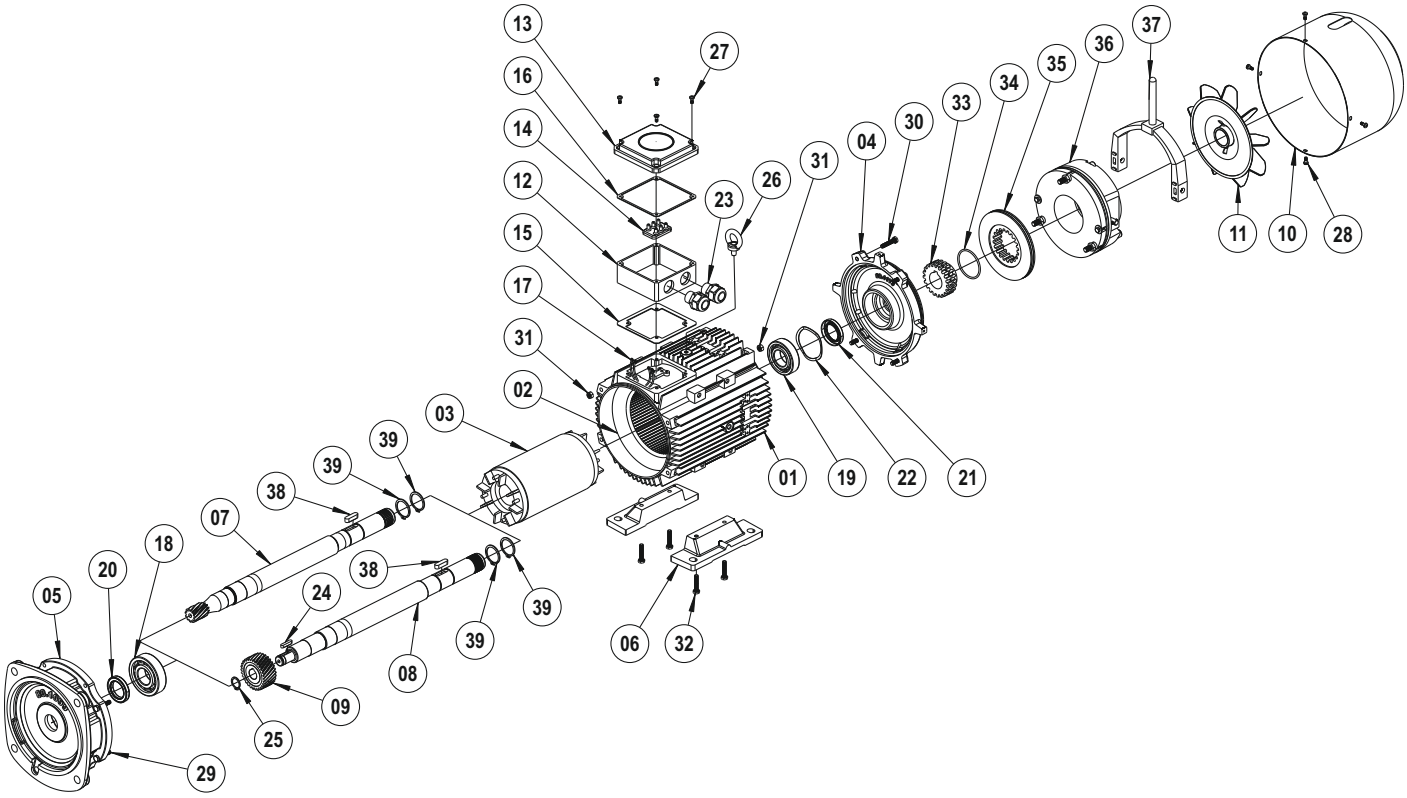


	TR	EN	DE
01	Gövde	Housing	Gehäuse
02	Sargılı Stator	Wound Stator	gewickelter Stator
03	Rotor	Rotor	Rotor
04	Motor Arka Kapağı	Nondrive - Endshield	B-Lagerschild
05	PGR Motor Bağlantı Flanşı	Moter Connection Flange	Moter-Anschlussflansch
06	Ayak	Foot	Fuß
07	Motor Mili (Yekpare)	Drive Shaft (Gearcut)	Antriebswelle (verzahnt)
08	Motor Mili (Çakma)	Drive Shaft (Plain)	Antriebswelle (glatt)
09	Z1 Dişlisi	Z1 Gear	Antriebsritzel
10	Fan Kapağı	Fan Cover	Lüfterhaube
11	Fan	Fan	Lüfter
12	Terminal Kutusu	Terminal Box	Klemmkasten
13	Terminal Kutu Kapağı	Terminal Box Cover	Klemmkastendeckel
14	Klemens Plakası	Terminal Plate	Anschlussplatte
15	Terminal Contası Alt	Terminal Gasket Down	Klemmkastendichtung unten
16	Terminal Contası Üst	Terminal Gasket Up	Klemmkastendichtung oben
17	Kablo Grubu	Lead Cables	Kabelbaum
18	Ön Rulman	Bal Bearing (Drive-Side)	Kugellager (Antriebsseite)
19	Arka Rulman	Bal Bearing (Non-Drive-Side)	Kugellager (Nicht-Antriebsseite)
20	Keçe (Ön)	Seal Ring (Front)	Dichtungsring (Vorne)
