



EGE REDÜKTÖR



Monoblok Redüktörler Ürün Kataloğu
Monoblok Reducers Product Catalogue

MRA / MRF SERİSİ - MRA / MRF SERIES
MTA / MTF SERİSİ - MTA / MTF SERIES



" Ege Redüktör Makine San. ve Tic. Ltd. Şti." üretim hayatına 1987 yılında 200 m² alan ve 4 kişilik kadrosuyla Manisa' nın Turgutlu ilçesinde başlamıştır ve üretimine 1992 yılında " Ege Redüktör Makine San. ve Tic. Ltd. Şti."adını alıp, bugün 1000 m² kapalı alan 25'i teknik olmak üzere toplam 30 kişilik deneyimli kadrosuyla, CNC ve Universal tezgahlarıyla devam etmektedir.

Kurulduğumuz günden itibaren müşterilerimize en kaliteli ürünü en kısa zamanda ve en uygun fiyata teslim etmeyi kendimize ilke olarak kabul ettik. Bunu sağlayacak her türlü yeniliği yakından takip ederek bünyemize dahil ediyoruz.

İmalat sektöründe faaliyet gösteren firmamızın amacı, hızla gelişen günümüz teknolojisine uyum sağlayabilen, uzun ömürlü redüktörler imal etmektir. Sektördeki gelişmeleri yakından takip etmek ve bu gelişmelere dahil olabilmek amacıyla ile yurt içi ve yurt dışı fuarlarımıza sık sık sizlerle buluşuyoruz. Böylece görüşlerinizi ve eleştirilerinizi de değerlendirmeye imkanını da elde etmiş oluyoruz. Bu sayede her geçen gün sektörün ihtiyaçlarına cevap veren ve büyuyen bir oluşum içindeyiz.

Ege Redüktör ailesi olarak konveyör-bant imalatçılarından plastik imalatçılara kadar geniş bir müşteri yelpazesine; "Motor Akupleli, Helisel Dişlili", "Sonsuz Vidalı", "Delik Milli" ve "Yatık Paralel Milli" tip redüktörlerden oluşan ürün çeşitlerimizle, satış ve satış sonrası yedek parça, bakım seçenekleriyle cevap verebilmek için çalışmaktadır.

Seçiminizi kolaylaştmak ve redüktörlerle ilgili merak ettiklerinize cevap vermesi amacıyla uzman kadromuzun hazırladığı bu katalogu sunmaktan kıvanç duyuyoruz.

" Ege Redüktör Makine San. ve Tic. Ltd. Şti." was established in 1987 in Manisa - Turgutlu, its staff consisted of 4 men and it was settled on an area of 200 m². In 1992 it changed its title into **" Ege Redüktör Makine San. ve Tic. Ltd. Şti."**, it maintains its production with CNC and Universal workbenches, its personnel consists of experienced staff of 30 men of which 25 men are technicians in indoor area of 1000 m².

Our principle is to deliver the best product in the shortest time possible for the best price, since our first day. We follow each innovation which supplies the former mentioned occasions, and include it into our structure.

The purpose of our company which is operating in the production sector, is to produce durable gearboxes which can adapt itself to the rapidly developing current technology. We attend in local and foreign fairs with the aim to follow up closely the developments in the sector, and to be a part of the developments. This causes us to get the possibility to evaluate your opinions and criticisms. Each day we become more competent in supplying the needs of the sector, and maintain growing.

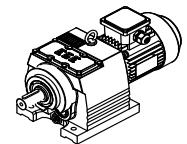
As the Ege Redüktör family we strive to reply the needs of a vast range of clients which range from conveyor band producers to plastic producers, with an assortment of gearboxes as "Helical Geared and Motorized" , "Worm Geared" , "Hollow Shaft" , and "Horizontal Parallel Shaft" , solid and post-sale spare parts, upkeep.

We're proud to present you this catalogue which was prepared by our team of experts with the aim to reply your questions about gearboxes and to ease your choice.

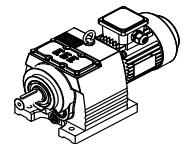
Saygılarımla ,

Mak. Müh. İsmail ULCAY

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TANITIM

Makine imalatı ve sanayide kullanılan redüktörlerimizin; sessiz çalışmasını, uzun ömürlü ve yüksek verimli olmasını sağlayan gövdeler ve dişli grubu elemanları, ileri teknoloji ile donatılmış geniş makine parkımızda bulunan CNC Dik İşlem Merkezleri, CNC Torna, Dişli Profil Taşlama, Silindirik, Taşlama ve Sonsuz Vida Taşlama tezgahlarında yüksek hassasiyetle işlenmektedir.

Gelişen teknoloji ve ihtiyaçlar, mevcut ürünlerin optimizasyonunu ve yeni ürünlerin tasarımını zorunlu kılmıştır. Bu sebeple AR-GE çalışmalarına önem veren firmamızın bu yöndeki yatırımları gün geçtikçe artmaktadır, CAD (Bilgisayar Destekli Tasarım) ortamında yeni modeller tasarlanmaktadır ve bu yeni ürünlerin gövdeleri ve dişli gruplarının analizleri CAE yardımıyla yapılmakta böylece gövde ve dişli mukavemetleri hızlı ve güvenilir şekilde tespit edilmektedir.

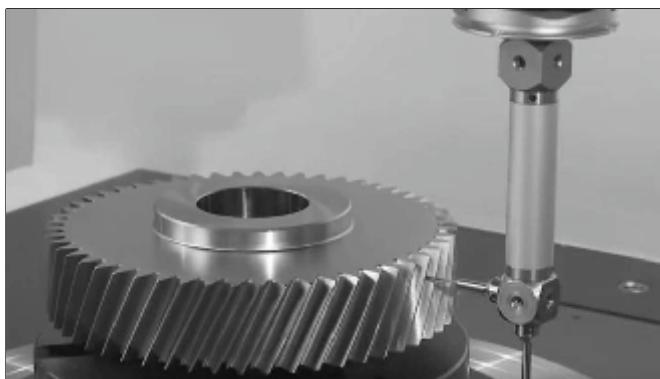
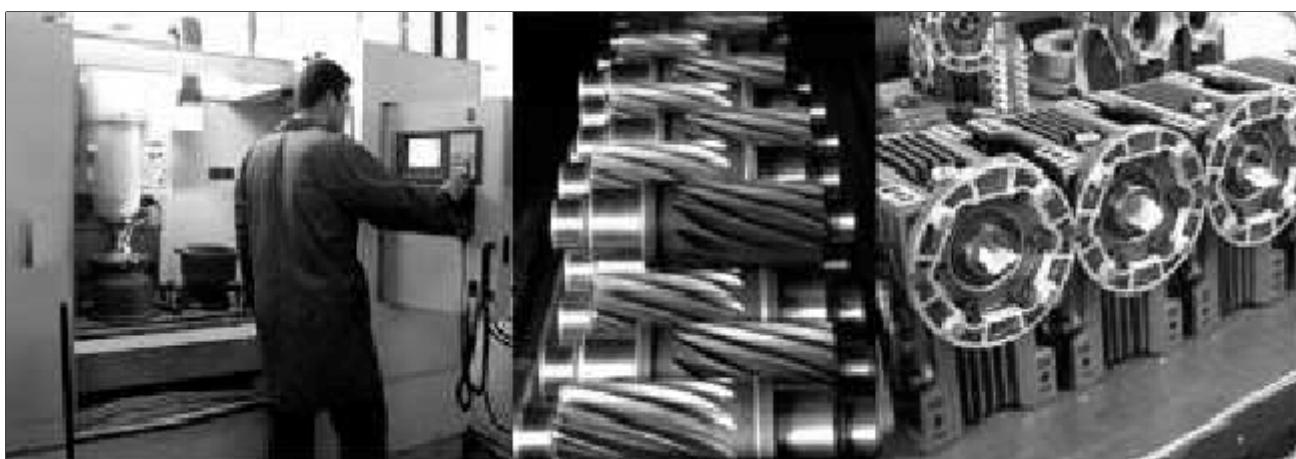
İç pazarda kalitesiyle, hızlı hizmet anlayışı, müşterilerine verdiği güven, hızlı hizmet anlayışı ve sağladığı ürün garantisile hızla yükselen EGE REDÜKTÖR markası, Avrupa'ya ve Orta Doğu ülkelere yaptığı ihracatlarla yurt dışı pazarında da kendini kanıtlayarak aranan bir marka haline gelmiştir.

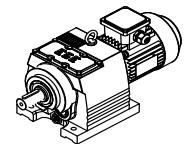
INTRODUCTION

The trunks and gear group elements which cause the gearboxes (which are used for the production of machine industry) to operate silently, and to be long lasting and be productive are present in our vast machine park which is equipped with high technology. The worm gear grinding workbenches are processed with high sensitivity.

The developing technology and requirements have made the designation of new products and the optimization of available products mandatory. Because of this increases the investments of our company in order to display achievements in the field of research and development which is highly esteemed by the company. New models are designed with CAD and analysis of gear groups of the new products are made with the help of CAE; this causes the resistance of the trunks and gear groups to be determined in fast and secure way.

The brand "Ege Redüktör" has experienced a rapid achievement with its quality which displays itself in the local market, and its rapid service perceptiveness. It has also turned out to be a prominent brand, by having proved itself in the foreign market by carrying out exports to countries in Europe and the Middle East.





GENEL BİLGİLER

Seri üretimimizi oluşturan çeşitli hizmet ihtiyaçlarını karşılayan başlıca ürünler;

1. Monoblok Gövdeye Sahip Ayaklı/Flanşlı Seçenekleri Bulunan Hesimal Dişli Yardımı İle Aktarım Yapan Giriş Ve Çıkış Milleri Aynı Düzlemdede Ve Birbirine Paralel Uzanan Motorlu (Yada Motorsuz) Redüktörler ~ MRA ~ MRF ~ MTA ~ MTF
2. Ayaklı / Flanşlı Hesimal Dişlili Motorlu (ya da Motorsuz) Redüktörler ~ A-F-T
3. Sonsuz Vidalı Döküm ve Alüminyum Gövdeli Redüktörler ~ ERS
4. Delik Şaftlı Tek ve Çift Kademeli Redüktörler ~ EP
5. D Tip Monoblok Gövdeli Delik Şaftlı Redüktörler ~ED
6. Yatık Paralel Milli ve Yatık Paralel Milli Ekstruder Tip Redüktörler ~ K ve EK redüktörler olarak sıralanmaktadır.

“Ege Redüktör Markası” ile üretilen redüktörlerin gövdeleri; pik ve alüminyum döküm olmak üzere iki çeşittir. Alüminyum enjeksiyon gövdeler; ETİ-AL 171 malzemesinden ve metal enjeksiyon makinalarında, pik döküm gövdeler ise GG24 malzemeden imal edilmektedir.

Redüktörlerde kullanılan “Hesimal Dişliler” ve “Sonsuz Vidalar” 8620 (21NiCrMo2) sementasyon çeliğinden imal edilmekte ve 58 ~ 60 HRC değerinde sertleştirilmektedir.

Dişlilere sementasyon işlemi uygulandıktan sonra profilleri taşlanarak, redüktörlerin sessiz çalışması, uzun ömürlü yüksek verimli ve yüksek mukavemetli olması sağlanır.

Sonsuz vida çark dişlileri; GGG50 sfero çıkış mili üzerine CuSn12 Bronz合金ının dökülmesiyle elde edilen yekpare bir yapıdır. Bu yapı sayesinde farklı yönde etki eden yüklerle karşı oldukça mukavim sistem elde edilmiş olur.

Redüktörün çalışma sıcaklığı -30 0C' den düşük 60 0C' den yüksek olması durumunda özel keçeler kullanılması gerekmektedir.

0 °C' nin altında çalışan redüktörlerin de özel gereksinimleri vardır.

GENERAL INFORMATIONS

The main products which composes our serial manufacture to handle with various duty requirements compiled as;

1. “Monoblok” Gearbox Can Be Connected To The Machine By Using The Foot Or Flange On The Gearbox. The Input And Output Shafts Are Parallel To Each Other And On The Same Plane. The Gearbox Can Be Motorized (Or Non Motorized) ~ MRA ~ MRF ~ MTA ~ MTF
2. Foot / Flange Mounted Helical Geared Motorized (or Non - Motorized) Gearboxes ~ A-F-T
3. Worm Geared Gearboxes With Cast Iron and Aluminum Injection Body
4. Hollow Shaft, Single or Double Stage Gearboxes ~ EP
5. D Type Hollow Shaft Gearboxes With Monoblock Body ~ ED
6. Horizontal Parallel Axle and Extruder Parallel Axle Type Gearboxes ~ K and EK

The bodies of the gearboxes manufactured as the trade mark of “Ege Redüktör Mak. San” are two types as cast iron and aluminum die casting. Aluminum injection bodies are made by the material ETİ-AL 171 and by die casting moulding, cast iron bodies are made by the material GG24.

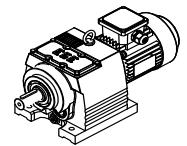
The “Helical Gears” and “Worm Gears” used in the gearboxes are made by 8620 (21NiCrMo2) case hardening steel and hardened to the value of 58 ~ 60 HRC.

After case hardening the gears the teeth profiles are grinding so the gearboxes become silent, long lifed, high efficiency.

Worm gear cogwheels are monobloc bodies made by, over GGG50 output shaft, CuSn12 Bronze alloy. By this body we have a quite durable system to the loads which effects from different directions.

When the temperture of the gearboxes operating ambient is lower than - 30 0C and higher than 60 0C then special seals must be used.

The gearboxes which work under 0 °C needs special requirements. These are:

**✓ TİP TANIMLAMALARI:****Monoblok Gövdeli Ayaklı/Flanşlı Helişel Dişli Redüktörler:**

Bu tip redüktörlerimiz; on üç farklı boyda ana gövde tipine sahiptir. Ayaklı ve flanşlı olmak üzere iki ana çeşide ayrılan ürünümüz her iki çeşit içinde 0,12 kw-160 kw güç aralığında toplamda 6 kademeye ulaşan aktarmalı ve çift redüktörlü seçenekleri ile 0,1 d/d-500 d/d devir aralığında geniş ürün yelpazesine sahiptir.

✓ TYPE DESCRIPTIONS:**Monoblock house Foot / Flange Mounted Helical Geared Reducers:**

In our these type gearboxes; there are thirteen main bodies. The gearbox can be connected to the machine by using the foot or flange on the gearbox. 0.12 kw ~ 160 kw power range; 0,1 r.p.m ~ 500 r.p.m. Gained by stages, motorized and non-motorized options.

MRA... Monoblok tip, ayaklı, motorlu, helisel dişli redüktörler / Monoblock type helical geared motors, foot mounted.

MRF... Monoblok tip flanşlı motorlu helisel dişli redüktörler / Monoblock type helical geared motors, flange mounted.

MTA... Monoblok tip mil girişi, ayaklı motorsuz hesel dişli redüktörler / Monoblock type helical geared units with solid input shaft, foot mounted.

MTF... Monoblok tip mil girişi, flanşlı, motorsuz helisel dişli redüktörler / Monoblock type helical geared units with solid input shaft, flange mounted.

MNFA... Monoblok tip, helisel redüktörler, motorsuz, IEC B5/B14 flanşlı, ayaklı / Monoblock type helical geared units with IEC B5/B14 motor flange, foot mounted

MNF... Monoblok tip, helisel redüktörler, motorsuz, IEC B5/B14 flanşlı, çıkış flanşlı / Monoblock type helical geared units with IEC B5/B14 motor flange, flange mounted

MVA... Monoblok tip, helisel redüktörler, IEC B5/B14 flanşlı, motorlu, ayaklı / Monoblock type helical geared motors with IEC B5/B14 motor flange, foot mounted

MVF... Monoblok tip, helisel redüktörler, IEC B5/B14 flanşlı, motorlu, flanşlı / Monoblock type helical geared motors with IEC B5/B14 motor flange, flange mounted

MRFA... Monoblok tip, helisel redüktörler, ayaklı, çıkış flanşlı, motorlu / Monoblock type helical geared motors, foot mounted, with output flange

MNFA... Monoblok tip, helisel redüktörler, ayaklı, çıkış flanşlı, motorsuz, IEC B5/B14 flanşlı / Monoblock type helical geared units, foot mounted, with IEC B5/B14 flange, with output flange

MVFA... Monoblok tip, helisel redüktörler, ayaklı, çıkış flanşlı, motorlu, IEC B5/B14 flanşlı / Monoblock type helical geared motors, foot mounted, with IEC B5/B14 flange, with output flange

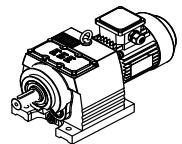
MTFA... Monoblok tip, helisel redüktörler, ayaklı, çıkış flanşlı, motorsuz, giriş milli / Monoblock type helical geared units, foot mounted, with solid input shaft, with output flange

MRB... Monoblok tip, helisel redüktörler, agitator boğazlı, motorlu / Monoblock type helical geared motors, with agitator output flange

MNB... Monoblok tip, helisel redüktörler, agitator boğazlı, motorsuz, IEC B5/B14 flanşlı / Monoblock type helical geared units, with agitator output flange with IEC B5/B14 flange

MVB... Monoblok tip, helisel redüktörler, agitator boğazlı, motorlu, IEC B5/B14 flanşlı / Monoblock type helical geared motors, with agitator output flange with IEC B5/B14 flange