21	Keçe (Arka)	Seal Ring (Back)	Dichtungsring (Hinten)
22	Rulman Gergi Yayı	Bearing Shim	Stützscheibe
23	Rakor	Conduit	Gewindemuffe
24	Kama	Key	Passfeder
25	Segman	Circilip DIN 471	Sicherungsring DIN 471
26	Mapa	Eye Bolt	Augenschraube
27	Yıldız Başlı Civata	Pan Head Secrews	Kreuzschlitzschraube
28	Yıldız Başlı Civata	Pan Head Secrews	Kreuzschlitzschraube
29	Civata DIN 933	Bolt	Schraube DIN 933
30	Civata DIN 933	Bolt	Schraube DIN 933
31	Somun	Nut	Schraubenmutter
32	Civata DIN 933	Bolt	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

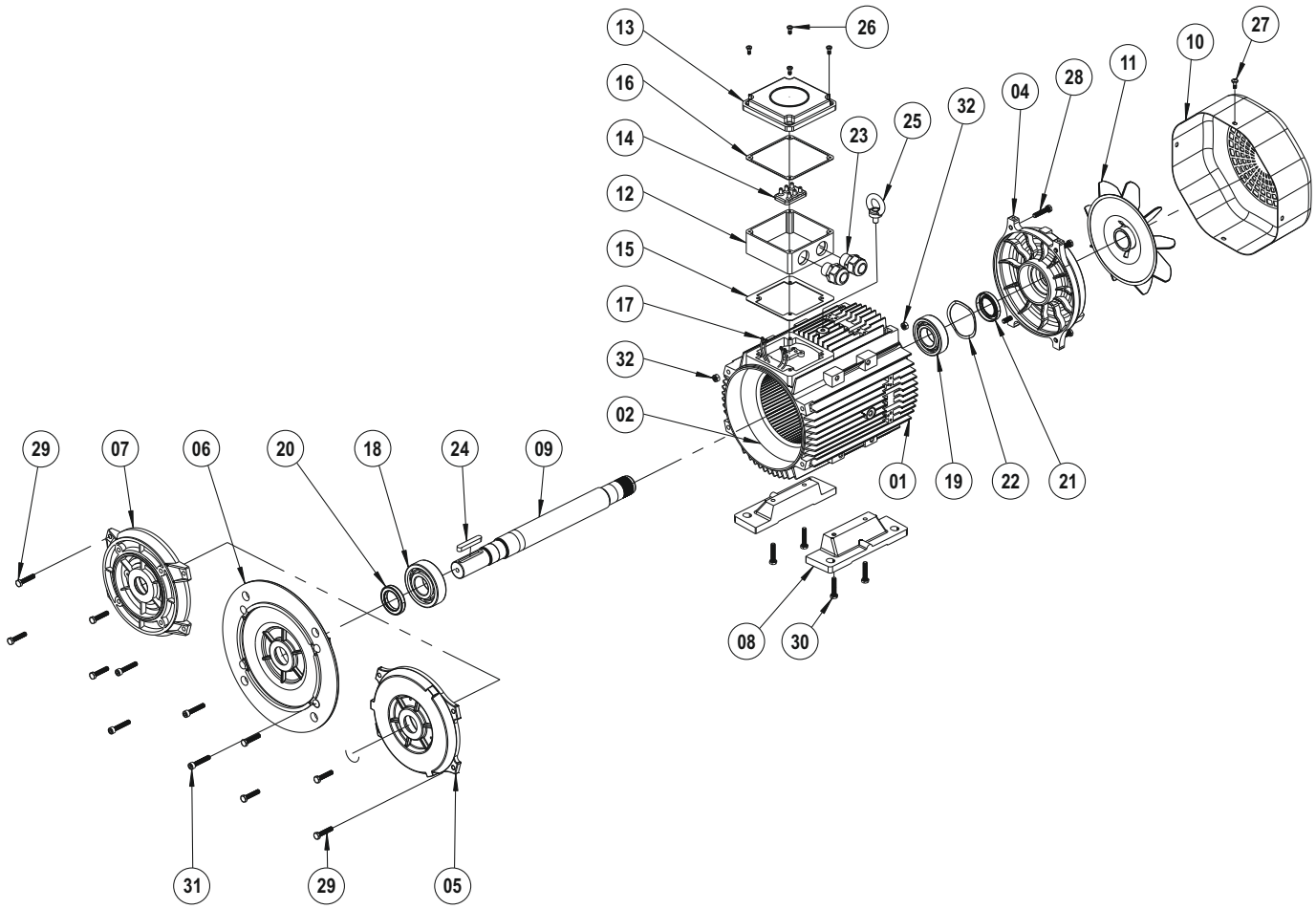
01	Housing
02	Wound Stator
03	Rotor
04	Brake Connection Flange
05	Motor Connection Flange
06	Foot
07	Drive Shaft (Gearcut)
08	Drive Shaft (Plain)
09	Z1 Gear
10	Fan Cover
11	Fan
12	Terminal Box
13	Terminal Box Cover
14	Terminal Plate
15	Terminal Gasket Down
16	Terminal Gasket Up
17	Lead Cables
18	Bal 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	Circilip 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	Circilip DIN 471