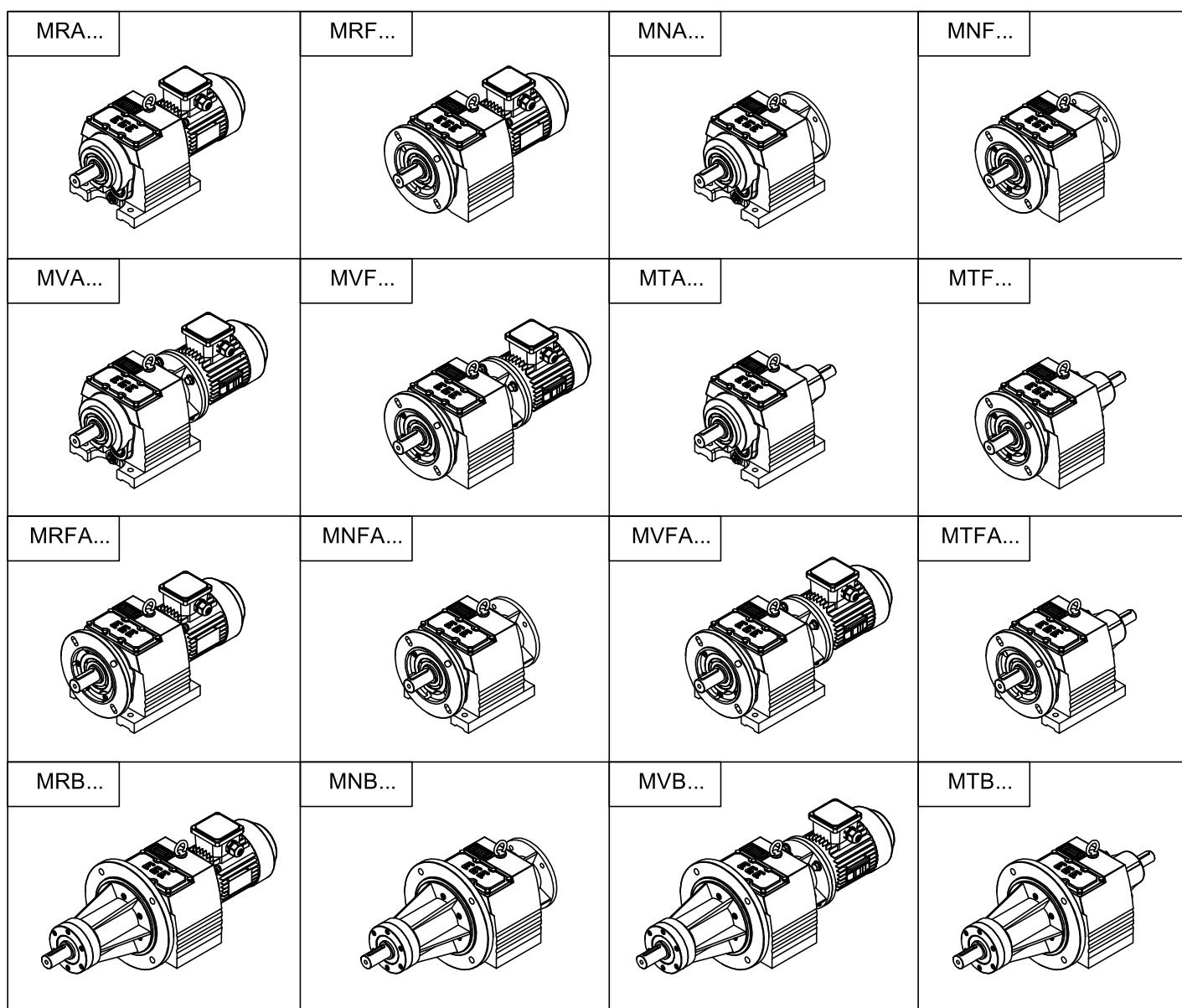
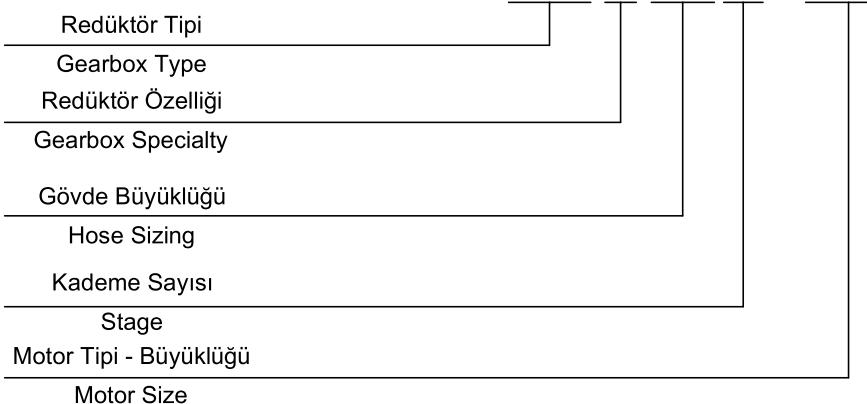
MTB... Monoblok tip, helisel redüktörler, agitator boğazlı, motorsuz, mil girişi / Monoblock type helical geared units, with agitator output flange, with solid input shaft

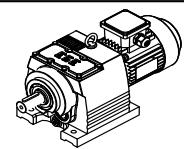


✓ **TİP TANIMLAMALARI / TYPE DESCRIPTIONS :**

Tip / Type :

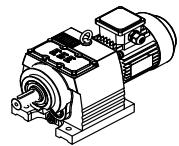
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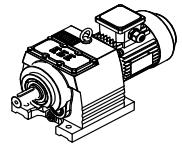
Motor Büyüklüğüne Göre Çevrim Oranları / Combinations of Ratio According to Motor Size:

TİP TYPE	KADEME STAGES	63	71	80	90	100	112	132
MRA002	2	3,58 - 11,09	3,58 - 11,01	3,58 - 11,01	3,58 - 11,01			
MRA003	3	13,45 - 44,96	13,45 - 44,64	13,45 - 31,64	13,45 - 14,49			
MRA102	2		12,99 - 15,76	4,52 - 15,76	3,89 - 15,76			
MRA103	3	34,79 - 49,90	17,12 - 49,90	17,12 - 44,06	17,12 - 24,56			
MRA172	2			10,95 - 20,67	3,34 - 22,73	3,34 - 14,40	3,34 - 6,52	
MRA173	3	49,21 - 98,73	25,79 - 98,02	25,79 - 57,07	22,95 - 46,82			
MRA202	2			15,84 - 22,73	5,73 - 22,73	3,46 - 19,86	3,46 - 10,68	
MRA203	3	67,21	35,59 - 67,21	25,95 - 67,21	22,95 - 35,59	22,95		
MRA272	2				11,81 - 25,58	4,48 - 21,17	4,48 - 15,88	
MRA273	3	113,5 - 139,52	59,93 - 138,52	30,11 - 138,52	30,11 - 72,47	25,24 - 36,11	18,77	
MRA275	5	150,07 - 833,23	252,15 - 358,26					
MRA276	6							
MRA282	2				14,14 - 30,01	3,60 - 24,93	3,11 - 18,83	3,11 - 14,14
MRA283	3		84,57 - 137,88	41,46 - 137,88	41,46 - 96,45	30,45 - 53,47		
MRA284	4	240,42 - 434,20	240,42 - 431,09					
MRA285	5	494,94 - 1215,43						
MRA286	6							
MRA372	2				18,23 - 23,05	8,15 - 23,05	6,76 - 20,37	3,70 - 16,01
MRA373	3		96,74 - 157,73	47,42 - 157,73	47,42 - 138,69	24,97 - 61,17	21,39 - 34,83	18,46 - 24,97
MRA374	4	369,86 - 527,74	275,02 - 523,97	275,02				
MRA375	5	537,44 - 1390,37						
MRA376	6							
MRA472	2						15,17 - 21,88	6,7 - 21,88
MRA473	3			90,48 - 218,96	90,48 - 218,96	30,56 - 139,51	25,36 - 72,21	25,36 - 55,15
MRA474	4		295,92 - 674,33	346,00 - 529,82				
MRA475	5	941,48 - 2540,50	1285,53					
MRA476	6							
MRA572	2						22,74 - 26,68	12,35 - 26,68
MRA573	3					31,00 - 167,29	31,00 - 134,42	31,00 - 81,46
MRA574	4		291,19 - 574,79	144,34 - 574,79	144,34 - 402,04			
MRA575	5	1140,42 - 2796,31	963,86 - 4758,26					
MRA576	6	2870,16 - 4433,47						
MRA672	2							20,49 - 22,90
MRA673	3						110,53 - 196,57	29,84 - 149,08
MRA674	4			280,96 - 442,11	215,93 - 500,29			
MRA675	5		730,31 - 2578,41	874,39 - 1259,29				
MRA676	6		2831,82 - 3341,76					
MRA772	2							
MRA773	3							67,33 - 208,78
MRA774	4			418,09 - 594,80	273,80 - 594,80	190,92 - 594,80		
MRA775	5		983,98 - 4811,13	983,98 - 2032,25	983,98 - 1252,35			
MRA776	6		5201,16 - 5948,64					
MRA872	2							
MRA873	3							98,61 - 110,15
MRA874	4					107,58 - 446,33	174,65 - 390,66	125,67 - 345,60
MRA875	5		1521,25 - 1923,94	915,67 - 1923,94	537,64 - 1335,88	718,60 - 1210,27		
MRA876	6		2107,91 - 7231,55	2107,91 - 3891,52				
MRA972	2							
MRA973	3							
MRA974	4					344,10 - 510,01	215,99 - 510,01	172,05 - 510,01
MRA975	5			1368,00 - 2027,56	662,41 - 2027,56	546,83 - 1213,61	546,83 - 662,41	546,83 - 662,41
MRA976	6			2836,07 - 5356,36	2836,07			



Motor Büyüklüğüne Göre Çevrim Oranları / Combinations of Ratio According to Motor Size:

TİP TYPE	KADEME STAGES	160	180	200	225	250	280	315
MRA002	2							
MRA003	3							
MRA102	2							
MRA103	3							
MRA172	2							
MRA173	3							
MRA202	2							
MRA203	3							
MRA272	2							
MRA273	3							
MRA275	5							
MRA276	6							
MRA282	2							
MRA283	3							
MRA284	4							
MRA285	5							
MRA286	6							
MRA372	2							
MRA373	3							
MRA374	4							
MRA375	5							
MRA376	6							
MRA472	2	3,23 - 17,04	3,23 - 13,40					
MRA473	3	17,82 - 21,48						
MRA474	4							
MRA475	5							
MRA476	6							
MRA572	2	4,32 - 22,74	4,32 - 18,92	4,32 - 14,37				
MRA573	3	26,22 - 39,50						
MRA574	4							
MRA575	5							
MRA576	6							
MRA672	2	7,82 - 22,90	3,74 - 22,90	3,25 - 17,71	3,25 - 11,83			
MRA673	3	26,34 - 60,68	26,34 - 38,83					
MRA674	4							
MRA675	5							
MRA676	6							
MRA772	2	21,14	14,37 - 21,14	9,50 - 21,14	6,08 - 14,37	6,08 - 14,37		
MRA773	3	22,35 - 133,02	22,35 - 75,89	22,35 - 34,47	17,19 - 30,74	17,19 - 22,35		
MRA774	4							
MRA775	5							
MRA776	6							
MRA872	2				4,27 - 9,97	4,27 - 9,97	4,27 - 9,97	
MRA873	3	40,06 - 110,15	40,06 - 110,15	13,85 - 74,60	11,45 - 45,57	11,45 - 34,12	11,45 - 27,06	
MRA874	4							
MRA875	5							
MRA876	6							
MRA972	2					14,23 - 16,04	7,02 - 16,04	7,02 - 16,04
MRA973	3	54,14 - 186,91	36,84 - 166,70	29,14 - 90,46	17,93 - 69,23	17,93 - 54,14	17,93 - 36,84	17,93 - 22,67
MRA974	4							
MRA975	5							
MRA976	6							



✓ SERVİS FAKTÖRÜ:

Redüktörlerin çalışma şartlarına bağlı olarak üzerlerine gelen farklı kuvvetler nedeniyle farklı yüklerle maruz kalırlar. Uzun yıllar boyu gözlenen çalışma şartlarına bağlı olarak yapılan hesaplamalar; güç kaynağı ile tahrik edilen tarafta bulunan makina ve makina elemanlarının cinsine göre farklı değerde emniyet katsayılarını kullanma zorunluluğunu gündeme getirmiştir.

İşte bu redüktörün, çalıştığı şartlar ile uyumlu olması için gerekli olan emniyet katsayısı "Servis Faktörü" dür.

Servis faktörünü etkileyen parametreler:

1. Yük Sınıfı
2. Saatteki Start Sayısı
3. Günlük Çalışma Süresi
4. Redüktörün Tahrik Tipi

olarak sıralanabilir. Bu özelliklerden de anlaşılacağı gibi servis faktörü, bir redüktörün karakteristğini ortaya koyan bir kavramdır.

✓ SERVICE FACTOR:

Gearboxes exposure different types of loads causing different operating conditions. Experiences of a long time period has shown us to consider different values of service coefficient due to different power supply and machine equipment.

The safety coefficient which is important for concordance of operating conditions and gearboxes called "Service Factor".

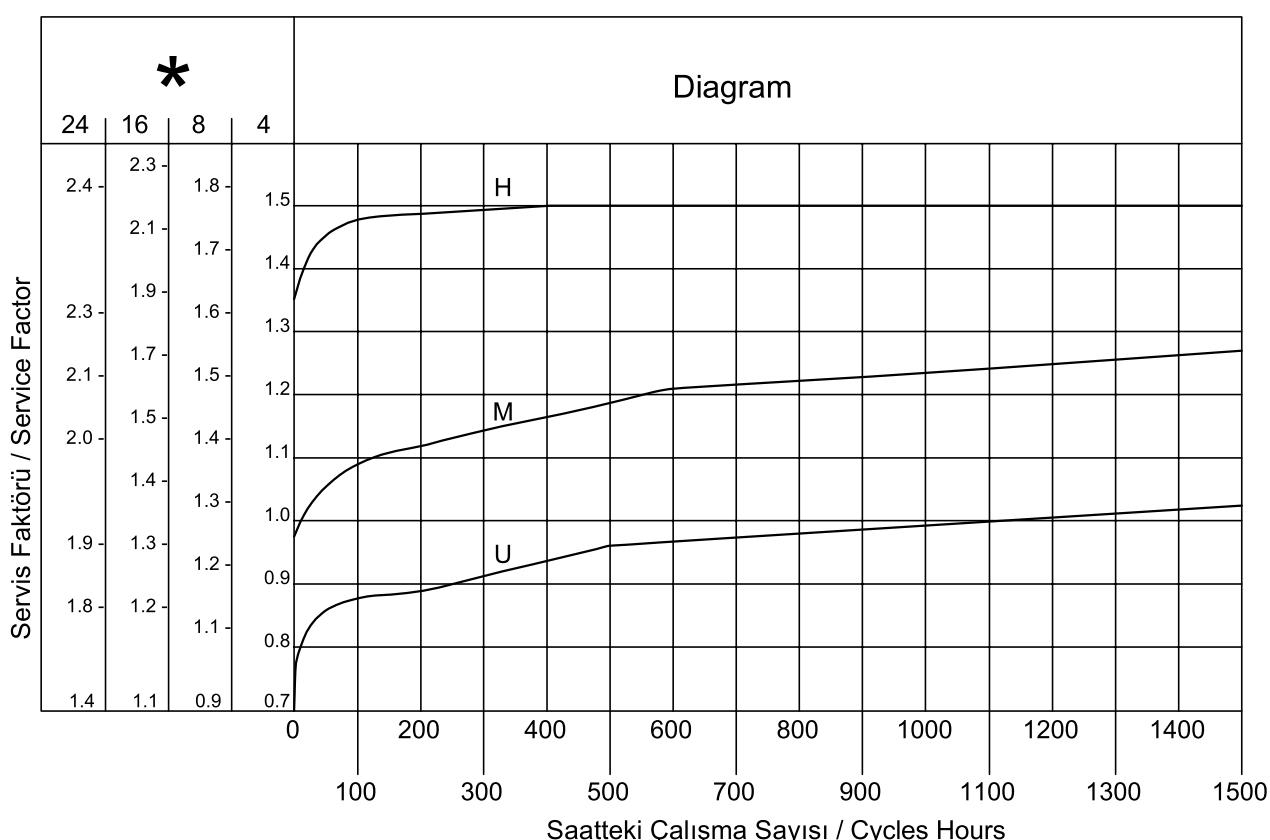
The parameters which effects service factor:

1. Load classification
2. Number of start per hour
3. Daily operating time
4. Type of gearboxes turning on

As understood by these parameters, service factor is a concept which explains the character of a gearbox.

* Günde Çalışma Süresi (saat / gün)

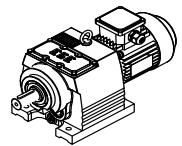
* Operating Time Hours (hours / day)



U : Düzgün ve sabit yükler / Uniform loads

M : Orta darbeli yükler / Moderate loads

H : Ağır darbeli yükler / Heavy shock loads



✓ YÜK SINIFLANDIRMASI:

Krenler	
U	Kaldırma Dişlileri
	Planga Dişlileri
M	Bomlu Vinç Dişlileri
	Yana Döndürme Dişlileri
H	Yürütmeye Dişlileri

Pompalar	
U	Santrifüj Pompalar (İnce Sıvı)
M	Santrifüj Pompalar (Yarı Sıvı)
H	Basınçlı Pompalar
	Yana Döndürme Dişlileri

Taş ve Kıl İşleme Makineleri	
H	Çekici Değirmenler
	Döner Fırınlar
	Dövücü Değirmenler
H	Kırıcılar
	Küreli Değirmenler
	Tuğla Presi
	Tüp Değirmenler

Tekstil Makineleri	
M	Basma ve Boyama Makineleri
	Dokuma Tezgahları
H	Hallaç Makineleri
	Harman Makineleri
	Taneleme (Debaget) Makineleri

Yağ Sanayi	
M	Besleme Pompaları
	Döner Delme Tehcizatları

Yiyecek Sanayi	
M	Kutu Bıçaklar
	Kutu Kaplama
	Mayalamaya Tekneleri
H	Kenar Açma

Çamaşır Yıkama Makineleri	
M	Döner Kurutucular
	Yıkama Makineleri

Hatte Makineleri	
M	Hız Ayarlı Silindirler
	Sabit Silindirler
	Sarma Makaraları
	Tel Çekme
	Çubuk Kesme Makineleri
	Döner Tablalar
	Kabuk Sıyrma
	Plaka Haddeleme
H	Silindir Haddeleme
	Soğuk Haddeleme

İnşaat Makineleri	
M	Beton Mikserleri
	Ağır Yük Asansörleri
Kağıt Makineleri	
H	Islak Presler
	Kağıt Hamur Makineleri
	Kurutma Silindirler
	Perdahlama Silindirler

✓ LOAD SPECIFICATION:

Cranes	
U	Hoist Gears
	Lifting Gears
M	Defrocking jib Gears
	Slowing Gears
H	Travelling Gears

Pumps	
U	Centrifugal Pumps (light liquids)
M	Centrifugal Pumps (semi liquids)
H	Pressure Pumps
	Plunger Pumps

Stone and Clay Working Machines	
H	Hammer Mills
	Rotary Ovens
	Rotary Ovens
H	Beater Mills
	Breakers
	Ball Mills
	Brick Presses

Textile Machines	
M	Printing and Dyeing Machines
	Looms
H	Willow
	Batchers
	Tanning Vats

Oil Industry	
M	Pipeline Pumps
	Rotary Drilling Equipment

Food Industry	
M	Cane Knives
	Cane Crushers
	Mach Tubs
H	Cane Mills

Laundries	
M	Tumblers
	Washing Machines

Metal Rolling Mills	
M	Roller Adjustments Drives
	Roller Straightened
	Winding Machines
	Wire Drawing Benches
	Billet Shears
	Rollers Tables(heavy)
	Descaling Machines
	Sheet Mills
	Manipulators
H	Cold Rolling Mills

Building Machines	
M	Concrete Mixers
	Hoist
Paper Machines	
H	Wet Presses
	Pulpers
	Drying Cylinders
	Glazing Cylinders

Rubber Machinery	
M	Calenders
	Mixers
	Extruders
	Pug Mills
H	Rolling Mills

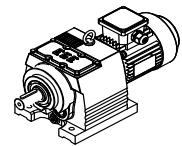
Chemical Industry	
M	Agitators
	Drying Drums
	Mixers and Rolling Mills

Conveyors	
M	Band Pocket Conveyors
	Steel Belt Conveyors
	Belt Conveyors
H	Hoists
	Bulk Belt Conveyors

U : Düzgün ve sabit yükler / Uniform loads

M : Ortalı darbeli yükler / Moderate loads

H : Ağır darbeli yükler / Heavy shock loads



✓ YAĞLAMA:

Redüktörde kullanılacak yağ; redüktörün kullanım ortamına, yapılan işleme, devir sayısına bağlı olarak seçilmelidir.

Kullanılan yağın karakteristigiini belirleyen etmenler:

1. Yağ Bazi
2. Viskozite
3. Katkı Maddeleri

1. Yağ Bazi:

Kullanılan yağ sentetik ya da mineral bazlı olabilir.

Sentetik yağların maliyeti, mineral bazlı yağlara göre yüksek olup avantajları aşağıda belirtilmiştir.

1. Düşük sürtünme katsayısına sahiptir böylece yüksek verimle çalışır.
2. Kimyasal yapısını uzun zaman korur, bu da yağ ömrünün uzamasını sağlar.
3. Daha iyi viskozite içeriğine sahip olmasıyla değişik sıcaklık şartlarına daha iyi uyum sağlar.

Madeni yağların, sentetik yağlara tercih edilmesinin sebebi; sentetik yağlarda gözlenen kolay tutuşabilme, zehirleme, her malzemeyle uyum sağlayamama, her katkıyı içinde çözümlenmemesi ve yüksek fiyat gibi dezavantajlara sahip olmamasıdır.

2. Viskozite:

Redüktörlerde kullanılan yağın viskozitesi ilk çalışma anında yüksektir. Eğer mümkünse, yağ viskozitesini düşürmek amacıyla, redüktör yüksüz olarak birkaç dakika çalıştırılmalıdır.

Kullanılan yağın viskozitesi redüktörün sıcaklığına ve hızına bağlı olarak değişir.

Yüksek viskozite; düşük devirli ve/veya yüksek sıcaklıkta çalışan redüktörler için tavsiye edilir.

Düşük viskozite ise yüksek dönme hızı ve/veya düşük sıcaklıkta çalışan redüktörler için tavsiye edilir.

3. Katkı Maddeleri:

Tüm mineral yağlar; aşınmayı, oksidasyonu ve köpürmeyi önlemek amacıyla katkı maddesi içerirler. Bu katkı maddeleri, çalışıkları ortam ve makina elemanları için (özellikle yağ keçeleri) bir sorun teşkil etmezler.

Tüm redüktörlerimiz, gerekli yağ miktarları doldurularak sevk edilir.

✓ LUBRICATION:

The lubricant used in the gearbox must be chosen for the workin ambient, process and the r.p.m.

The parameters which effects on lubricant

1. Lubricant base
2. Viscosity
3. Additive mater

1. Lubricant Content:

The lubricant can be synthetic or mineral content.

Synthetic lubricant is expensive but have the advantages as told below.

1. Its friction coeffeciant is lower so works with high efficiency.
2. Keeps its chemical structure for long time so it means lond life lubricant.
3. Concordance of various temperture conditions by having a better viscosity content.

Mineral lubricants are prefered to synthetic lubricants have the disadvantage of catching fire easily, botulism, missolve the additives, high cost, mismatch the other maters.

2. Viscosity:

At the begining the viscosity of the lubricant higher. If it is possible to decrease the viscosity gearbox should be turned on for while.

The viscosity of the lubricant changes according to the temperture and speed.

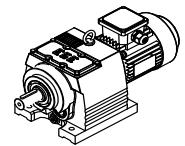
High viscosity; it is recommended for low r.p.m. and / or high temperture of operating ambient.

Low viscoicity; it is recommended for high r.p.m. and / or low low temperture of operating ambient .

3. Additive Maters:

All the lubricants contain additives to prevent corrosion, oxidation, frothing. These additives don't cause any problem neither for the operating ambient nor the machine element (esp. for the seals)

All of our gearboxes sent to the customers after filling in enough lubricant.



✓BAKIM:

Mineral yağ kullanılması durumunda; yağ, ilk kullanımından 500 - 1000 çalışma saatı sonra değiştirilmeli ve redüktörün iç kısmı iyi bir şekilde temizlenmelidir. Yağ seviyesi 4000 çalışma saatinden sonra düzenli olarak kontrol edilmelidir ve gerekli ise yağ ilave edilmelidir.

Sentetik yağ kullanılmış ise yağ 12.500 çalışma saatine kadar sorun çıkarmadan çalışır.

Eğer yüksek neme maruz ortamda uzun süre kullanılmadan muhafaza edilecekse bu durumda redüktör yağıla doldurulmalı ve tekrar kullanılacağı zaman kullanım seviyesine indirilmelidir.

Çalışma sırasında redüktörün içindeki hava, çalışma şartlarına bağlı olarak genişler ve bu genişleşme sonucunda basınç ve buna bağlı olarak sıcaklık artışı gözlenir. İşte bu artışı önlemek amacıyla "havalandırma tapası" kullanılır. Bu yüzden havalandırma tapalarının çalışır durumda olması redüktör ömrü için çok önemlidir.

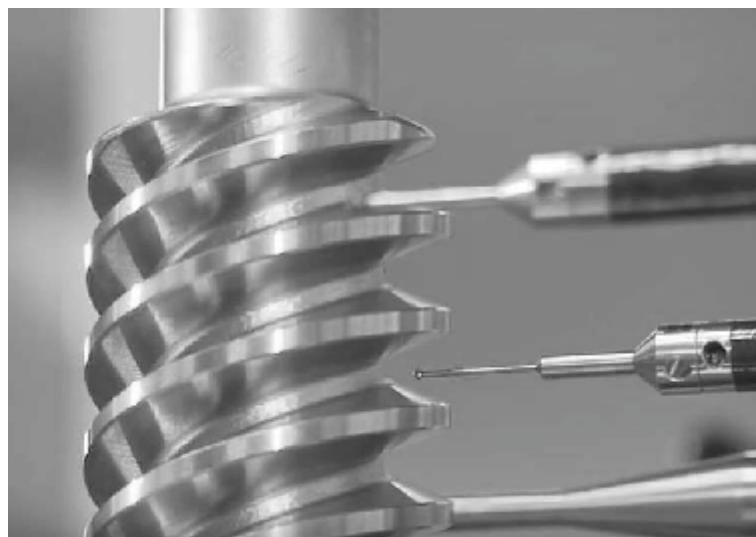
✓ MAINTENANCE:

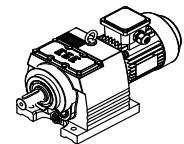
In the case of using mineral lubricant, the lubricant should be changed after 500 - 1000 operating hour period and the inside of the gearbox should be cleaned as well as possible. The level of the lubricant should be checked regularly after a 4000 operating hour period and if it is necessary lubricant should be added.

If the lubricant is synthetic, there isn't any problem by 12.500 operating hour period.

If the gearboxes will kept in the moisture ambient then the reducer should be filled by lubricant and the lubricant level must be decrease when it will be used.

During the operation the air in the gearbox, expands depending on the operating conditions, and this expanding causes the increase of both pressure and temperature. To these events "ventilation plug" is used. Because of this operating of ventilation plug is very important for the gearbox life.





✓ YAĞ TIPLERİ / OIL TYPES :

YAĞLAR

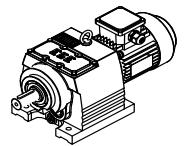
Lubricant

YAĞ CİNSİ LUBRICANT	KULLANIM SICAKLIĞI USAGE TEMPERATURE	ISO VİSKOZİTE SINIFI ISO VISCOSITY CLASS	Petrol Ofisi	ARAL	bp	Esso	KLÖBER LUBRICATION	Mobil	Shell	Castrol
MINERAL YAĞLAR Mineral Oil	0.....+ 100	ISO VG 680	Gravis MF 680	Degol BG 680	Energol GR-XP680	Spartan EP 680	GEM 1 680	Mobilgear Gear 636	Omala 680	Alpha SP 680
	0.....+ 100	ISO VG 460	Gravis MF 460	Degol BG 460	Energol GR-XP460	Spartan EP 460	GEM 1 460	Mobilgear Gear 634	Omala 460	Alpha SP 460
	0.....+ 100	ISO VG 320	Gravis MF 320	Degol BG 320	Energol GR-XP320	Spartan EP 320	GEM 1 320	Mobilgear Gear 632	Omala 320	Alpha SP 320
	-5.....+ 100	ISO VG 220	Gravis MF 220	Degol BG 220	Energol GR-XP220	Spartan EP 220	GEM 1 220	Mobilgear Gear 630	Omala 220	Alpha SP 220
	-5.....+ 100	ISO VG 150		Degol BG 150	Energol GR-XP150	Spartan EP 150	GEM 1 150	Mobilgear Gear 629	Omala 150	Alpha SP 150
	-5.....+ 100	ISO VG 100		Degol BG 100	Energol GR-XP100	Spartan EP 100	GEM 1 100	Mobilgear Gear 627	Omala 100	Alpha SP 100
SENTETİK YAĞLAR Synthetic Oil	-20.....- 140	ISO VG 680		Degol GS 680	Enersyn SG-XP680		Synthoso D 680 EP	Gylgoyle HE 680		
	-20.....- 140	ISO VG 460	SP 460	Degol GS 460	Enersyn SG-XP460	Glycolube EP 460	Synthoso D 460 EP	Gylgoyle HE 460	Tivela SD	Alphasyn PG 460
	-25.....- 140	ISO VG 320		Degol GS 320	Enersyn SG-XP320	Glycolube EP 320	Synthoso D 320 EP	Gylgoyle HE 320		Alphasyn PG 320
	-25.....- 140	ISO VG 220	SP 220	Degol GS 220	Enersyn SG-XP220		Synthoso D 220 EP	Gylgoyle HE 220	Tivela WB	Alphasyn PG 220
	-30.....- 140	ISO VG 150		Degol GS 150	Enersyn SG-XP150		Synthoso D 150 EP			Alphasyn PG 150
	-30.....- 140	ISO VG 100			Enersyn SG-XP100		Synthoso D 100 EP			

GRESLER

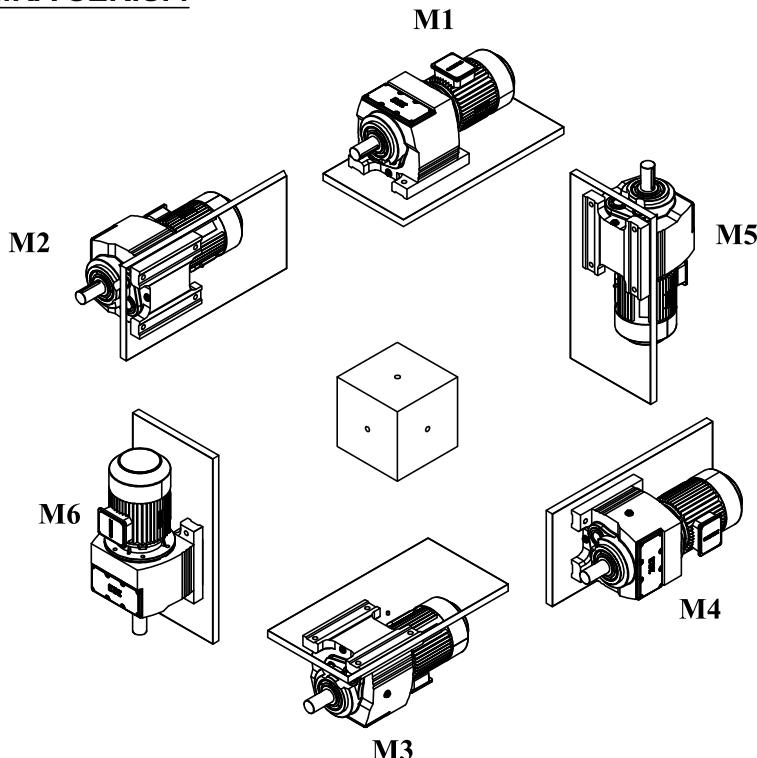
Grease

YAĞ CİNSİ LUBRICANT	KULLANIM SICAKLIĞI USAGE TEMPERATURE	ARAL	bp	Esso	KLÖBER LUBRICATION	Mobil	Shell	Castrol
MINERAL GRESLER Mineral Grease	-20.....+ 120	Degol BG 680	Energol GR-XP680	Spartan EP 680	GEM 1 680	Mobilgear Gear 636	Omala 680	Alpha SP 680
SENTETİK GRESLER Synthetic Grease	-30.....+ 100	Degol BG 460	Energol GR-XP460	Spartan EP 460	GEM 1 460	Mobilgear Gear 634	Omala 460	Alpha SP 460



✓ **MONTAJ POZİSYONLARI / MOUNTING POSITIONS :**

MRA SERİSİ :



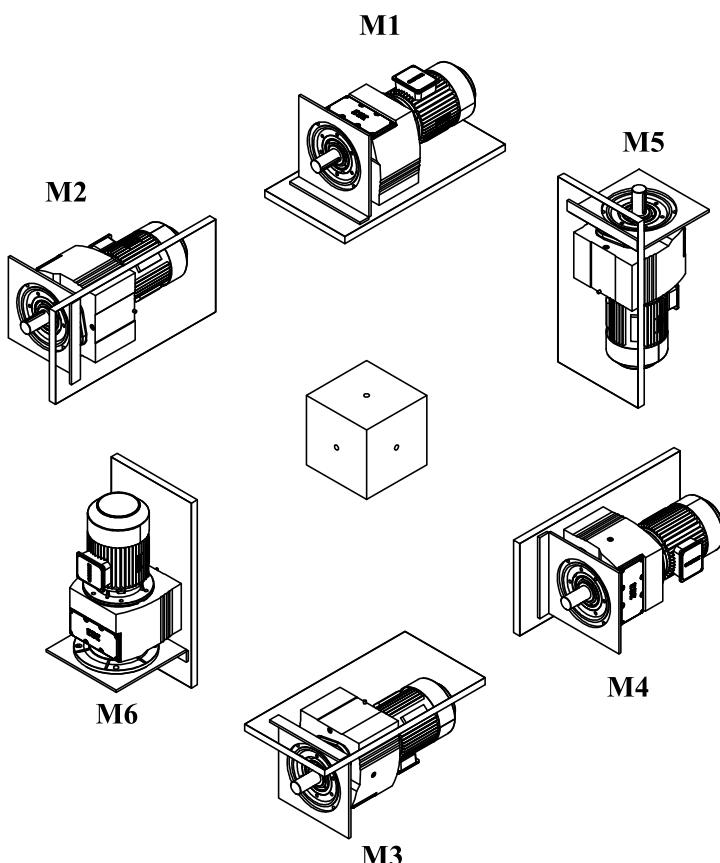
M1....M6 'ya kadar belirtilen montaj pozisyonları redüktörün duruş yönü referans alınarak belirlenmiştir. Montaj yüzeyleri bağlayıcı değildir.

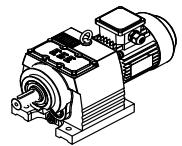
Figured mounting positions of M1 to M6 are determined as reference of directional position of the gearbox. Mounting surfaces are not binding.

MRF SERİSİ :

M1....M6 'ya kadar belirtilen montaj pozisyonları redüktörün duruş yönü referans alınarak belirlenmiştir. Montaj yüzeyleri bağlayıcı değildir.

Figured mounting positions of M1 to M6 are determined as reference of directional position of the gearbox. Mounting surfaces are not binding



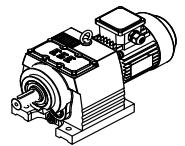


✓ GÖVDE BÜYÜKLÜĞÜNE VE ÇALIŞMA POZİSYONLARINA GÖRE YAĞ MİKTARLARI :

✓ Lubricant Volume According To Working Positions and Reducer Size :

TİP TYPE	Pozisyon / Position M1	Pozisyon / Position M2	Pozisyon / Position M3	Pozisyon / Position M4	Pozisyon / Position M5	Pozisyon / Position M6
MRA 002 / 3 MRF 002 / 3	0.4 / 0.35	0.6 / 0.55	0.5 / 0.5	0.6 / 0.55	0.5 / 0.4	0.5 / 0.4
MRA 102 / 3 MRF 102 / 3	0.65 / 0.6	0.95 / 0.8	0.7 / 0.7	0.95 / 0.8	0.7 / 0.7	0.7 / 0.7
MRA 172 / 3 MRF 172 / 3	0.7 / 0.65	0.95 / 0.9	0.8 / 0.8	0.95 / 0.8	0.8 / 0.7	0.8 / 0.7
MRA 202 / 3 MRF 202 / 3	1.2 / 1.1	2.1 / 2	2 / 1.9	2.1 / 2	1.4 / 1.3	1.4 / 1.3
MRA 272 / 3 MRF 272 / 3	1.1 / 1	2 / 1.7	1.9 / 1.5	2 / 1.7	1.3 / 1.2	1.3 / 1.2
MRA 282 / 3 MRF 282 / 3	1.7 / 1.6	3 / 2.85	2.8 / 2.5	3 / 2.85	2.6 / 2.4	2.6 / 2.4
MRA 372 / 3 MRF 372 / 3	2 / 1.9	3.4 / 3.3	3.1 / 3	3.4 / 3.3	2.8 / 2.6	2.8 / 2.6
MRA 472 / 3 MRF 472 / 3	4.5 / 4	8 / 7.6	7.5 / 7	8 / 7.6	5.5 / 5	5.5 / 5
MRA 572 / 3 MRF 572 / 3	7/6	12.8 / 11.7	11.5 / 10.5	12.8 / 11.7	8 / 7.5	8 / 7.5
MRA 672 / 3 MRF 672 / 3	10 / 8.5	22.5 / 20	20 / 18	22.5 / 20	11 / 11	11 / 11
MRA 772 / 3 MRF 772 / 3	20 / 18	35 / 32	30 / 28	35 / 32	22 / 20	22 / 20
MRA 872 / 3 MRF 872 / 3	28 / 20	53 / 45	45 / 39	53 / 45	30 / 28	30 / 28
MRA 972 / 3 MRF 972 / 3	53 / 50	90 / 87	82 / 80	90 / 87	70 / 65	70 / 65