01	Gehäuse
02	gewickelter Stator
03	Rotor
04	Bremsflansch
05	Moter-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 B3-B5-B14 FLANŞLI MOTOR PARÇA LİSTESİ

EN B3-B5-B14 FLANGE MOTOR PART LIST

DE ERSATZTEILLISTE FÜR MOTOR MIT B3-B5-B14-FLANSCH

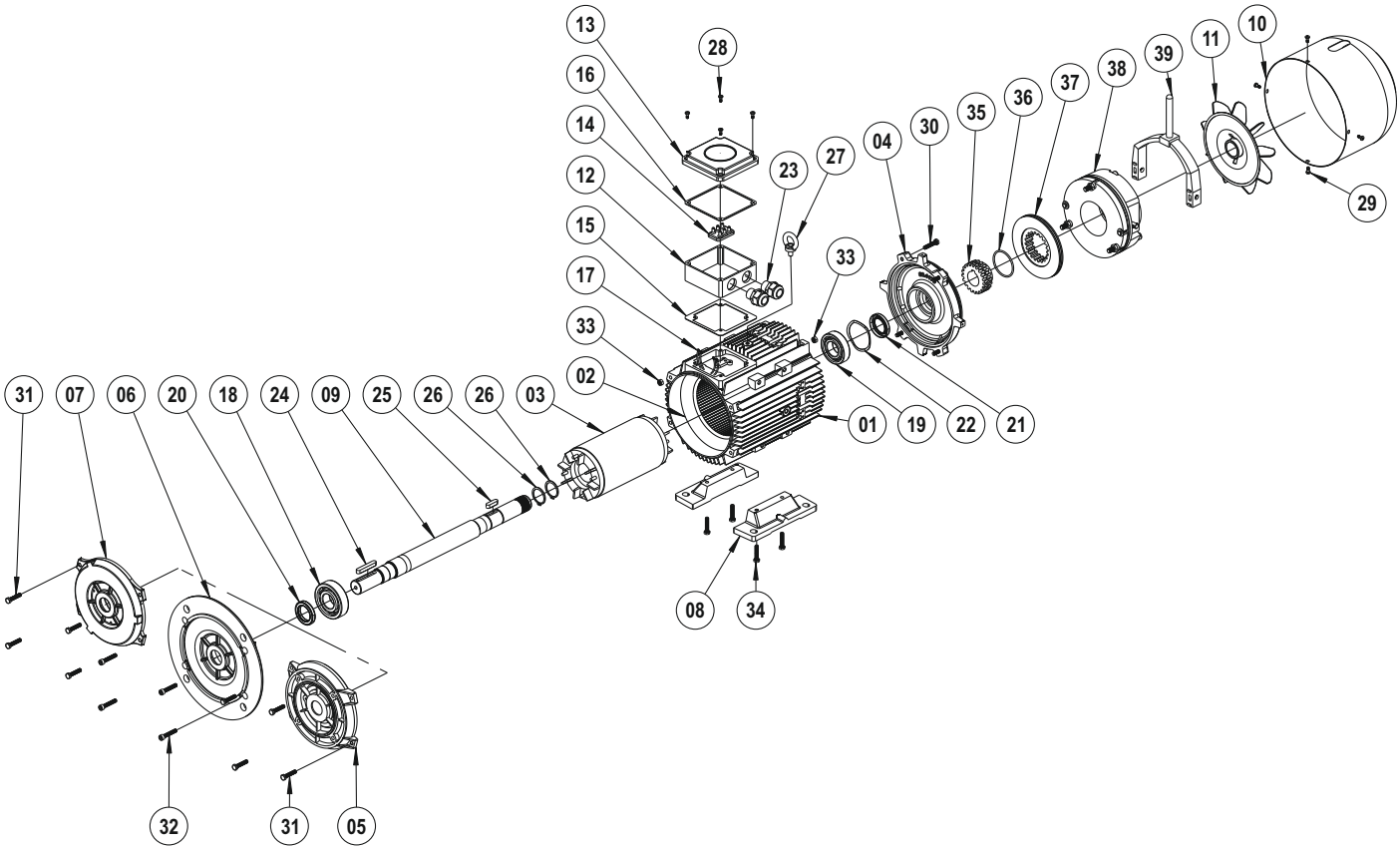


01	Gövde	01	Housing	01	Gehäuse
02	Sargılı Stator	02	Wound Stator	02	gewickelter Stator
03	Rotor	03	Rotor	03	Rotor
04	Motor Arka Kapağı	04	Nondrive - Endshield	04	B-Lagerschild
05	B3 Motor Bağlantı Flanşı	05	Flange	05	B3 Flansch
06	B5 Motor Bağlantı Flanşı	06	Flange	06	B5 Flansch
07	B14 Motor Bağlantı Flanşı	07	Flange	07	B14 Flansch
08	Ayak	08	Foot	08	Fuß
09	Motor Mili (Standart)	09	Drive Shaft (standard)	09	Antriebswelle (standart)
10	Fan Kapağı	10	Fan Cover	10	Lüfterhaube
11	Fan	11	Fan	11	Lüfter
12	Terminal Kutusu	12	Terminal Box	12	Klemmkasten
13	Terminal Kutu Kapağı	13	Terminal Box Cover	13	Klemmkastendeckel
14	Klemens Plakası	14	Terminal Plate	14	Anschlussplatte