TİP TYPE	Pozisyon / Position M1	Pozisyon / Position M2	Pozisyon / Position M3	Pozisyon / Position M4	Pozisyon / Position M5	Pozisyon / Position M6
	R/A	R/A	R/A	R/A	R/A	R/A
MRA 284 MRF 284	1.6 / 0.25	2.85 / 0.25	2.5 / 0.25	2.85 / 0.25	2.4 / 0.25	2.4 / 0.25
MRA 374 MRF 374	1.9 / 0.25	3.3 / 0.25	3 / 0.25	3.3 / 0.25	2.6 / 0.25	2.6 / 0.25
MRA 474 MRF 474	4 / 0.4	7.6 / 0.4	7 / 0.4	7.6 / 0.4	5 / 0.4	5 / 0.4
MRA 574 MRF 574	6 / 0.50	11.7 / 0.50	10.5 / 0.50	11.7 / 0.50	7.5 / 0.50	7.5 / 0.50
MRA 674 MRF 674	8.5 / 0.90	20 / 0.90	18 / 0.90	20 / 0.90	11 / 0.90	10.5 / 0.90
MRA 774 MRF 774	18 / 1	32 / 1	28 / 1	32 / 1	20 / 1	20 / 1
MRA 874 MRF 874	20 / 2.15	45 / 2.15	39 / 2.15	45 / 2.15	28 / 2.15	28 / 2.15
MRA 974 MRF 974	50 / 7	87 / 7	80 / 7	87 / 7	65 / 7	65 / 7
MRA 275 MRF 275	1 / 0.4	1.7 / 0.6	1.5 / 0.5	1.7 / 0.6	1.2 / 0.5	1.2 / 0.5
MRA 285 MRF 285	1.6 / 0.7	2.85 / 0.95	2.5 / 0.7	2.85 / 0.95	2.4 / 0.7	2.4 / 0.7
MRA 375 MRF 375	1.9 / 0.7	3.3 / 0.95	3 / 0.7	3.3 / 0.95	2.6 / 0.7	2.6 / 0.7
MRA 475 MRF 475	4 / 1.2	7.6 / 2.1	7.01 / 2.1	7.6 / 2.1	5 / 1.4	5 / 1.4
MRA 575 MRF 575	6 / 1.2	11.7 / 2.1	10.5 / 2	11.7 / 2.1	7.5 / 1.4	7.5 / 1.4
MRA 675 MRF 675	8.5 / 2	20 / 3.4	18 / 3.1	20 / 3.4	11 / 2.8	10.5 / 2.8
MRA 775 MRF 775	18 / 2	32 / 3.4	28 / 3.1	32 / 3.4	20 / 2.8	20 / 2.8
MRA 875 MRF 875	20 / 2	45 / 3.4	39 / 3.1	45 / 3.4	28 / 2.8	28 / 2.8
MRA 975 MRF 975	50 / 4.5	87 / 8	80 / 7.5	87 / 8	65 / 5.5	65 / 5.5
MRA 276 MRF 276	1 / 0.4	1.7 / 0.55	1.5 / 0.5	1.7 / 0.55	1.2 / 0.4	1.2 / 0.4
MRA 286 MRF 286	1.6 / 0.6	2.85 / 0.8	2.5 / 0.7	2.85 / 0.8	2.4 / 0.7	2.4 / 0.7
MRA 376 MRF 376	1.9 / 0.6	3.3 / 0.8	3 / 0.7	3.3 / 0.8	2.6 / 0.7	2.6 / 0.7
MRA 476 MRF 476	4 / 1.1	7.6 / 2	7 / 1.9	7.6 / 2	5 / 1.3	5 / 1.3
MRA 576 MRF 576	6 / 1.1	11.7 / 2	10.5 / 1.9	11.7 / 2	7.5 / 1.3	7.5 / 1.3
MRA 676 MRF 676	8.5 / 1.9	20 / 3.3	18 / 3	20 / 3.3	11 / 2.6	10.5 / 2.6
MRA 776 MRF 776	18 / 1.9	32 / 3.3	28 / 3	32 / 3.3	20 / 2.6	20 / 2.6
MRA 876 MRF 876	20 / 1.9	45 / 3.3	39 / 3	45 / 3.3	28 / 2.6	28 / 2.6
MRA 976 MRF 976	50 / 4	87 / 7.6	80 / 7	87 / 7.6	65 / 5	65 / 5



- ✓ **GÖVDE BÜYÜKLÜĞÜNE VE ÇALIŞMA POZİSYONLARINA GÖRE YAĞ MİKTARLARI :**
- ✓ **Lubricant Volume According To Working Positions and Reducer Size :**

SEMBOLLER :

Yağ Seviye Tespit / Oil Level



Yağ Boşaltma / Oil Drain Plug



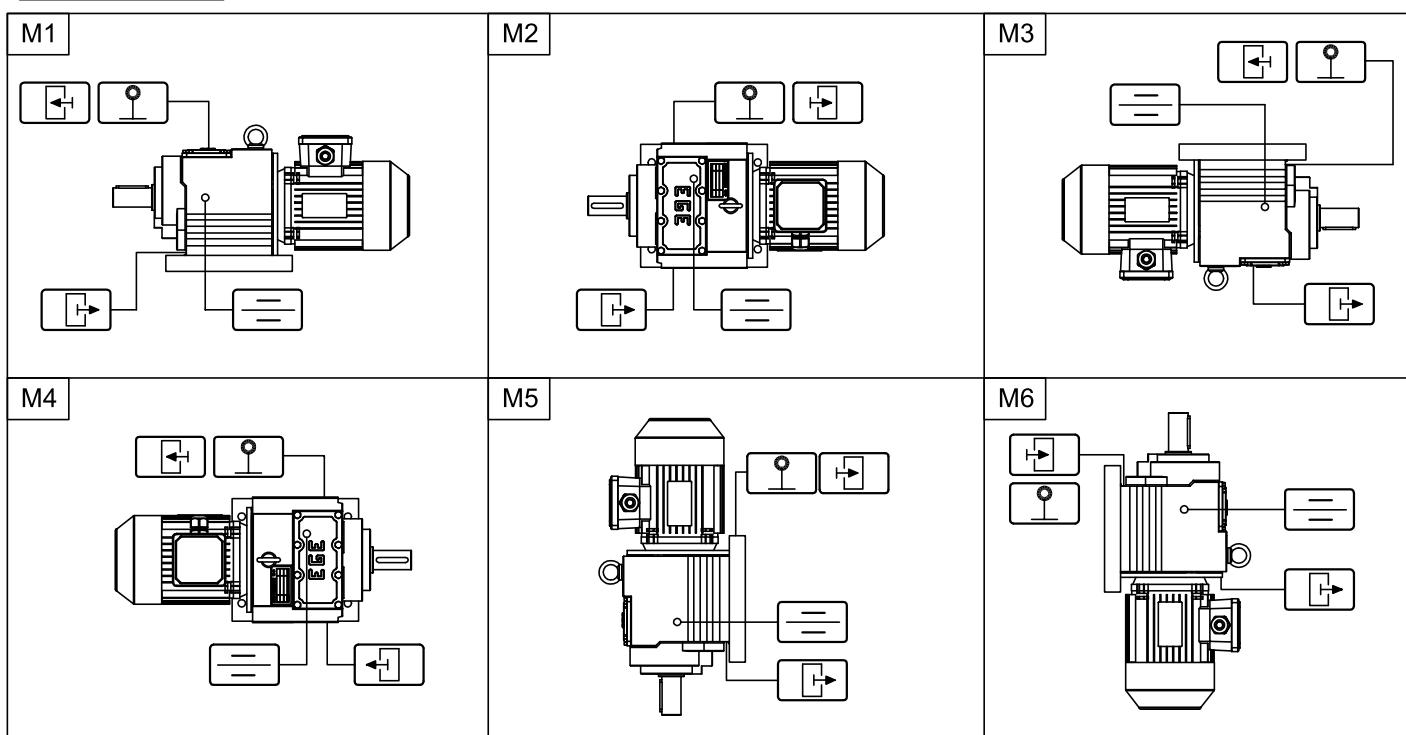
Yağ Doldurma / Oil Filling



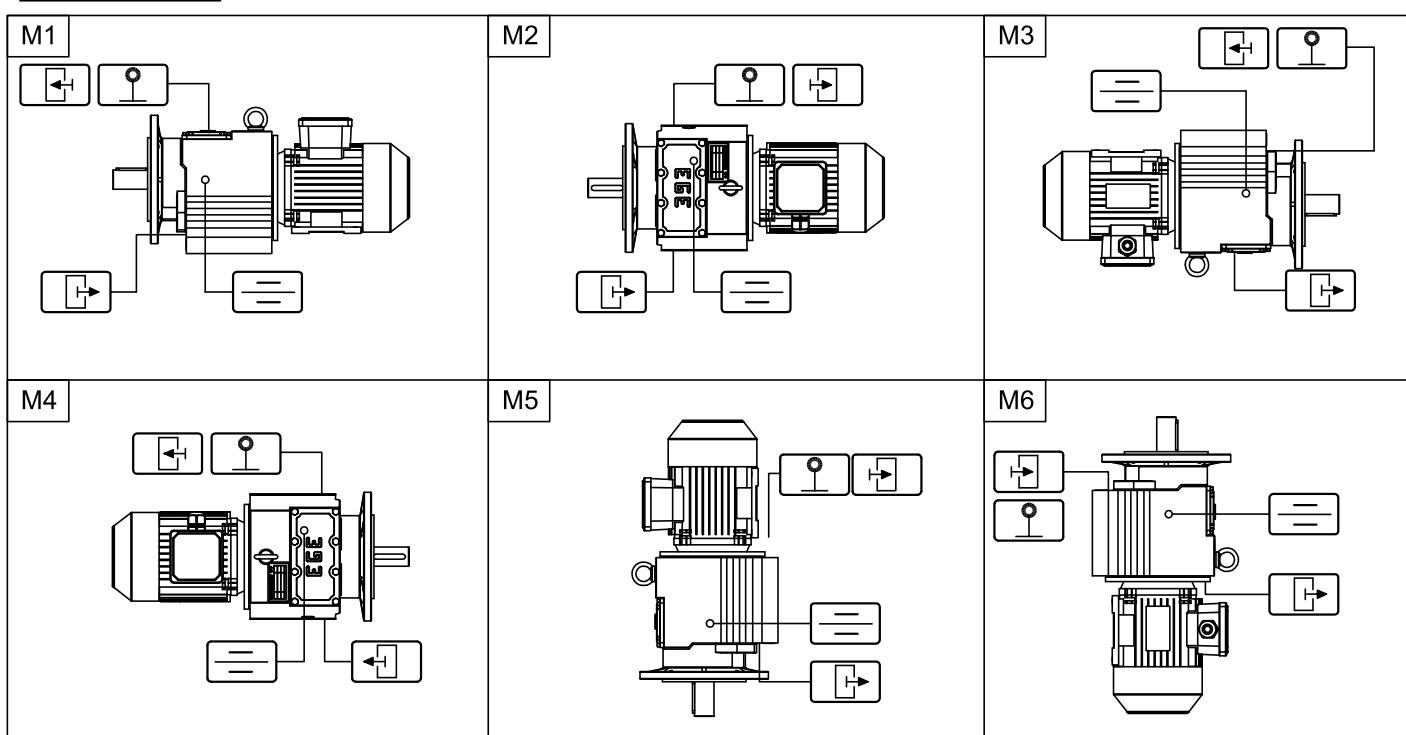
Havalandırma / Vent Plug

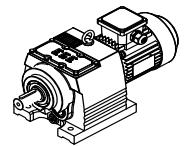


MRA SERİSİ :



MRF SERİSİ :

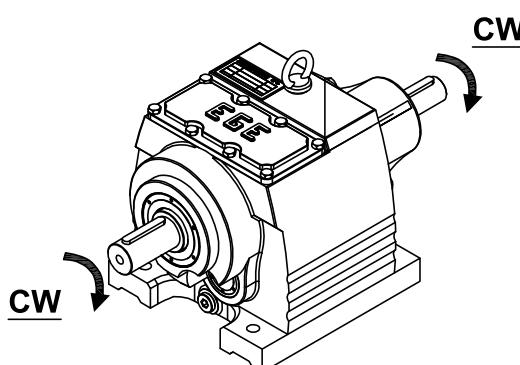
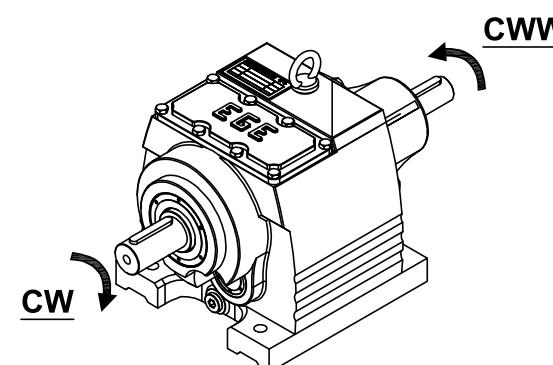


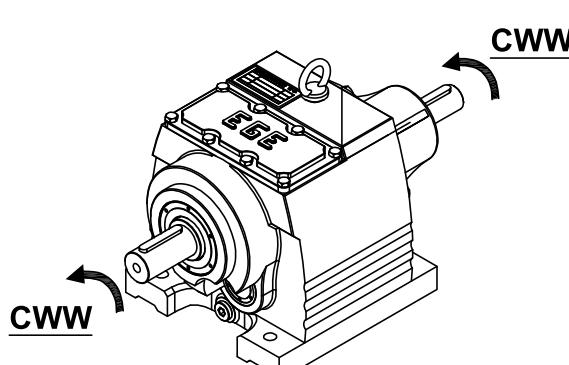
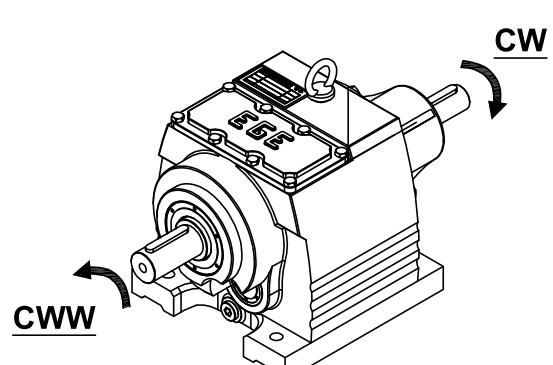


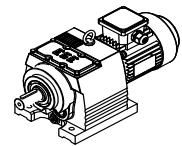
✓ **REDÜKTÖR DÖNÜŞ YÖNLERİ / Direction of Rotation:**

CCW : Saat Yönüne Tersi

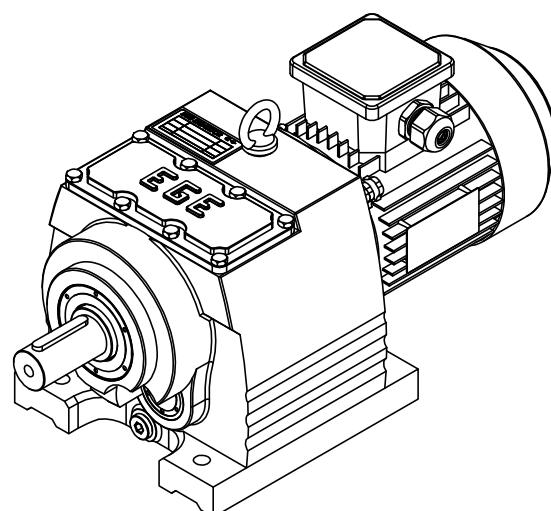
CW : Saat Yönü

2-4-6 Kademe / 2-4-6 Stage	3-5 Kademe / 2-4-6 Stage
	

2-4-6 Kademe / 2-4-6 Stage	3-5 Kademe / 2-4-6 Stage
	



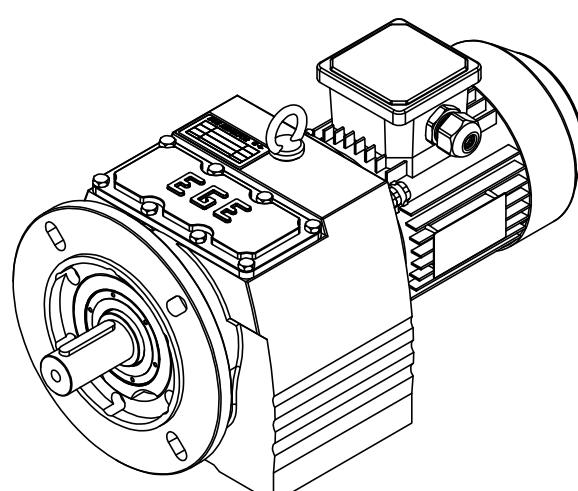
MRA...

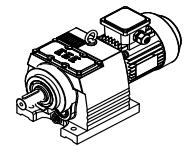


Güç-Devir Tabloları

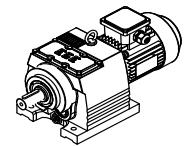
Performance Tables

MRF...