15	Terminal Contası Alt	15	Terminal Gasket Down	15	Klemmkastendichtung unten
16	Terminal Contası Üst	16	Terminal Gasket Up	16	Klemmkastendichtung oben
17	Kablo Grubu	17	Lead Cables	17	Kabelbaum
18	Ön Rulman	18	Bal Bearing (Drive-Side)	18	Kugellager (Antriebsseite)
19	Arka Rulman	19	Bal Bearing (Non-Drive-Side)	19	Kugellager (Nicht-Antriebsseite)
20	Keçe (Ön)	20	Seal Ring (Front)	20	Dichtungsring (Vorne)
21	Keçe (Arka)	21	Seal Ring (Back)	21	Dichtungsring (Hinten)
22	Rulman Gergi Yayı	22	Bearing Shim	22	Stützscheibe
23	Rakor	23	Conduit	23	Gewindemuffe
24	Kama	24	Key	24	Passfeder
25	Mapa	25	Eye Bolt	25	Augenschraube
26	Yıldız Başlı Civata	26	Pan Head Screws	26	Kreuzschlitzschraube
27	Yıldız Başlı Civata	27	Pan Head Screws	27	Kreuzschlitzschraube
28	Civata DIN 933	28	Bolt	28	Schraube DIN 933
29	Civata DIN 933	29	Bolt	29	Schraube DIN 933
30	Civata DIN 933	30	Bolt	30	Schraube DIN 933
31	Civata DIN 912	31	Bolt	31	Schraube DIN 912
32	Somun	32	Nut	32	Schraubenmutter