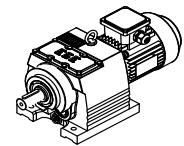




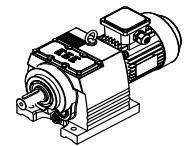
Motor Gücü Motor Power kW / HP	Motor Devri Motor Speeds d/d (rpm)	Çıkış Devri Output Speeds d/d (rpm)	Çıkış Momenti Output Torque Nm	Çevrim Oranı Ratio i	Servis Faktörü Service Factors fs	Redüktör Tipi Type
0,12kW 0,18 HP	1400	0.3	2849	4433.47	1.0	MRA576/63
		0.5	1833	2870.16	1.5	MRF576/63
	1400	0.5	1793	2756.08	1.6	MRA575/63
		0.8	1108	1687.15	2.5	MRF575/63
		1.1	821	1268.42	3.4	
	1400	0.6	1645	2540.50	0.9	MRA475/63
		0.7	1305	2004.69	1.1	MRF475/63
		0.9	1080	1642.49	1.3	
		1.0	908	1396.45	1.6	
		1.2	823	1212.92	1.8	
		1.5	622	941.48	2.3	
	1400	1.0	896	1390.37	0.9	MRA375/63
		1.4	642	994.24	1.2	MRF375/63
		2.1	452	680.75	1.8	
		2.6	350	537.44	2.3	
	1400	2.7	358	527.74	2.2	MRA374/63
		3.8	252	372.52	3.2	MRF374/63
	1400	1.2	822	1215.43	0.7	MRA285/63
		1.6	561	869.15	1.0	MRF285/63
		2.1	444	673.93	1.3	
		2.8	319	494.94	1.8	
	1400	3.2	288	434.20	2.0	MRA284/63
		4.3	218	325.66	2.7	MRF284/63
	1400	1.7	547	833.23	0.7	MRA275/63
		2.3	388	602.89	1.0	MRF275/63
		3.3	273	421.50	1.5	
		4.2	220	334.85	1.8	
		5.5	169	253.97	2.4	
		6.4	143	217.42	2.8	
		7.7	120	181.48	3.3	
		9.3	99	150.07	4.1	
	1400	10.0	105	139.52	3.8	MRA273/63
		11.5	95	121.88	4.2	MRF273/63
		12.2	91	114.32	4.4	
	1400	14.2	74	98.73	2.4	MRA173/63
		17.2	61	81.42	2.9	MRF173/63
		20.3	51	68.83	3.5	
		24.4	43	57.48	4.2	
		28.2	38	49.57	4.8	



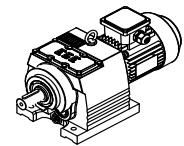
Motor Gücü Motor Power kW / HP	Motor Devri Motor Speeds d/d (rpm)	Çıkış Devri Output Speeds d/d (rpm)	Çıkış Momenti Output Torque Nm	Çevrim Oranı Ratio i	Servis Faktörü Service Factors fs	Redüktör Tipi Type
0,12kW 0,18 HP	1400	31.1	34	44.96	2.2	MRA003/63 MRF003/63
		35.1	30	39.85	2.5	
		43.9	24	31.87	3.1	
		49.6	21	28.25	3.6	
		58.3	18	24.02	4.2	
		68.1	16	20.56	4.7	
		77.3	14	18.12	5.4	
		103.4	10	13.55	7.5	
	1400	126.3	9	11.09	5.9	MRA002/63 MRF002/63
		142.5	8	9.83	6.9	
		161.7	7	8.66	8.3	
		179.4	6	7.81	11.0	
		203.6	5	6.88	14.2	
		234.5	5	5.98	14.5	
		252.6	4	5.55	18.6	
		308.5	3	4.54	24.8	
		360.7	3	3.89	26.1	
		388.6	3	3.61	21.8	
0,18kW 0,25 HP	900	0.1	10807	7152.09	1.1	MRA876/71 MRF876/71
		0.2	8558	5507.36	1.4	
		0.2	6802	4388.94	1.8	
		0.3	5331	3402.53	2.3	
		0.4	3894	2433.13	3.1	
	900	0.2	9150	5883.28	0.8	MRA776/71 MRF776/71
		0.2	8118	5201.16	0.9	
	900	0.2	7767	4758.26	0.9	MRA575/71 MRF575/71
		0.2	6168	3771.72	1.1	
		0.3	4330	2654.08	1.6	
		0.5	2846	1771.87	2.5	
		0.7	2008	1238.59	3.5	
	900	0.3	4412	2831.83	0.9	MRA676/71 MRF676/71
	900	0.4	4124	2550.08	1.0	MRA675/71 MRF675/71
		0.5	3031	1867.41	1.3	
		0.6	2293	1416.72	1.7	
		0.8	1784	1100.63	2.2	
		1.0	1363	864.78	2.9	
	1400	0.5	2945	2912.06	1.0	MRA576/63 MRF576/63



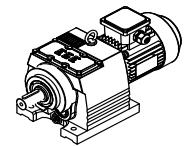
Motor Gücü Motor Power kW / HP	Motor Devri Motor Speeds d/d (rpm)	Çıkış Devri Output Speeds d/d (rpm)	Çıkış Momenti Output Torque Nm	Çevrim Oranı Ratio i	Servis Faktörü Service Factors fs	Redüktör Tipi Type
0,18kW 0,25 HP	1400	0.5	2881	2796.31	1.0	MRA575/63 MRF575/63
		0.9	1574	1488.84	1.8	
		1.2	1183	1140.42	2.4	
	900	1.6	964	574.79	2.9	MRA574/71 MRF574/71
		2.3	651	402.04	4.3	
	1400	0.8	1854	1738.63	0.8	MRA475/63 MRF475/63
		1.0	1458	1386.47	1.0	
		1.1	1322	1204.25	1.1	
	900	1.5	996	603.34	1.5	MRA474/71 MRF474/71
		2.1	716	442.52	2.0	
		3.1	482	295.92	3.0	
	1400	1.6	920	845.80	0.9	MRA375/63 MRF375/63
	900	1.7	849	523.97	0.9	MRA374/71 MRF374/71
		2.5	598	369.86	1.3	
	1400	2.6	576	523.97	1.4	MRA374/63 MRF374/63
		3.7	404	369.86	2.0	
	900	5.8	277	157.73	2.9	MRA373/71 MRF373/71
		6.6	244	138.69	3.3	
	900	2.1	711	431.09	0.8	MRA284/71 MRF284/71
		2.8	533	323.33	1.1	
	1400	3.2	462	431.09	1.3	MRA284/63 MRF284/63
		4.2	350	323.33	1.7	
		5.7	262	240.42	2.2	
	900	8.0	201	114.12	2.9	MRA283/71 MRF283/71
	1400	3.3	438	418.49	0.9	MRA275/63 MRF275/63
		4.1	354	332.45	1.1	
		5.4	271	252.15	1.5	
	900	7.5	212	121.01	1.9	MRA273/71 MRF273/71
		9.5	168	95.36	2.4	
	1400	9.9	160	138.52	2.5	MRA273/63 MRF273/63
		11.3	146	121.01	2.7	
		12.1	140	113.50	2.9	
	900	13.5	116	67.21	2.3	MRA203/71 MRF203/71
		16.5	96	55.07	2.8	
	1400	20.4	80	67.21	3.4	MRA203/63 MRF203/63
	900	10.5	148	86.55	1.2	MRA173/71 MRF173/71
		13.3	120	68.33	1.5	



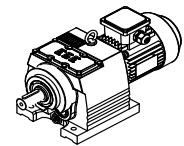
Motor Gücü Motor Power kW / HP	Motor Devri Motor Speeds d/d (rpm)	Çıkış Devri Output Speeds d/d (rpm)	Çıkış Momenti Output Torque Nm	Çevrim Oranı Ratio i	Servis Faktörü Service Factors fs	Redüktör Tipi Type
0,18kW 0,25 HP	1400	14.0	113	98.02	1.6	MRA173/63 MRF173/63
		16.9	93	80.84	1.9	
		20.0	79	68.33	2.3	
		24.0	66	57.07	2.7	
		27.8	57	49.21	3.1	
	900	18.2	89	49.90	1.4	MRA103/71 MRF103/71
		22.1	74	41.16	1.6	
	1400	27.5	59	49.90	2.0	MRA103/63 MRF103/63
		33.3	49	41.16	2.4	
		39.4	41	34.79	3.0	
	900	20.4	78	44.64	1.0	MRA003/71 MRF003/71
		28.8	55	31.64	1.4	
0,25kW 0,34 HP	1400	30.7	52	44.64	1.5	MRA003/63 MRF003/63
		43.3	37	31.64	2.1	
		48.9	32	28.04	2.3	
		57.5	28	23.84	2.7	
		65.2	24	21.00	3.1	
		72.3	22	18.94	3.4	
		76.2	21	17.98	3.5	
		82.1	19	16.69	3.9	
		94.5	17	14.49	4.4	
		101.9	16	13.45	4.6	
	1400	124.5	13	11.01	5.7	MRA002/63 MRF002/63
		140.5	11	9.75	6.7	
		159.4	10	8.60	7.4	
		176.9	9	7.75	8.2	
		186.1	9	7.36	8.3	
		200.7	8	6.83	9.3	
		231.1	7	5.93	10.6	
		248.9	6	5.50	12.4	
		304.1	5	4.51	14.9	
		355.5	5	3.85	14.9	
		383.0	4	3.58	18.6	
		0.2	10287	7231.55	1.2	
0,25kW 0,34 HP	1400	0.3	6543	4437.70	1.8	MRA876/71 MRF876/71
		0.4	5053	3440.33	2.4	
		0.6	3606	2460.16	3.3	
		0.7	3071	2107.91	3.9	
		0.2	8802	5948.64	0.8	
	1400					MRA776/71 MRF776/71



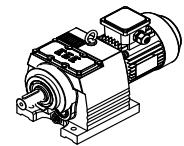
Motor Gücü Motor Power kW / HP	Motor Devri Motor Speeds d/d (rpm)	Çıkış Devri Output Speeds d/d (rpm)	Çıkış Momenti Output Torque Nm	Çevrim Oranı Ratio i	Servis Faktörü Service Factors fs	Redüktör Tipi Type
0,25kW 0,34 HP	1400	0.3	7127	4811.13	1.0	MRA775/71 MRF775/71
		0.4	4616	3103.23	1.5	
		0.6	3448	2323.64	2.0	
		0.8	2669	1791.55	2.6	
		0.9	2372	1589.36	3.0	
		1.0	2122	1417.13	3.3	
	1400	0.4	4887	3341.76	0.8	MRA676/71 MRF676/71
		0.5	4193	2863.29	1.0	
	1400	0.5	3826	2578.41	1.0	MRA675/71 MRF675/71
		1.1	1862	1259.29	2.1	
		1.6	1311	874.39	3.1	
		1.9	1088	730.31	3.7	
	1400	0.7	2829	1896.82	1.0	MRA575/71 MRF575/71
		1.1	1857	1259.36	1.5	
	900	1.6	1367	574.79	2.0	MRA574/71 MRF574/71
		2.3	923	402.04	3.0	
	1400	2.4	870	574.79	3.2	MRA574/71 MRF574/71
		2.8	751	485.79	3.7	
	1400	1.1	1945	1285.53	0.7	MRA475/71 MRF475/71
	900	1.5	1411	603.34	1.0	MRA474/71 MRF474/71
		2.1	1015	442.52	1.4	
	1400	2.0	1047	674.33	1.4	MRA474/71 MRF474/71
		2.6	801	529.82	1.8	
		4.0	528	346.00	2.7	
	900	2.2	964	421.77	0.8	MRA374/71 MRF374/71
	1400	3.3	642	421.77	1.2	MRA374/71 MRF374/71
		4.2	504	326.97	1.6	
		5.0	423	275.02	1.9	
	900	6.6	340	138.69	2.4	MRA373/71 MRF373/71
		8.2	274	111.65	2.9	
	1400	8.7	255	157.73	3.1	MRA373/71 MRF373/71
	900	2.5	842	368.70	0.7	MRA284/71 MRF284/71
	1400	3.2	651	431.09	0.9	MRA284/71 MRF284/71
		4.3	493	323.33	1.2	
		5.7	368	240.42	1.6	



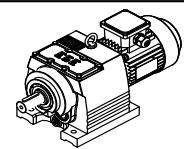
Motor Gücü Motor Power kW / HP	Motor Devri Motor Speeds d/d (rpm)	Çıkış Devri Output Speeds d/d (rpm)	Çıkış Momenti Output Torque Nm	Çevrim Oranı Ratio i	Servis Faktörü Service Factors fs	Redüktör Tipi Type
0,25kW 0,34 HP	900	6.6	336	137.88	1.7	MRA283/71 MRF283/71
		8.0	280	114.12	2.1	
		9.4	236	96.45	2.5	
	1400	10.0	219	137.88	2.7	MRA283/71 MRF283/71
		12.1	181	114.12	3.2	
	1400	3.9	536	358.26	0.7	MRA275/71 MRF275/71
		5.5	382	252.15	1.0	
	900	6.6	339	138.52	1.2	MRA273/71 MRF273/71
		7.5	295	121.01	1.4	
		9.5	233	95.36	1.7	
	1400	10.0	221	138.52	1.8	MRA273/71 MRF273/71
		12.2	194	113.50	2.1	
		14.5	160	95.36	2.5	
		16.7	137	82.82	2.9	
	900	13.5	162	67.21	1.7	MRA203/71 MRF203/71
		15.5	143	58.72	1.9	
	1400	20.5	110	67.21	2.4	MRA203/71 MRF203/71
		25.1	89	55.07	3.0	
		29.5	77	46.82	3.5	
	900	10.5	206	86.55	0.9	MRA173/71 MRF173/71
		15.9	139	86.55	1.3	
	900	20.2	109	68.33	1.7	MRA173/71 MRF173/71
		30.4	74	45.35	2.4	
		38.5	59	35.81	3.1	
		18.2	123	49.90	1.0	MRA103/71 MRF103/71
		22.1	102	41.16	1.2	
	1400	31.3	70	44.06	1.7	MRA103/71 MRF103/71
		39.7	56	34.79	2.1	
		47.5	47	29.05	2.5	
		56.2	40	24.56	3.0	
	900	20.4	109	44.64	0.7	MRA003/71 MRF003/71
		23.0	95	39.56	0.8	
		28.8	77	31.64	1.0	
	1400	30.9	72	44.64	1.0	MRA003/71 MRF003/71
		43.6	51	31.64	1.5	
		49.2	45	28.04	1.7	
		57.9	38	23.84	2.0	
		65.7	34	21.00	2.2	
		72.9	31	18.94	2.4	



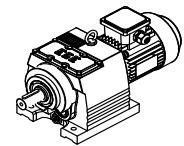
Motor Gücü Motor Power kW / HP	Motor Devri Motor Speeds d/d (rpm)	Çıkış Devri Output Speeds d/d (rpm)	Çıkış Momenti Output Torque Nm	Çevrim Oranı Ratio i	Servis Faktörü Service Factors fs	Redüktör Tipi Type
0,25kW 0,34 HP	1400	82.7	27	16.69	2.8	MRA003/71 MRF003/71
		95.2	23	14.49	3.3	
		102.6	22	13.45	3.4	
	1400	125.4	18	11.01	3.6	MRA002/71 MRF002/71
		141.5	16	9.75	4.0	
		160.5	14	8.60	4.6	
		178.2	13	7.75	5.0	
		202.1	11	6.83	5.9	
		232.8	10	5.93	6.5	
		250.8	9	5.50	7.2	
		306.3	7	4.51	9.3	
		358.1	6	3.85	10.8	
		385.8	6	3.58	10.8	
0,37kW 0,50 HP	1400	0.2	12178	5568.55	1.0	MRA876/71 MRF876/71
		0.3	10800	4953.96	1.1	
		0.4	8587	3891.52	1.4	
		0.4	7655	3440.33	1.6	
		0.6	5463	2460.16	2.2	
		0.7	4652	2107.91	2.6	
	1400	0.7	4373	1923.94	2.7	MRA875/71 MRF875/71
		0.9	3452	1521.25	3.5	
	1400	0.4	8659	3813.63	0.8	MRA775/71 MRF775/71
		0.4	6992	3103.23	1.0	
		0.6	5224	2323.64	1.3	
		0.8	4043	1791.55	1.7	
		1.0	3215	1417.13	2.2	
		1.4	2200	983.98	3.2	
	900	1.5	2076	594.80	3.4	MRA774/80 MRF774/80
	1400	0.7	4255	1888.15	0.9	MRA675/71 MRF675/71
		1.0	3249	1432.45	1.2	
		1.6	1985	874.39	2.0	
	900	2.1	1532	442.11	2.6	MRA674/80 MRF674/80
		2.8	1150	323.76	3.5	
		3.3	991	280.96	4.0	
	1400	1.1	2813	1259.36	1.0	MRA575/71 MRF575/71
		1.4	2255	963.86	1.2	
	900	1.6	2063	574.79	1.4	MRA574/80 MRF574/80
		2.3	1393	402.04	2.0	



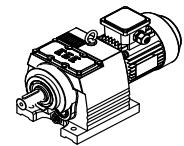
Motor Gücü Motor Power kW / HP	Motor Devri Motor Speeds d/d (rpm)	Çıkış Devri Output Speeds d/d (rpm)	Çıkış Momenti Output Torque Nm	Çevrim Oranı Ratio i	Servis Faktörü Service Factors fs	Redüktör Tipi Type
0,37kW 0,50 HP	1400	2.9	1138	485.79	2.5	MRA574/71 MRF574/71
		4.0	808	343.84	3.5	
		4.8	679	291.19	4.1	
	900	2.6	1234	529.82	1.2	MRA474/80 MRF474/80
		3.1	1014	442.52	1.4	
	1400	2.1	1586	674.33	0.9	MRA474/71 MRF474/71
		2.6	1213	529.82	1.2	
		3.1	1043	442.52	1.4	
		4.0	800	346.00	1.8	
	900	4.2	783	218.96	1.9	MRA473/80 MRF473/80
		5.8	566	157.87	2.6	
		7.4	447	124.83	3.2	
	1400	3.3	972	421.77	0.8	MRA374/71 MRA374/71
		4.3	764	326.97	1.0	
		5.1	641	275.02	1.2	
	900	5.8	564	157.73	1.4	MRA373/80 MRF373/80
		8.2	402	111.65	2.0	
	1400	10.0	326	138.69	2.5	MRA373/71 MRF373/71
		14.4	225	96.74	3.6	
	1400	4.9	665	285.83	0.9	MRA284/71 MRF284/71
		6.7	491	137.88	1.2	
	900	9.5	345	96.45	1.7	MRA283/80 MRF283/80
		10.1	322	137.88	1.8	
	1400	14.4	224	96.45	2.6	MRA283/71 MRF283/71
		16.4	197	84.57	2.9	
		6.6	496	138.52	0.8	MRA273/80 MRF273/80
	900	9.6	341	95.36	1.2	
		10.0	326	138.52	1.2	MRA273/71 MRF273/71
		14.6	235	95.36	1.7	
		19.2	172	72.47	2.3	
		23.2	143	59.93	2.8	
	900	15.7	209	58.72	1.3	MRA203/80 MRF203/80
		20.7	163	67.21	1.7	
	1400	25.2	131	55.07	2.1	MRA203/71 MRF203/71
		29.7	113	46.82	2.4	
		34.2	97	40.67	2.8	
		39.1	86	35.59	3.1	



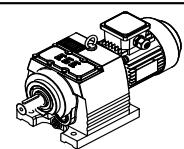
Motor Gücü Motor Power kW / HP	Motor Devri Motor Speeds d/d (rpm)	Çıkış Devri Output Speeds d/d (rpm)	Çıkış Momenti Output Torque Nm	Çevrim Oranı Ratio i	Servis Faktörü Service Factors fs	Redüktör Tipi Type
0,37kW 0,50 HP	1400	14.2	231	98.02	0.8	MRA173/71 MRF173/71
		20.3	160	68.33	1.1	
		24.4	135	57.07	1.3	
		28.2	117	49.21	1.5	
		30.7	110	45.35	1.6	
		38.8	86	35.81	2.1	
		46.5	71	29.90	2.5	
		53.9	62	25.79	2.9	
	900	20.9	157	44.06	0.8	MRA103/80 MRF103/80
	1400	27.9	121	49.90	1.0	MRA103/71 MRF103/71
		31.5	104	44.06	1.2	
		40.0	84	34.79	1.4	
		47.9	70	29.05	1.7	
		64.1	52	21.70	2.3	
		81.2	41	17.12	2.9	
	1400	88.2	38	15.76	3.0	MRA102/71 MRF102/71
		99.9	34	13.91	3.3	
		107.0	31	12.99	3.8	
	1400	31.1	106	44.64	0.7	MRA003/71 MRF003/71
		43.9	76	31.64	1.0	
		49.6	66	28.04	1.1	
		58.3	57	23.84	1.3	
		68.1	49	20.41	1.5	
		77.3	43	17.98	1.8	
		95.9	35	14.49	2.2	
		103.4	32	13.45	2.4	
	1400	126.3	27	11.01	2.8	MRA002/71 MRF002/71
		142.5	24	9.75	3.1	
		161.7	21	8.60	3.6	
		179.4	19	7.75	4.0	
		188.8	18	7.36	4.2	
		203.6	17	6.83	4.4	
		234.5	15	5.93	5.0	
		252.6	13	5.50	5.8	
		308.5	11	4.51	6.9	
		360.7	9	3.85	8.4	
		388.6	9	3.58	8.4	



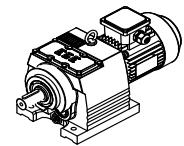
Motor Gücü Motor Power kW / HP	Motor Devri Motor Speeds d/d (rpm)	Çıkış Devri Output Speeds d/d (rpm)	Çıkış Momenti Output Torque Nm	Çevrim Oranı Ratio i	Servis Faktörü Service Factors fs	Redüktör Tipi Type
0,55kW 0,70HP	1400	0.3	17865	5356.36	1.0	MRA976/80 MRF976/80
		0.3	14892	4473.78	1.1	
		0.4	12116	3594.09	1.4	
		0.5	9510	2836.07	1.8	
	1400	0.7	6981	2027.56	2.4	MRA975/80 MRF975/80
		0.9	5334	1551.79	3.2	
	1400	0.4	12999	3891.52	0.9	MRA876/80 MRF876/80
		0.5	9617	2893.70	1.2	
		0.6	8270	2460.16	1.5	
		0.6	7042	2107.91	1.7	
	1400	0.7	6620	1923.94	1.8	MRA875/80 MRF875/80
		1.0	4387	1335.88	2.7	
		1.3	3514	1048.97	3.4	
	1400	0.7	6961	2032.25	1.0	MRA775/80 MRF775/80
		0.9	5438	1589.36	1.3	
		1.1	4230	1252.35	1.7	
		1.4	3330	983.98	2.1	
	900	1.5	3155	594.80	2.2	MRA774/80 MRF774/80
		2.2	2293	418.09	3.1	
	1400	2.6	1856	532.18	3.8	MRA774/80 MRF774/80
	1400	1.1	4268	1259.29	0.9	MRA675/80 MRF675/80
		1.6	3005	874.39	1.3	
	900	2.0	2327	442.11	1.7	MRA674/80 MRF674/80
	1400	3.1	1579	442.11	2.5	MRA674/80 MRF674/80
		3.6	1323	376.61	3.0	
		4.9	997	280.96	4.0	
	900	1.6	3135	574.79	0.9	MRA574/80 MRF574/80
		2.2	2117	402.04	1.3	
	1400	2.4	1993	574.79	1.4	MRA574/80 MRF574/80
		3.4	1428	402.04	2.0	
		4.5	1058	301.53	2.6	
		5.3	914	258.82	3.1	
		6.2	782	221.36	3.6	
		7.0	688	194.11	4.1	



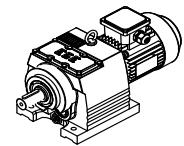
Motor Gücü Motor Power kW / HP	Motor Devri Motor Speeds d/d (rpm)	Çıkış Devri Output Speeds d/d (rpm)	Çıkış Momenti Output Torque Nm	Çevrim Oranı Ratio i	Servis Faktörü Service Factors fs	Redüktör Tipi Type
0,55kW 0,70HP	1400	2.6	1837	529.82	0.8	MRA474/80 MRF474/80
		3.1	1579	442.52	0.9	
	900	3.9	1210	346.00	1.2	MRA473/80 MRF473/80
		4.1	1192	218.96	1.2	
		4.6	1049	194.01	1.4	
	1400	5.7	863	157.87	1.7	MRA473/80 MRF473/80
		6.2	789	218.96	1.8	
		7.0	697	194.01	2.1	
		8.6	572	157.87	2.5	
	1400	10.9	443	124.83	3.3	MRA374/80 MRF374/80
		5.0	971	275.02	0.8	
	900	6.5	757	138.69	1.1	MRA373/80 MRF373/80
		8.1	612	111.65	1.3	
	1400	8.7	569	157.73	1.4	MRA373/80 MRF373/80
		9.8	495	138.69	1.6	
		12.2	417	111.65	1.9	
		16.0	306	85.53	2.6	
		19.0	257	71.94	3.1	
		22.3	225	61.17	3.6	
	900	6.5	748	137.88	0.8	MRA283/80 MRF283/80
		9.3	525	96.45	1.1	
	1400	9.9	489	137.88	1.2	MRA283/80 MRF283/80
		16.1	298	84.57	1.9	
		21.7	228	62.89	2.5	
		25.5	195	53.47	3.0	
	900	9.4	519	95.36	0.8	MRA273/80 MRF273/80
	1400	11.3	452	121.01	0.9	MRA273/80 MRF273/80
		16.5	304	82.82	1.3	
		22.8	216	59.93	1.9	
		32.6	152	41.90	2.6	
		37.8	130	36.11	3.1	
	900	15.3	318	58.72	0.8	MRA203/80 MRF203/80
	1400	20.3	247	67.21	1.1	MRA203/80 MRF203/80
		29.2	172	46.82	1.6	
		38.4	129	35.59	2.1	
		48.7	101	28.01	2.7	
		59.5	83	22.95	3.3	



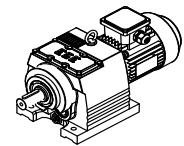
Motor Gücü Motor Power kW / HP	Motor Devri Motor Speeds d/d (rpm)	Çıkış Devri Output Speeds d/d (rpm)	Çıkış Momenti Output Torque Nm	Çevrim Oranı Ratio i	Servis Faktörü Service Factors fs	Redüktör Tipi Type
0,55kW 0,70HP	1400	23.9	204	57.07	0.9	MRA173/80 MRF173/80
		30.1	167	45.35	1.1	
		38.1	131	35.81	1.4	
		45.7	108	29.90	1.7	
		52.9	94	25.79	1.9	
	1400	66.0	76	20.67	2.4	MRA172/80 MRF172/80
		75.6	67	18.06	2.7	
	1400	31.0	157	44.06	0.8	MRA103/80 MRF103/80
		39.2	126	34.79	0.9	
		47.0	106	29.05	1.1	
		55.6	89	24.56	1.4	
		67.4	73	20.26	1.7	
		79.7	62	17.12	1.9	
	1400	86.6	58	15.76	2.1	MRA102/80 MRF102/80
		98.1	51	13.91	2.3	
		105.1	47	12.99	2.5	
		124.2	41	10.99	3.0	
		135.7	37	10.06	3.2	
		148.7	34	9.18	3.6	
		172.5	29	7.91	4.1	
		199.4	25	6.85	4.7	
	1400	43.1	114	31.64	0.7	MRA003/80 MRF003/80
		57.3	86	23.84	0.9	
		66.9	74	20.41	1.0	
		75.9	65	17.98	1.2	
		81.8	61	16.69	1.2	
		94.2	52	14.49	1.4	
		101.5	49	13.45	1.5	
	1400	124.0	41	11.01	1.8	MRA002/80 MRF002/80
		140.0	36	9.75	2.1	
		158.8	31	8.60	2.4	
		176.2	28	7.75	2.6	
		185.4	27	7.36	2.7	
	1400	199.9	25	6.83	3.0	MRA002/80 MRF002/80
		230.3	22	5.93	3.4	
		248.0	20	5.50	3.7	
		303.0	16	4.51	4.6	
		354.3	14	3.85	5.3	
		381.7	13	3.58	5.7	



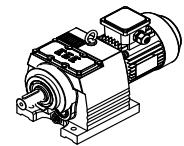
Motor Gücü Motor Power kW / HP	Motor Devri Motor Speeds d/d (rpm)	Çıkış Devri Output Speeds d/d (rpm)	Çıkış Momenti Output Torque Nm	Çevrim Oranı Ratio i	Servis Faktörü Service Factors fs	Redüktör Tipi Type
0,75kW 1,0HP	1400	0.3	20233	4473.78	0.8	MRA976/80 MRF976/80
		0.4	16461	3594.09	1.0	
	1400	0.5	12920	2836.07	1.3	
		0.7	9485	2027.56	1.8	MRA975/80 MRF975/80
	1400	1.0	6263	1368.00	2.7	
	1400	0.6	11236	2460.16	1.1	MRA876/80 MRF876/80
		0.6	9568	2107.91	1.3	
	1400	0.7	8995	1923.94	1.3	MRA875/80 MRF875/80
		0.9	7100	1521.25	1.7	
		1.0	5961	1335.88	2.0	
		1.5	4202	915.67	2.9	
	1400	1.1	5747	1252.35	1.2	MRA775/80 MRF775/80
		1.4	4525	983.98	1.5	
	900	1.5	4256	594.80	1.6	MRA774/90S MRF774/90S
		1.9	3334	467.34	2.1	
	1400	2.6	2522	532.18	2.8	MRA774/80 MRF774/80
		3.3	1981	418.09	3.5	
	1400	1.6	4083	874.39	1.0	MRA675/80 MRF675/80
	900	2.4	2730	376.61	1.5	MRA674/90S MRF674/90S
		2.1	3229	442.11	1.2	
		2.4	2706	376.61	1.5	
		3.2	2041	280.96	2.0	
		4.2	1570	215.93	2.5	
	900	2.3	2855	402.04	1.0	MRA574/90S MRF574/90S
	1400	2.4	2708	574.79	1.0	MRA574/80 MRF574/80
		2.8	2340	485.79	1.2	
		4.0	1663	343.84	1.7	
		4.5	1438	301.53	1.9	
		5.3	1243	258.82	2.3	
		6.2	1062	221.36	2.6	
		7.1	934	194.11	3.0	
		8.0	833	171.61	3.4	
		9.5	699	144.34	4.0	
	1400	3.3	1976	418.08	0.7	MRA474/80 MRF474/80
		4.0	1644	346.00	0.9	
	900	4.2	1606	218.96	0.9	MRA473/90S MRF473/90S
		5.8	1163	157.87	1.2	



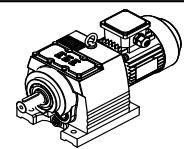
Motor Gücü Motor Power kW / HP	Motor Devri Motor Speeds d/d (rpm)	Çıkış Devri Output Speeds d/d (rpm)	Çıkış Momenti Output Torque Nm	Çevrim Oranı Ratio i	Servis Faktörü Service Factors fs	Redüktör Tipi Type
0,75kW 1,0HP	1400	7.1	948	194.01	1.5	MRA473/80 MRF473/80
		8.7	778	157.87	1.9	
		11.0	601	124.83	2.4	
		15.1	438	90.48	3.3	
	900	6.6	1020	138.69	0.8	MRA373/90S MRF373/90S
		8.2	825	111.65	1.0	
	1400	8.7	774	157.73	1.0	MRA373/80 MRF373/80
		9.9	673	138.69	1.2	
		16.0	416	85.53	1.9	
		22.4	306	61.17	2.6	
		28.9	233	47.42	3.4	
	900	9.4	708	96.45	0.8	MRA283/90S MRF283/90S
	1400	12.0	548	114.12	1.1	MRA283/80 MRF283/80
		21.8	310	62.89	1.9	
		25.6	265	53.47	2.2	
		33.0	203	41.46	2.9	
	1400	12.1	587	113.50	0.7	MRA273/80 MRF273/80
		18.9	355	72.47	1.1	
		27.4	249	49.98	1.6	
		37.9	177	36.11	2.3	
		45.5	150	30.11	2.7	
	1400	20.4	337	67.21	0.8	MRA203/80 MRF203/80
		24.9	269	55.07	1.0	
		31.6	215	43.41	1.3	
		38.5	176	35.59	1.5	
		48.9	136	28.01	2.0	
		56.0	121	24.47	2.2	
		59.7	113	22.95	2.4	
	1400	60.3	113	22.73	2.4	MRA202/80 MRF202/80
		69.0	99	19.86	2.6	
		73.6	93	18.62	2.7	
		86.5	78	15.84	3.1	
	1400	30.2	227	45.35	0.8	MRA203/80 MRF203/80
		38.3	177	35.81	1.0	
		45.8	147	29.90	1.2	
		53.1	128	25.79	1.4	
	1400	66.3	103	20.67	1.7	MRA172/80 MRF172/80
		75.9	91	18.06	2.0	
		80.9	85	16.93	2.1	



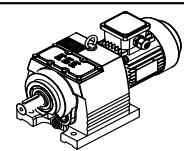
Motor Gücü Motor Power kW / HP	Motor Devri Motor Speeds d/d (rpm)	Çıkış Devri Output Speeds d/d (rpm)	Çıkış Momenti Output Torque Nm	Çevrim Oranı Ratio i	Servis Faktörü Service Factors fs	Redüktör Tipi Type
0,75kW 1,0HP	1400	95.2	72	14.40	2.5	MRA172/80 MRF172/80
		109.5	63	12.51	2.9	
		125.1	54	10.95	3.3	
	1400	39.4	173	34.79	0.7	MRA103/80 MRF103/80
		47.2	145	29.05	0.8	
		55.8	120	24.56	1.0	
		63.1	107	21.70	1.1	
		67.6	100	20.26	1.2	
		80.0	85	17.12	1.3	
	1400	86.9	79	15.76	1.5	MRA102/80 MRF102/80
		98.5	69	13.91	1.6	
		105.4	64	12.99	1.7	
		124.7	56	10.99	1.8	
		136.2	50	10.06	2.0	
		149.3	47	9.18	2.1	
		173.1	39	7.91	2.3	
		200.1	34	6.85	2.5	
		214.0	32	6.40	2.5	
		253.5	27	5.40	2.9	
		276.8	25	4.95	3.2	
		303.4	22	4.52	3.3	
	1400	57.5	117	23.84	0.6	MRA003/80 MRF003/80
		65.2	103	21.00	0.7	
		72.3	93	18.94	0.8	
		82.1	82	16.69	0.9	
		94.5	71	14.49	1.1	
		101.9	67	13.45	1.1	
	1400	124.5	55	11.01	1.2	MRA002/80 MRF002/80
		140.5	49	9.75	1.6	
		159.4	43	8.60	1.7	
		176.9	38	7.75	1.9	
		186.1	36	7.36	2.0	
		200.7	34	6.83	2.1	
		231.1	29	5.93	2.2	
		248.9	27	5.50	2.4	
		304.1	22	4.51	2.7	
		355.5	19	3.85	2.9	
		383.0	18	3.58	3.0	
		0.5	18678	2836.07	0.9	MRA976/90S MRF976/90S



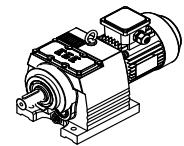
Motor Gücü Motor Power kW / HP	Motor Devri Motor Speeds d/d (rpm)	Çıkış Devri Output Speeds d/d (rpm)	Çıkış Momenti Output Torque Nm	Çevrim Oranı Ratio i	Servis Faktörü Service Factors fs	Redüktör Tipi Type
1,1kW 1,5HP	1400	0.7	13710	2027.56	1.2	MRA975/90S MRF975/90S
		1.0	9053	1368.00	1.9	
		1.5	6092	914.56	2.8	
		0.8	11424	1700.22	1.1	
	1400	1.0	8617	1335.88	1.4	MRA875/90S MRF875/90S
		1.5	6073	915.67	2.0	
		2.2	4414	643.71	2.7	
		2.6	3648	537.64	3.3	
	1400	1.1	8307	1252.35	0.8	MRA775/90S MRF775/90S
		1.4	6542	983.98	1.1	
	900	1.5	6207	594.80	1.1	MRA774/90L MRF774/90L
		2.2	4511	418.09	1.6	
	1400	2.6	3646	532.18	1.9	MRA774/90S MRF774/90S
		3.3	2864	418.09	2.4	
		3.8	2528	361.55	2.8	
		4.4	2190	313.05	3.2	
		5.1	1902	273.80	3.7	
	900	2.1	4579	442.11	0.9	MRA674/90L MRF674/90L
		2.4	3982	376.61	1.0	
	1400	2.8	3468	500.29	1.2	MRA674/90S MRF674/90S
		3.7	2597	376.61	1.5	
		4.9	1960	280.96	2.0	
		5.7	1709	245.62	2.3	
		6.4	1508	215.93	2.7	
	1400	3.5	2803	402.04	1.0	MRA574/90S MRF574/90S
		4.0	2404	343.84	1.2	
		4.6	2078	301.53	1.3	
		5.4	1797	258.82	1.6	
		6.3	1534	221.36	1.8	
		7.2	1351	194.11	2.1	
		8.1	1205	171.61	2.3	
		9.6	1010	144.34	2.8	
	900	5.8	1698	157.87	0.9	MRA473/90L MRF473/90L
	1400	7.2	1372	194.01	1.1	MRA473/90S MRF473/90S
		8.8	1125	157.87	1.3	
		10.0	989	139.51	1.5	
		11.1	870	124.83	1.7	
	1400	15.4	633	90.48	2.3	MRA473/90S MRF473/90S



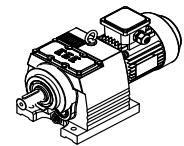
Motor Gücü Motor Power kW / HP	Motor Devri Motor Speeds d/d (rpm)	Çıkış Devri Output Speeds d/d (rpm)	Çıkış Momenti Output Torque Nm	Çevrim Oranı Ratio i	Servis Faktörü Service Factors fs	Redüktör Tipi Type
1,1kW 1,5HP	1400	10.0	974	138.69	0.8	MRA373/90S MRF373/90S
		16.3	602	85.53	1.3	
		22.7	443	61.17	1.8	
		29.3	336	47.42	2.4	
	900	39.7	255	23.05	3.1	MRA372/90L MRF372/90L
		44.9	225	20.37	3.6	
	1400	16.4	588	84.57	1.0	MRA283/90S MRF283/90S
		22.1	448	62.89	1.3	
		30.3	325	45.81	1.7	
		33.5	293	41.46	1.8	
	900	36.7	276	24.93	2.1	MRA282/90L MRF282/90L
		42.8	237	21.40	2.4	
	1400	46.3	216	30.01	2.6	MRA282/90S MRF282/90S
		55.8	179	24.93	2.9	
		65.0	156	21.40	3.2	
	1400	19.2	513	72.47	0.8	MRA273/90S MRF273/90S
		27.8	360	49.98	1.1	
		38.5	256	36.11	1.6	
		46.2	215	30.11	1.9	
	1400	54.3	185	25.58	2.2	MRA272/90S MRF272/90S
		65.7	152	21.17	2.6	
		76.8	131	18.11	3.1	
	1400	29.7	339	46.82	0.8	MRA173/90S MRF173/90S
		39.1	255	35.59	1.1	
		49.6	197	28.01	1.4	
		56.8	176	24.47	1.5	
		60.6	162	22.95	1.6	
	1400	61.1	165	22.73	1.7	MRA172/90S MRF172/90S
		70.0	144	19.86	1.8	
		74.6	134	18.62	1.9	
		87.8	114	15.84	2.1	
		94.7	106	14.68	2.3	
		101.1	100	13.75	2.4	
		115.5	88	12.03	2.6	
		130.1	78	10.68	2.8	
		139.7	73	9.95	2.9	
		167.5	61	8.30	3.3	
	1400	38.8	257	35.81	0.8	MRA173/90S MRF173/90S
		46.5	212	29.90	0.9	
		53.9	185	25.79	1.1	