TR 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

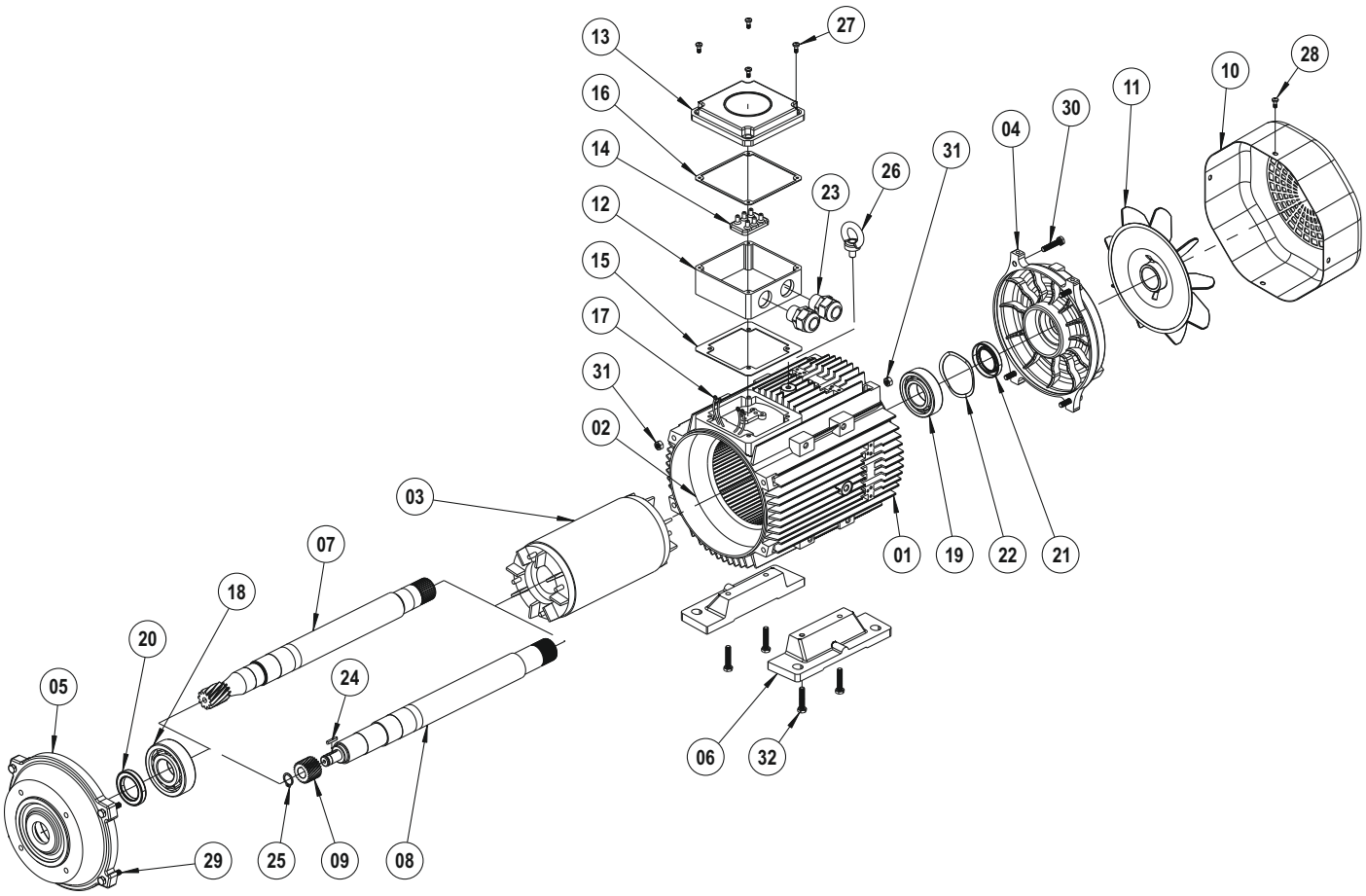


01	Gövde	01	Housing	01	Gehäuse
02	Sargılı Stator	02	Wound Stator	02	gewickelter Stator
03	Rotor	03	Rotor	03	Rotor
04	Fren Flanşı	04	Brake Connection Flange	04	Bremsflansch
05	B3 Motor Bağlantı Flanşı	05	Flange	05	B3 Flansch
06	B5 Motor Bağlantı Flanşı	06	Flange	06	B5 Flansch
07	B14 Motor Bağlantı Flanşı	07	Flange	07	B14 Flansch
08	Ayak	08	Foot	08	Fuß
09	Motor Mili (Standart)	09	Drive Shaft (standard)	09	Antriebswelle (standart)
10	Fan Kapağı	10	Fan Cover	10	Lüfterhaube
11	Fan	11	Fan	11	Lüfter
12	Terminal Kutusu	12	Terminal Box	12	Klemmkasten
13	Terminal Kutu Kapağı	13	Terminal Box Cover	13	Klemmkastendeckel
14	Klemens Plakası	14	Terminal Plate	14	Anschlussplatte
15	Terminal Contası Alt	15	Terminal Gasket Down	15	Klemmkastendichtung unten
16	Terminal Contası Üst	16	Terminal Gasket Up	16	Klemmkastendichtung oben
17	Kablo Grubu	17	Lead Cables	17	Kabelbaum
18	Ön Rulman	18	Bal Bearing (Drive-Side)	18	Kugellager (Antriebsseite)
19	Arka Rulman	19	Bal Bearing (Non-Drive-Side)	19	Kugellager (Nicht-Antriebsseite)
20	Keçe (Ön)	20	Seal Ring (Front)	20	Dichtungsring (Vorne)
21	Keçe (Arka)	21	Seal Ring (Back)	21	Dichtungsring (Hinten)
22	Rulman Gergi Yayı	22	Bearing Shim	22	Stützscheibe
23	Rakor	23	Conduit	23	Gewindemuffe
24	Kama	24	Key	24	Passfeder
25	Kama	25	Key	25	Passfeder
26	Segman	26	Circilip DIN 471	26	Sicherungsring DIN 471
27	Mapa	27	Eye Bolt	27	Augenschraube
28	Yıldız Başlı Civata	28	Pan Head Screws	28	Kreuzschlitzschraube
29	Yıldız Başlı Civata	29	Pan Head Screws	29	Kreuzschlitzschraube
30	Civata DIN 933	30	Bolt	30	Schraube DIN 933
31	Civata DIN 933	31	Bolt	31	Schraube DIN 933
32	Civata DIN 912	32	Bolt	32	Schraube DIN 912
33	Somun	33	Nut	33	Schraubenmutter
34	Civata DIN 933	34	Bolt	34	Schraube DIN 933
35	Fren Kaplini	35	Brake Coupling	35	Kupplung
36	O-Ring	36	O-Ring	36	O-Ring
37	Fren Balatası	37	Brake Lining	37	Bremsbelag
38	Fren	38	Brake	38	Bremse
39	Manuel Kolu	39	Hand Release	39	Handauslöser