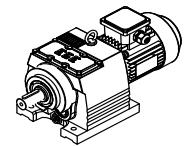
Motor Gücü Motor Power kW / HP	Motor Devri Motor Speeds d/d (rpm)	Çıkış Devri Output Speeds d/d (rpm)	Çıkış Momenti Output Torque Nm	Çevrim Oranı Ratio i	Servis Faktörü Service Factors fs	Redüktör Tipi Type
1,1kW 1,5HP	1400	67.3	149	20.67	1.3	MRA172/90S MRF172/90S
		82.1	123	16.93	1.6	
		96.6	104	14.40	1.9	
		111.1	91	12.51	2.1	
		127.0	79	10.95	2.3	
		147.6	69	9.42	2.5	
		157.4	65	8.83	2.6	
		185.1	55	7.51	2.9	
		213.2	48	6.52	3.0	
		243.4	42	5.71	3.2	
	1400	56.6	174	24.56	0.8	MRA103/90S MRF103/90S
		68.6	144	20.26	1.0	
		81.2	123	17.12	1.1	
	1400	88.2	115	15.76	1.0	MRA102/90S MRF102/90S
		99.9	100	13.91	1.1	
		126.5	80	10.99	1.2	
		138.2	72	10.06	1.3	
		151.4	67	9.18	1.4	
		175.6	58	7.91	1.6	
		203.0	50	6.85	1.7	
		257.2	39	5.40	2.0	
		280.8	36	4.95	2.2	
		307.9	33	4.52	2.3	
	1400	357.1	28	3.89	2.5	MRA003/90S MRF003/90S
		95.9	103	14.49	0.8	
		103.4	96	13.45	0.8	
	1400	126.3	80	11.01	0.8	MRA002/90S MRF002/90S
		142.5	71	9.75	1.1	
		166.5	61	8.35	1.2	
		179.4	56	7.75	1.3	
		188.8	54	7.36	1.4	
		203.6	50	6.83	1.5	
		234.5	43	5.93	1.6	
		252.6	40	5.50	1.7	
		308.5	33	4.51	1.8	
		360.7	28	3.85	2.0	
		388.6	26	3.58	2.1	
1,5kW 2,0HP	1400	0.8	16830	1820.42	1.0	MRA975/90L MRF975/90L
		0.9	14285	1551.79	1.2	
		1.0	12345	1368.00	1.4	



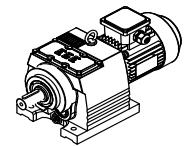
Motor Gücü Motor Power kW / HP	Motor Devri Motor Speeds d/d (rpm)	Çıkış Devri Output Speeds d/d (rpm)	Çıkış Momenti Output Torque Nm	Çevrim Oranı Ratio i	Servis Faktörü Service Factors fs	Redüktör Tipi Type
1,5kW 2,0HP	1400	1.5	8308	914.56	2.0	MRA975/90L MRF975/90L
		2.1	6122	662.41	2.8	
	1400	1.0	11750	1335.88	1.0	MRA875/90L MRF875/90L
		1.5	8282	915.67	1.4	
	900	2.1	6293	446.33	1.9	MRA874/100L MRF874/100L
		2.7	4922	345.60	2.4	
		3.9	3467	239.56	3.5	
	900	1.6	8373	594.80	0.8	MRA774/100L MRF774/100L
		2.0	6560	467.34	1.1	
	1400	2.6	4972	532.18	1.4	MRA774/100L MRF774/100L
		3.3	3906	418.09	1.8	
		4.4	2987	313.05	2.3	
		5.8	2294	241.37	3.1	
		6.5	2026	214.13	3.5	
	1400	3.1	4228	442.11	0.9	MRA674/90L MRF674/90L
		3.7	3543	376.61	1.1	
		4.3	3047	323.76	1.3	
		4.9	2672	280.96	1.5	
		5.7	2331	245.62	1.7	
		6.4	2056	215.93	1.9	
	1400	4.0	3278	343.84	0.9	MRA574/90L MRF574/90L
		4.6	2833	301.53	1.0	
	900	5.5	2435	167.29	1.2	MRA573/100L MRF573/100L
		6.0	2241	153.58	1.2	
		7.8	1735	118.93	1.6	
		9.2	1470	100.51	1.9	
		12.9	1017	71.94	2.8	
		17.1	769	54.08	3.6	
		19.2	687	48.16	4.1	
	1400	7.2	1873	194.01	0.8	MRA473/90L MRF473/90L
		10.0	1349	139.51	1.1	
		12.7	1085	109.62	1.3	
		15.4	864	90.48	1.7	
	1400	14.4	918	96.74	0.9	MRA373/90L MRF373/90L
		19.3	690	71.94	1.2	
		26.5	503	52.40	1.6	
		29.3	459	47.42	1.7	
	900	40.1	345	23.05	2.3	MRA372/100L MRF372/100L
		45.4	304	20.37	2.6	
		50.7	271	18.23	2.9	



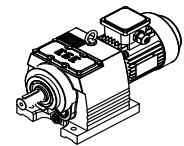
Motor Gücü Motor Power kW / HP	Motor Devri Motor Speeds d/d (rpm)	Çıkış Devri Output Speeds d/d (rpm)	Çıkış Momenti Output Torque Nm	Çevrim Oranı Ratio i	Servis Faktörü Service Factors fs	Redüktör Tipi Type
1,5kW 2,0HP	1400	60.3	228	23.05	3.5	MRA372/90L MRF372/90L
		68.2	202	20.37	4.0	
		76.3	180	18.23	4.4	
	1400	18.6	706	74.77	0.8	MRA283/90L MRF283/90L
		26.0	523	53.47	1.1	
		30.3	444	45.81	1.3	
	900	37.1	373	24.93	1.6	MRA282/100L MRF282/100L
		43.2	320	21.40	1.8	
	1400	46.3	295	30.01	1.9	MRA282/90L MRF282/90L
		55.8	244	24.93	2.1	
		65.0	212	21.40	2.5	
		73.8	185	18.83	2.8	
		83.2	166	16.71	2.9	
	1400	98.3	141	14.14	3.2	MRA282/90L MRF282/90L
	1400	23.2	580	59.93	0.7	MRA273/90L MRF273/90L
		33.2	408	41.90	1.0	
		46.2	294	30.11	1.4	
	1400	54.3	252	25.58	1.8	MRA272/90L MRF272/90L
		65.7	209	21.17	2.1	
		76.8	178	18.11	2.5	
		87.5	157	15.88	2.7	
		99.0	140	14.04	2.9	
		117.7	117	11.81	3.4	
	1400	39.1	347	35.59	0.8	MRA203/90L MRF203/90L
		49.6	270	28.01	1.0	
		56.8	240	24.47	1.2	
		60.6	222	22.95	1.3	
	1400	61.1	224	22.73	1.2	MRA202/90L MRF202/90L
		70.0	197	19.86	1.3	
		87.8	156	15.84	1.6	
		101.1	137	13.75	1.7	
		115.5	119	12.03	1.9	
		130.1	106	10.68	2.0	
		167.5	83	8.30	2.4	
		199.8	69	6.96	2.8	
		242.6	57	5.73	3.2	
	1400	67.3	204	20.67	1.0	MRA172/90L MRF172/90L
		77.0	179	18.06	1.1	
		96.6	142	14.40	1.4	



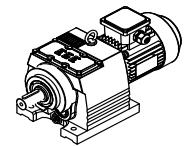
Motor Gücü Motor Power kW / HP	Motor Devri Motor Speeds d/d (rpm)	Çıkış Devri Output Speeds d/d (rpm)	Çıkış Momenti Output Torque Nm	Çevrim Oranı Ratio i	Servis Faktörü Service Factors fs	Redüktör Tipi Type
1,5kW 2,0HP	1400	111.1	125	12.51	1.6	MRA172/90L MRF172/90L
		127.0	108	10.95	1.8	
		147.6	94	9.42	1.9	
		157.4	88	8.83	2.0	
		185.1	75	7.51	2.2	
		213.2	65	6.52	2.3	
		243.4	57	5.71	2.5	
		294.3	47	4.72	2.9	
		344.0	40	4.04	3.0	
		416.2	33	3.34	3.4	
2,2kW 3,0HP	1400	99.9	137	13.91	1.0	MRA102/90L MRF102/90L
		126.5	109	10.99	1.3	
		138.2	99	10.06	1.4	
	1400	151.4	91	9.18	1.0	MRA102/90L MRF102/90L
		175.6	79	7.91	1.1	
		203.0	68	6.85	1.3	
		257.2	54	5.40	1.6	
		280.8	49	4.95	1.7	
		357.1	39	3.89	1.9	
2,2kW 3,0HP	1400	142.5	97	9.75	0.8	MRA002/90L MRF002/90L
		161.7	85	8.60	0.9	
		179.4	77	7.75	0.9	
		203.6	68	6.83	1.0	
		234.5	59	5.93	1.1	
		252.6	55	5.50	1.2	
		308.5	45	4.51	1.3	
		360.7	38	3.85	1.4	
		388.6	36	3.58	1.5	
	1400	1.2	16990	1213.61	1.0	MRA975/100L MRF975/100L
		1.5	12099	914.56	1.4	
		2.1	8914	662.41	1.9	
		2.6	7522	546.83	2.3	
2,2kW 3,0HP	1400	2.7	6943	510.01	2.4	MRA974/100L MRF974/100L
		3.1	6432	457.90	2.6	
		3.6	5427	390.33	3.1	
	1400	1.2	16866	1210.27	0.7	MRA875/100L MRF875/100L
		1.5	12059	915.67	1.0	
		1.9	9425	718.60	1.3	
	900	2.4	8016	390.66	1.5	MRA874/112M MRF874/112M
		2.7	7103	345.60	1.7	



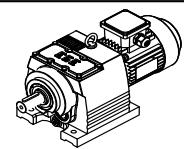
Motor Gücü Motor Power kW / HP	Motor Devri Motor Speeds d/d (rpm)	Çıkış Devri Output Speeds d/d (rpm)	Çıkış Momenti Output Torque Nm	Çevrim Oranı Ratio i	Servis Faktörü Service Factors fs	Redüktör Tipi Type
2,2kW 3,0HP	1400	3.1	6076	446.33	2.0	MRA874/100L MRF874/100L
		4.1	4835	345.60	2.5	
		5.8	3297	239.56	3.6	
	1400	2.4	8346	594.80	0.8	MRA774/100L MRF774/100L
		3.0	6453	467.34	1.1	
		3.9	5020	361.55	1.4	
		4.5	4349	313.05	1.6	
		5.8	3341	241.37	2.1	
		7.3	2637	190.92	2.7	
	900	4.8	4136	196.57	1.0	MRA673/112M MRF673/112M
		6.3	3111	149.08	1.3	
		7.6	2621	124.05	1.5	
		8.5	2312	110.53	1.7	
	900	7.0	2822	134.42	1.0	MRA573/112M MRF573/112M
		7.9	2508	118.93	1.1	
	1400	8.4	2370	167.29	1.2	MRA573/100L MRF573/100L
		10.4	1823	134.42	1.5	
		13.9	1431	100.51	2.0	
		17.2	1156	81.46	2.4	
		21.9	923	63.94	3.0	
		25.9	782	54.08	3.6	
		29.1	693	48.16	4.0	
	1400	10.0	1966	139.51	0.7	MRA473/100L MRF473/100L
		15.5	1258	90.48	1.2	
		19.4	1016	72.21	1.4	
		25.4	782	55.15	1.9	
		28.9	701	48.46	2.1	
		37.8	522	37.00	2.8	
		45.8	434	30.56	3.3	
	1400	22.9	881	61.17	0.9	MRA373/100L MRF373/100L
		29.5	669	47.42	1.2	
		40.2	499	34.83	1.6	
		56.1	353	24.97	2.3	
	1400	60.7	332	23.05	2.4	MRA372/100L MRF372/100L
		68.7	295	20.37	2.6	
		76.8	263	18.23	2.8	
		87.5	230	16.01	3.0	
		104.7	193	13.37	3.4	
		113.5	178	12.33	3.7	



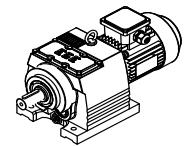
Motor Gücü Motor Power kW / HP	Motor Devri Motor Speeds d/d (rpm)	Çıkış Devri Output Speeds d/d (rpm)	Çıkış Momenti Output Torque Nm	Çevrim Oranı Ratio i	Servis Faktörü Service Factors fs	Redüktör Tipi Type
2,2kW 3,0HP	1400	26.2	762	53.47	0.8	MRA283/100L MRF283/100L
		33.8	582	41.46	1.0	
		46.0	429	30.45	1.4	
	1400	56.2	355	24.93	1.5	MRA282/100L MRF282/100L
		65.4	310	21.40	1.6	
		74.3	270	18.83	1.7	
		83.8	242	16.71	1.9	
		99.0	205	14.14	2.1	
		115.8	174	12.09	2.4	
		134.1	151	10.44	2.7	
		147.5	138	9.49	2.9	
		170.1	120	8.23	3.2	
	1400	38.8	509	36.11	0.8	MRA273/100L MRF273/100L
		46.5	429	30.11	0.9	
		55.5	361	25.24	1.1	
	1400	66.1	304	21.17	1.5	MRA272/100L MRF272/100L
		77.3	260	18.11	1.7	
		88.2	229	15.88	1.8	
		99.7	204	14.04	2.0	
		118.6	171	11.81	2.3	
		139.5	145	10.04	2.6	
		162.7	125	8.61	2.9	
		228.2	89	6.14	3.7	
		268.4	76	5.22	3.9	
	1400	61.0	324	22.95	0.8	MRA203/100L MRF203/100L
	1400	70.5	287	19.86	1.0	MRA202/100L MRF202/100L
		88.4	227	15.84	1.1	
		101.8	199	13.75	1.3	
		116.3	174	12.03	1.4	
		131.1	155	10.68	1.4	
		140.7	144	9.95	1.5	
		168.7	121	8.30	1.6	
		201.3	101	6.96	1.8	
		244.3	83	5.73	2.1	
		278.9	72	5.02	2.2	
		314.9	64	4.45	2.3	
		337.4	60	4.15	2.4	
		404.9	50	3.46	2.6	



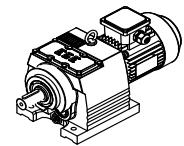
Motor Gücü Motor Power kW / HP	Motor Devri Motor Speeds d/d (rpm)	Çıkış Devri Output Speeds d/d (rpm)	Çıkış Momenti Output Torque Nm	Çevrim Oranı Ratio i	Servis Faktörü Service Factors fs	Redüktör Tipi Type
2,2kW 3,0HP	1400	97.3	207	14.40	1.0	MRA172/100L MRF172/100L
		111.9	181	12.51	1.1	
		127.9	158	10.95	1.2	
		148.7	136	9.42	1.3	
		158.5	128	8.83	1.4	
		186.4	109	7.51	1.5	
		214.7	95	6.52	1.6	
		245.2	83	5.71	1.8	
		296.4	68	4.72	1.9	
		346.5	58	4.04	2.1	
		419.2	48	3.34	2.3	
3kW 4,0HP	1400	1.5	16439	914.56	1.0	MRA975/100L MRF975/100L
		2.1	12113	662.41	1.4	
		2.6	10220	546.83	1.7	
	1400	3.1	8740	457.90	1.9	MRA974/100L MRF974/100L
		4.1	6535	344.10	2.6	
	900	2.7	9635	345.60	1.2	MRA874/132S MRF874/132S
	1400	3.6	7359	390.66	1.6	MRA874/100L MRF874/100L
		4.8	5506	292.09	2.2	
		5.9	4480	239.56	2.7	
		6.6	3982	211.56	3.0	
		7.5	3533	188.04	3.4	
		8.0	3289	174.65	3.6	
		9.5	2795	147.58	4.3	
		13.1	2041	107.58	5.9	
	1400	3.9	6821	361.55	1.0	MRA774/100L MRF774/100L
900	900	4.5	5916	208.78	1.2	MRA773/132S MRF773/132S
		7.1	3808	133.02	1.8	
		11.0	2378	86.08	2.9	
		14.0	1894	67.33	3.7	
900	900	6.3	4216	149.08	0.9	MRA673/132S MRF673/132S
		10.2	2660	93.04	1.5	
		15.6	1775	60.68	2.3	
		21.1	1289	44.75	3.1	
		27.8	968	33.95	4.1	
1400	1400	10.5	2479	134.42	1.1	MRA573/100L MRF573/100L
		17.2	1572	81.46	1.8	
		22.0	1256	63.94	2.2	



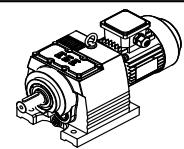
Motor Gücü Motor Power kW / HP	Motor Devri Motor Speeds d/d (rpm)	Çıkış Devri Output Speeds d/d (rpm)	Çıkış Momenti Output Torque Nm	Çevrim Oranı Ratio i	Servis Faktörü Service Factors fs	Redüktör Tipi Type
3kW 4,0HP	1400	26.0	1064	54.08	2.6	MRA573/100L MRF573/100L
		29.2	942	48.16	3.0	
		35.6	766	39.50	3.7	
		40.3	683	34.89	4.1	
		45.3	608	31.00	4.6	
	1400	15.5	1711	90.48	0.8	MRA473/100L MRF473/100L
		19.5	1382	72.21	1.0	
		25.5	1063	55.15	1.4	
		33.3	824	42.24	1.8	
		38.0	710	37.00	2.0	
	900	43.2	642	21.88	2.3	MRA472/132S MRF472/132S
		51.1	537	18.50	2.7	
		62.3	444	15.17	3.3	
	1400	29.6	909	47.42	0.9	MRA373/100L MRF373/100L
		40.3	677	34.83	1.2	
		48.3	558	29.12	1.4	
		56.3	480	24.97	1.7	
	1400	61.0	452	23.05	1.8	MRA372/100L MRF372/100L
		69.0	400	20.37	1.9	
		77.1	358	18.23	2.0	
		87.8	313	16.01	2.2	
		105.1	262	13.37	2.5	
		113.9	242	12.33	2.6	
		131.7	210	10.67	2.9	
		151.1	183	9.30	3.2	
		172.4	161	8.15	3.4	
	1400	46.1	583	30.45	1.0	MRA283/100L MRF283/100L
	1400	56.4	484	24.93	1.2	MRA282/100L MRF282/100L
		65.7	421	21.40	1.3	
		74.6	367	18.83	1.4	
		84.1	329	16.71	1.5	
		99.4	278	14.14	1.7	
		116.2	237	12.09	1.9	
		134.5	205	10.44	2.1	
		148.0	187	9.49	2.2	
		170.7	162	8.23	2.5	
		197.2	141	7.12	2.7	
		227.5	121	6.18	3.0	
		265.8	104	5.29	3.1	