TR MOTOR PARÇA LİSTESİ

EN THE MOTOR PART LIST

DE ERSATZTEILLISTE FÜR MOTOR

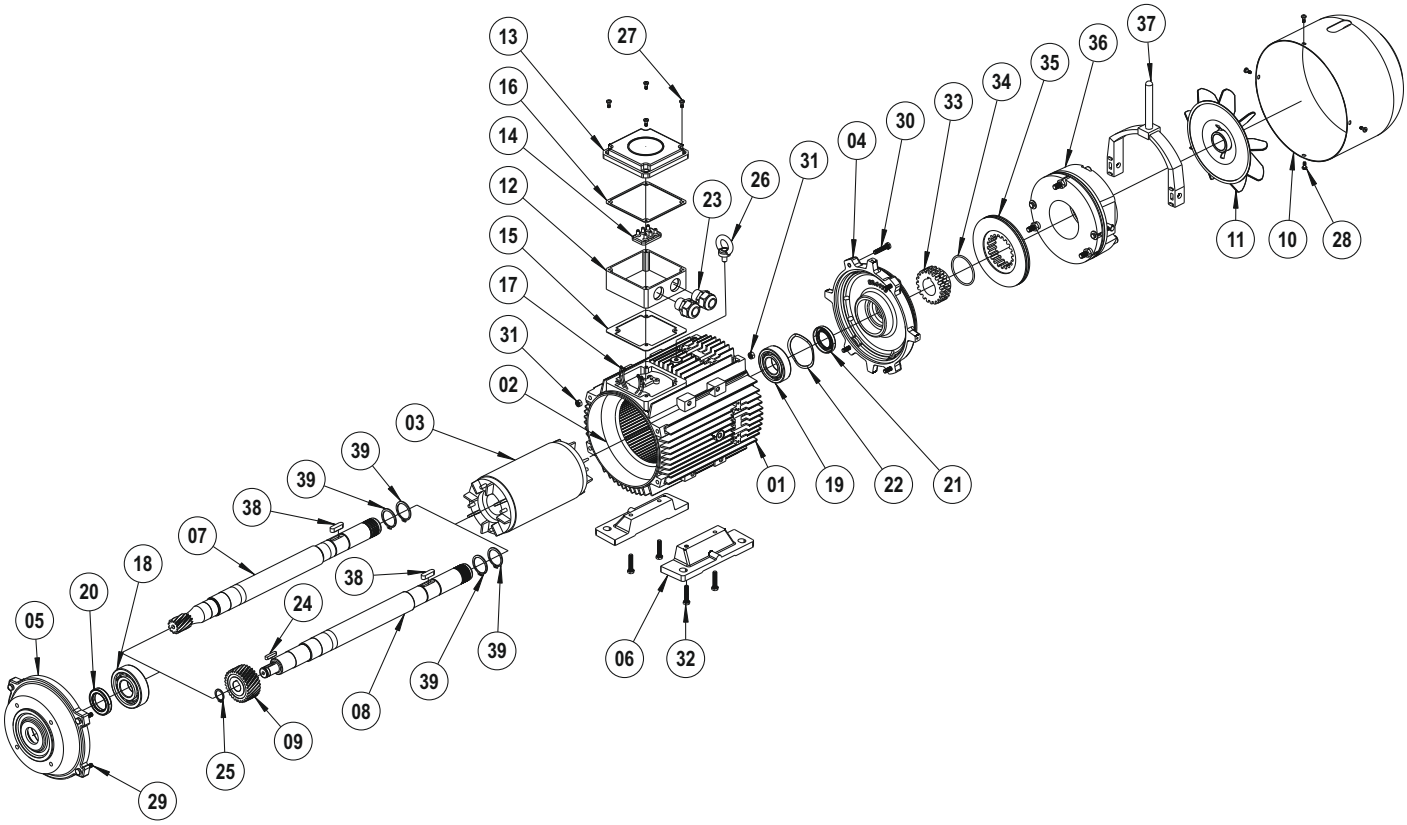


01	Gövde	01	Housing	01	Gehäuse
02	Sargılı Stator	02	Wound Stator	02	gewickelter Stator
03	Rotor	03	Rotor	03	Rotor
04	Motor Arka Kapağı	04	Nondrive - Endshield	04	B-Lagerschild
05	PGR Motor Bağlantı Flanşı	05	Moter Connection Flange	05	Moter-Anschlussflansch
06	Ayak	06	Foot	06	Fuß
07	Motor Mili (Yekpare)	07	Drive Shaft (Gearcut)	07	Antriebswelle (verzahnt)
08	Motor Mili (Çakma)	08	Drive Shaft (Plain)	08	Antriebswelle (glatt)
09	Z1 Dişlisi	09	Z1 Gear	09	Antriebsritzel
10	Fan Kapağı	10	Fan Cover	10	Lüfterhaube
11	Fan	11	Fan	11	Lüfter
12	Terminal Kutusu	12	Terminal Box	12	Klemmkasten
13	Terminal Kutu Kapağı	13	Terminal Box Cover	13	Klemmkastendeckel
14	Klemens Plakası	14	Terminal Plate	14	Anschlussplatte
15	Terminal Contası Alt	15	Terminal Gasket Down	15	Klemmkastendichtung unten
16	Terminal Contası Üst	16	Terminal Gasket Up	16	Klemmkastendichtung oben
17	Kablo Grubu	17	Lead Cables	17	Kabelbaum
18	Ön Rulman	18	Bal Bearing (Drive-Side)	18	Kugellager (Antriebsseite)
19	Arka Rulman	19	Bal Bearing (Non-Drive-Side)	19	Kugellager (Nicht-Antriebsseite)
20	Keçe (Ön)	20	Seal Ring (Front)	20	Dichtungsring (Vorne)
21	Keçe (Arka)	21	Seal Ring (Back)	21	Dichtungsring (Hinten)
22	Rulman Gergi Yayı	22	Bearing Shim	22	Stützscheibe
23	Rakor	23	Conduit	23	Gewindemuffe
24	Kama	24	Key	24	Passfeder
25	Segman	25	Circilip DIN 471	25	Sicherungsring DIN 471
26	Mapa	26	Eye Bolt	26	Augenschraube
27	Yıldız Başlı Civata	27	Pan Head Screws	27	Kreuzschlitzschraube
28	Yıldız Başlı Civata	28	Pan Head Screws	28	Kreuzschlitzschraube
29	Civata DIN 933	29	Bolt	29	Schraube DIN 933
30	Civata DIN 933	30	Bolt	30	Schraube DIN 933
31	Somun	31	Nut	31	Schraubenmutter
32	Civata DIN 933	32	Bolt	32	Schraube DIN 933

TR FRENLİ MOTOR PARÇA LİSTESİ

EN THE MOTOR PART LIST WITH BRAKE

DE ERSATZTEILLISTE FÜR MOTOR MIT BREMSE

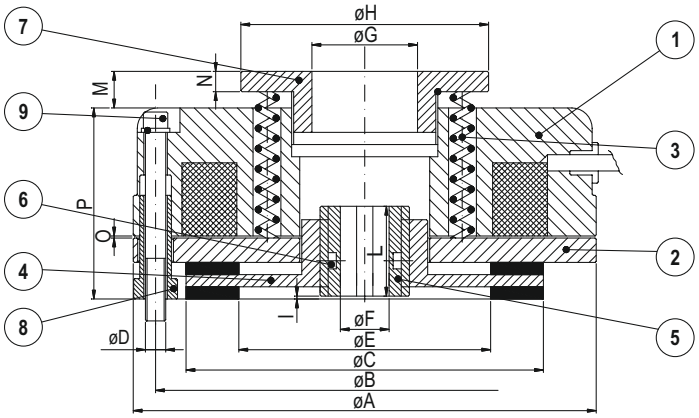


01	Gövde	**01**	Housing	**01**	Gehäuse
02	Sargılı Stator	**02**	Wound Stator	**02**	gewickelter Stator
03	Rotor	**03**	Rotor	**03**	Rotor
04	Fren Flanşı	**04**	Brake Connection Flange	**04**	Bremsflansch
05	PGR Motor Bağlantı Flanşı	**05**	Flange	**05**	Moter-Anschlussflansch
06	Ayak	**06**	Foot	**06**	Fuβ
07	Motor Mili (Yekpare)	**07**	Drive Shaft (Gearcut)	**07**	Antriebswelle (verzahnt)
08	Motor Mili (Çakma)	**08**	Drive Shaft (Plain)	**08**	Antriebswelle (glatt)
09	Z1 Dişlisi	**09**	Z1 Gear	**09**	Antriebsritzel
10	Fan Kapağı	**10**	Fan Cover	**10**	Lüfterhaube
11	Fan	**11**	Fan	**11**	Lüfter
12	Terminal Kutusu	**12**	Terminal Box	**12**	Klemmkasten
13	Terminal Kutu Kapağı	**13**	Terminal Box Cover	**13**	Klemmkastendeckel
14	Klemens Plakası	**14**	Terminal Plate	**14**	Anschlussplatte
15	Terminal Contası Alt	**15**	Terminal Gasket Down	**15**	Klemmkastendichtung unten
16	Terminal Contası Üst	**16**	Terminal Gasket Up	**16**	Klemmkastendichtung oben
17	Kablo Grubu	**17**	Lead Cables	**17**	Kabelbaum
18	Ön Rulman	**18**	Bal Bearing (Drive-Side)	**18**	Kugellager (Antriebsseite)
19	Arka Rulman	**19**	Bal Bearing (Non-Drive-Side)	**19**	Kugellager (Nicht-Antriebsseite)
20	Keçe (Ön)	**20**	Seal Ring (Front)	**20**	Dichtungsring (Vorne)
21	Keçe (Arka)	**21**	Seal Ring (Back)	**21**	Dichtungsring (Hinten)
22	Rulman Gergi Yayı	**22**	Bearing Shim	**22**	Stützscheibe
23	Rakor	**23**	Conduit	**23**	Gewindemuffe
24	Kama	**24**	Key	**24**	Passfeder
25	Segman	**25**	Circilip DIN 471	**25**	Sicherungsring DIN 471
26	Mapa	**26**	Eye Bolt	**26**	Augenschraube
27	Yıldız Başlı Civata	**27**	Pan Head Screws	**27**	Kreuzschlitzschraube
28	Yıldız Başlı Civata	**28**	Pan Head Screws	**28**	Kreuzschlitzschraube
29	Civata DIN 933	**29**	Bolt	**29**	Schraube DIN 933
30	Civata DIN 933	**30**	Bolt	**30**	Schraube DIN 933
31	Somun	**31**	Nut	**31**	Schraubenmutter
32	Civata DIN 933	**32**	Bolt	**32**	Schraube DIN 933
33	Fren Kaplini	**33**	Coupling	**33**	Kupplung
34	O-Ring	**34**	O-Ring	**34**	O-Ring
35	Fren Balatası	**35**	Brake Lining	**35**	Bremsbelag
36	Fren	**36**	Brake	**36**	Bremse
37	Manuel Kolu	**37**	Hand Release	**37**	Handauslöser
38	Kama	**38**	Key	**38**	Passfeder
39	Segman	**39**	Circilip DIN 471	**39**	Sicherungsring DIN 471

TR FREN PARÇA LİSTESİ

EN BRAKE PART LIST

DE BREMSE-TEILELISTE



1 Elektro mıknatıs
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 Tollerance 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	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.

POLAT GROUP REDÜKTÖR SAN. ve TİC. A.Ş.
● ATA OSB Mah. Astim 1.Cad. No: 4 Efeler - Aydın / TÜRKİYE
● T: +90 256 231 19 12 ● F: +90 256 231 19 17 ● info@pgr.com.tr ● www.pgr.com.tr