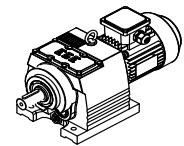
Motor Gücü Motor Power kW / HP	Motor Devri Motor Speeds d/d (rpm)	Çıkış Devri Output Speeds d/d (rpm)	Çıkış Momenti Output Torque Nm	Çevrim Oranı Ratio i	Servis Faktörü Service Factors fs	Redüktör Tipi Type
3kW 4,0HP	1400	307.8	90	4.56	3.1	MRA282/100L MRF282/100L
		338.6	82	4.15	3.2	
		390.7	71	3.60	3.2	
	1400	55.7	491	25.24	0.8	MRA273/100L MRF273/100L
	1400	66.4	413	21.17	1.1	MRA272/100L MRF272/100L
		77.6	354	18.11	1.2	
		88.5	312	15.88	1.3	
		100.1	277	14.04	1.5	
		119.0	232	11.81	1.7	
		140.0	198	10.04	1.9	
		163.3	170	8.61	2.1	
		229.0	121	6.14	2.5	
		269.3	103	5.22	2.6	
		313.9	89	4.48	2.7	
	1400	88.7	309	15.84	0.9	MRA202/100L MRF202/100L
		102.2	271	13.75	1.0	
		116.8	236	12.03	1.2	
		131.6	210	10.68	1.3	
		141.2	196	9.95	1.4	
		169.3	164	8.30	1.7	
		202.0	137	6.96	2.0	
		245.2	112	5.73	2.5	
		279.9	99	5.02	2.8	
		316.0	88	4.45	3.2	
		338.6	82	4.15	3.4	
		406.3	68	3.46	4.1	
4kW 5,5HP	1400	112.3	246	12.51	0.8	MRA172/100L MRF172/100L
		128.3	214	10.95	0.9	
		149.2	185	9.42	1.1	
		159.1	174	8.83	1.1	
		187.1	148	7.51	1.2	
		215.5	128	6.52	1.3	
		246.0	112	5.71	1.5	
	1400	297.5	94	4.72	1.5	MRA172/100L MRF172/100L
		347.7	80	4.04	1.8	
		420.7	66	3.34	2.1	
	1400	2.2	15922	662.41	1.1	MRA975/112M MRF975/112M
		2.6	13436	546.83	1.3	



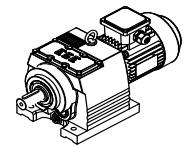
Motor Gücü Motor Power kW / HP	Motor Devri Motor Speeds d/d (rpm)	Çıkış Devri Output Speeds d/d (rpm)	Çıkış Momenti Output Torque Nm	Çevrim Oranı Ratio i	Servis Faktörü Service Factors fs	Redüktör Tipi Type
4kW 5,5HP	1400	2.8	12403	510.01	1.4	MRA974/112M MRF974/112M
		3.7	9695	390.33	1.8	
		4.7	7595	305.27	2.2	
		6.6	5388	215.99	3.2	
	900	2.7	12915	345.60	0.9	MRA874/132M MRF874/132M
		3.2	11024	292.09	1.1	
	1400	3.6	9674	390.66	1.2	MRA874/112M MRF874/112M
		4.9	7238	292.09	1.7	
		5.9	5889	239.56	2.0	
		7.6	4644	188.04	2.6	
		8.2	4324	174.65	2.8	
	900	8.5	4223	110.15	2.8	MRA873/132M MRF873/132M
		9.5	3760	98.61	3.2	
	900	4.5	7936	208.78	0.9	MRA773/132M MRF773/132M
		5.3	6773	178.74	1.0	
		6.3	5720	148.70	1.2	
		7.1	5109	133.02	1.4	
		8.2	4379	115.04	1.6	
		9.5	3748	98.43	1.9	
		10.9	3190	86.08	2.2	
		12.4	2978	75.89	2.4	
		14.0	2542	67.33	2.8	
	1400	8.1	4411	174.86	0.9	MRA673/112M MRF673/112M
		9.6	3773	149.08	1.1	
		11.5	3058	124.05	1.3	
		12.9	2873	110.53	1.4	
	900	15.5	2381	60.68	1.7	MRA673/132M MRF673/132M
		17.6	2088	53.34	1.9	
		18.1	1986	52.05	2.0	
		21.0	1730	44.75	2.3	
		24.2	1500	38.83	2.7	
		27.7	1298	33.95	3.1	
		31.5	1159	29.84	3.5	
	1400	14.2	2560	100.51	1.1	MRA573/112M MRF573/112M
		19.8	1803	71.94	1.6	
		26.3	1398	54.08	2.0	
		29.6	1240	48.16	2.3	
		36.1	1006	39.50	2.8	
		40.8	898	34.89	3.1	
		46.0	799	31.00	3.5	



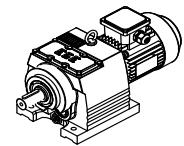
Motor Gücü Motor Power kW / HP	Motor Devri Motor Speeds d/d (rpm)	Çıkış Devri Output Speeds d/d (rpm)	Çıkış Momenti Output Torque Nm	Çevrim Oranı Ratio i	Servis Faktörü Service Factors fs	Redüktör Tipi Type
4kW 5,5HP	1400	53.4	691	26.68	4.1	MRA572/112M MRF572/112M
		62.7	590	22.74	4.7	
	1400	19.7	1817	72.21	0.8	MRA473/112M MRF473/112M
		25.8	1397	55.15	1.0	
		29.4	1253	48.46	1.2	
		38.5	934	37.00	1.6	
		46.6	777	30.56	1.9	
		56.2	655	25.36	2.2	
	1400	65.1	564	21.88	2.6	MRA472/112M MRF472/112M
		77.0	480	18.50	3.0	
		83.6	440	17.04	3.3	
		94.0	391	15.17	3.7	
	1400	40.9	891	34.83	0.9	MRA373/112M MRF373/112M
		48.9	735	29.12	1.1	
		57.1	631	24.97	1.3	
		66.6	548	21.39	1.5	
	1400	69.9	527	20.37	1.5	MRA372/112M MRF372/112M
		78.2	472	18.23	1.7	
		89.0	411	16.01	1.9	
		106.6	344	13.37	2.3	
		115.6	318	12.33	2.5	
		133.5	277	10.67	2.9	
		153.3	241	9.30	3.3	
		174.8	212	8.15	3.8	
		210.9	176	6.76	4.5	
	1400	75.7	482	18.83	1.0	MRA282/112M MRF282/112M
		85.3	432	16.71	1.1	
		100.8	366	14.14	1.2	
		117.8	312	12.09	1.3	
		136.5	270	10.44	1.6	
		150.1	247	9.49	1.6	
		173.1	213	8.23	1.9	
		200.0	184	7.12	2.1	
		230.8	160	6.18	2.2	
		269.6	137	5.29	2.3	
		312.2	118	4.56	2.5	
		343.4	108	4.15	2.6	
		396.2	93	3.60	2.8	
	1400	457.9	80	3.11	7.2	MRA282/112M MRF282/112M



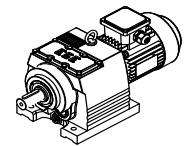
Motor Gücü Motor Power kW / HP	Motor Devri Motor Speeds d/d (rpm)	Çıkış Devri Output Speeds d/d (rpm)	Çıkış Momenti Output Torque Nm	Çevrim Oranı Ratio i	Servis Faktörü Service Factors fs	Redüktör Tipi Type
4kW 5,5HP	1400	75.9	480	18.77	0.8	MRA273/112M MRF273/112M
	1400	89.8	410	15.88	1.0	MRA272/112M MRF272/112M
		101.5	365	14.04	1.1	
		120.7	305	11.81	1.2	
		142.0	261	10.04	1.5	
		165.6	224	8.61	1.6	
		232.3	159	6.14	2.0	
		273.2	136	5.22	1.9	
		318.4	116	4.48	1.9	
	1400	133.4	277	10.68	0.8	MRA202/112M MRF202/112M
		143.2	257	9.95	0.8	
		171.7	215	8.30	0.9	
		204.9	181	6.96	1.0	
		248.7	148	5.73	1.1	
		283.9	130	5.02	1.2	
		320.5	115	4.45	1.3	
		343.4	108	4.15	1.3	
		412.1	89	3.46	1.5	
		218.5	169	6.52	0.9	
5,5kW 7,0HP	1400	249.5	148	5.71	1.0	MRA172/112M MRF172/112M
		301.7	122	4.72	1.1	
		352.6	105	4.04	1.2	
		426.7	87	3.34	1.4	
		2.2	21817	662.41	0.8	MRA975/132S MRF975/132S
	1400	2.6	18410	546.83	0.9	
		2.8	16995	510.01	1.0	MRA974/132S MRF974/132S
		3.7	13284	390.33	1.3	
		4.7	10406	305.27	1.6	
		5.3	9181	272.19	1.9	
		6.6	7382	215.99	2.3	
		7.4	6548	193.09	2.6	
	1400	8.3	5859	172.05	2.9	
		4.1	11834	345.60	1.0	MRA874/132S MRF874/132S
		4.9	9918	292.09	1.2	
		6.0	8070	239.56	1.5	
		6.8	7173	211.56	1.7	
		7.6	6364	188.04	1.9	
		9.7	5035	147.58	2.4	
		11.4	4237	125.67	2.8	



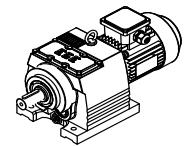
Motor Gücü Motor Power kW / HP	Motor Devri Motor Speeds d/d (rpm)	Çıkış Devri Output Speeds d/d (rpm)	Çıkış Momenti Output Torque Nm	Çevrim Oranı Ratio i	Servis Faktörü Service Factors fs	Redüktör Tipi Type
5,5kW 7,0HP	900	6.4	7830	148.70	0.9	MRA773/132M MRF773/132M
	1400	8.0	6165	178.74	1.1	MRA773/132S MRF773/132S
		9.6	5144	148.70	1.4	
		10.7	4823	133.02	1.5	
		14.5	3404	98.43	2.1	
		18.8	2608	75.89	2.7	
		21.2	2398	67.33	2.9	
	1400	11.5	4191	124.05	1.0	MRA673/132S MRF673/132S
		15.4	3255	93.04	1.2	
		20.6	2422	69.42	1.7	
		23.6	2132	60.68	1.9	
		26.8	1864	53.34	2.1	
		32.0	1566	44.75	2.6	
		36.8	1371	38.83	2.9	
		42.1	1195	33.95	3.3	
		47.9	1038	29.84	3.9	
	1400	17.6	2833	81.46	1.0	MRA573/132S MRF573/132S
		22.4	2264	63.94	1.2	
		29.7	1698	48.16	1.6	
		36.2	1379	39.50	2.0	
		41.0	1231	34.89	2.3	
		46.1	1095	31.00	2.6	
	1400	53.6	947	26.68	3.0	MRA572/132S MRF572/132S
		62.9	809	22.74	3.5	
		75.6	670	18.92	4.2	
		84.8	599	16.87	4.7	
	1400	25.9	1915	55.15	0.8	MRA473/132S MRF473/132S
		29.5	1717	48.46	0.8	
		33.9	1485	42.24	1.0	
		38.6	1280	37.00	1.1	
		46.8	1064	30.56	1.4	
		56.4	897	25.36	1.6	
	1400	65.3	772	21.88	1.9	MRA472/132S MRF472/132S
		77.3	658	18.50	2.2	
		83.9	602	17.04	2.4	
		106.7	475	13.40	3.1	
		120.1	422	11.91	3.4	
		134.1	379	10.66	3.8	
		151.9	335	9.42	4.3	



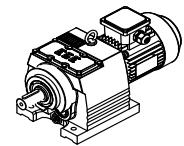
Motor Gücü Motor Power kW / HP	Motor Devri Motor Speeds d/d (rpm)	Çıkış Devri Output Speeds d/d (rpm)	Çıkış Momenti Output Torque Nm	Çevrim Oranı Ratio i	Servis Faktörü Service Factors fs	Redüktör Tipi Type
5,5kW 7,0HP	1400	57.3	865	24.97	0.9	MRA373/132S MRF373/132S
		66.9	752	21.39	1.1	
		70.1	715	20.39	1.1	
		77.5	647	18.46	1.2	
	1400	89.3	564	16.01	1.4	MRA372/132S MRF372/132S
		107.0	472	13.37	1.7	
		116.0	437	12.33	1.8	
		134.0	379	10.67	2.1	
		153.8	330	9.30	2.4	
		175.4	290	8.15	2.8	
		211.6	240	6.76	3.3	
		242.4	210	5.90	3.8	
		276.7	184	5.17	4.3	
		291.8	174	4.90	4.6	
		337.4	151	4.24	5.3	
		387.0	131	3.70	6.1	
7,5kW 10HP	1400	101.1	501	14.14	1.2	MRA282/132S MRF282/132S
		118.2	427	12.09	1.4	
		136.9	369	10.44	1.6	
		150.6	338	9.49	1.7	
		173.8	292	8.23	2.0	
		200.7	253	7.12	2.3	
		231.6	220	6.18	2.6	
		270.5	188	5.29	3.1	
		313.3	162	4.56	3.6	
		344.6	148	4.15	3.9	
		397.6	128	3.60	4.5	
		459.5	111	3.11	5.2	
7,5kW 10HP	1400	3.7	18178	390.33	0.9	MRA974/132M MRF974/132M
		4.7	14239	305.27	1.2	
	900	5.1	13234	186.91	1.3	MRA973/160M MRF973/160M
		6.3	10676	149.99	1.6	
		7.2	9476	132.80	1.8	
		8.2	8220	116.15	2.1	
		10.5	6438	90.46	2.6	
		11.7	5830	81.21	2.9	
	1400	4.9	13572	292.09	0.9	MRA874/132M MRF874/132M
		5.9	11043	239.56	1.1	
		6.7	9816	211.56	1.2	
		7.6	8708	188.04	1.4	



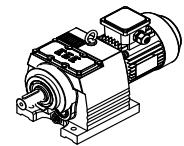
Motor Gücü Motor Power kW / HP	Motor Devri Motor Speeds d/d (rpm)	Çıkış Devri Output Speeds d/d (rpm)	Çıkış Momenti Output Torque Nm	Çevrim Oranı Ratio i	Servis Faktörü Service Factors fs	Redüktör Tipi Type
7,5kW 10HP	900	8.6	7835	110.15	1.5	MRA873/160M MRF873/160M
		9.6	6975	98.61	1.7	
		17.0	3980	55.86	3.0	
	1400	10.7	6602	133.02	1.1	MRA773/132M MRF773/132M
		16.6	4078	86.08	1.7	
		21.2	3281	67.33	2.1	
	1400	15.3	4455	93.04	0.9	MRA673/132M MRF673/132M
		20.5	3315	69.42	1.2	
		26.7	2552	53.34	1.6	
		31.8	2143	44.75	1.9	
		36.7	1877	38.83	2.1	
		42.0	1637	33.95	2.4	
		47.8	1421	29.84	2.8	
	1400	62.2	1103	22.90	3.3	MRA672/132M MRF672/132M
		69.5	1002	20.49	3.5	
	1400	22.3	3098	63.94	0.9	MRA573/132M MRF573/132M
		26.3	2624	54.08	1.1	
		29.6	2325	48.16	1.2	
		36.1	1888	39.50	1.5	
		40.8	1685	34.89	1.7	
		46.0	1499	31.00	1.9	
	1400	53.4	1297	26.68	2.2	MRA572/132M MRF572/132M
		62.7	1107	22.74	2.5	
		75.3	917	18.92	2.8	
		84.5	819	16.87	3.1	
		99.2	695	14.37	3.5	
		115.4	601	12.35	3.8	
	1400	38.5	1752	37.00	0.8	MRA473/132M MRF473/132M
		46.6	1456	30.56	1.0	
		56.2	1228	25.36	1.2	
	1400	65.1	1057	21.88	1.4	MRA472/132M MRF472/132M
		77.0	900	18.50	1.6	
		83.6	825	17.04	1.6	
		94.0	735	15.17	1.7	
		106.4	650	13.40	1.9	
		119.7	579	11.91	2.1	
		133.7	519	10.66	2.2	
		151.3	458	9.42	2.4	
		170.3	407	8.37	2.6	
		183.3	378	7.78	2.7	



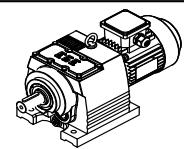
Motor Gücü Motor Power kW / HP	Motor Devri Motor Speeds d/d (rpm)	Çıkış Devri Output Speeds d/d (rpm)	Çıkış Momenti Output Torque Nm	Çevrim Oranı Ratio i	Servis Faktörü Service Factors fs	Redüktör Tipi Type
7,5kW 10HP	1400	216.9	320	6.57	3.1	MRA472/132M MRF472/132M
	1400	89.0	772	16.01	1.0	MRA372/132M MRF372/132M
		106.6	645	13.37	1.1	
		115.6	597	12.33	1.2	
		133.5	520	10.67	1.3	
		153.3	453	9.30	1.5	
		174.8	398	8.15	1.6	
		210.9	330	6.76	1.8	
		241.6	288	5.90	2.1	
		275.8	252	5.17	2.2	
11kW 15HP	1400	136.5	506	10.44	1.0	MRA282/132M MRF282/132M
		150.1	463	9.49	1.1	
		173.1	400	8.23	1.3	
		200.0	346	7.12	1.4	
		230.8	300	6.18	1.5	
		269.6	258	5.29	1.6	
		312.2	222	4.56	1.6	
		343.4	202	4.15	1.5	
		396.2	175	3.60	1.4	
		457.9	151	3.11	1.7	
11kW 15HP	900	5.1	19421	186.91	0.9	MRA973/160L MRF973/160L
		7.2	13907	132.80	1.2	
	1400	8.7	11439	166.70	1.5	MRA973/160M MRF973/160M
		10.9	9510	132.80	1.8	
		16.0	6114	90.46	2.8	
	900	9.6	10231	98.61	1.2	MRA873/160L MRF873/160L
		14.8	6702	63.99	1.8	
	1400	14.7	6703	98.61	1.8	MRA873/160M MRF873/160M
		19.4	5207	74.60	2.3	
		26.0	3841	55.86	3.1	
11kW 15HP	1400	10.9	9517	133.02	0.7	MRA773/160M MRF773/160M
		16.8	5880	86.08	1.2	
		21.5	4731	67.33	1.5	
		25.0	3998	57.89	1.8	
		33.2	3038	43.64	2.3	
		37.3	2717	38.86	2.6	
		47.2	2130	30.74	3.3	
	1400	23.9	4206	60.68	1.0	MRA673/160M MRF673/160M
		27.2	3680	53.34	1.1	



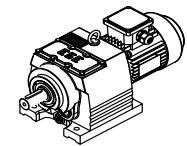
Motor Gücü Motor Power kW / HP	Motor Devri Motor Speeds d/d (rpm)	Çıkış Devri Output Speeds d/d (rpm)	Çıkış Momenti Output Torque Nm	Çevrim Oranı Ratio i	Servis Faktörü Service Factors fs	Redüktör Tipi Type
11kW 15HP	1400	32.4	3091	44.75	1.3	MRA673/160M MRF673/160M
		37.3	2707	38.83	1.4	
		42.7	2359	33.95	1.6	
		48.6	2048	29.84	1.9	
		55.0	1842	26.34	2.1	
	1400	63.3	1591	22.90	2.1	MRA672/160M MRF672/160M
		70.8	1445	20.49	2.4	
		81.9	1238	17.71	2.7	
		94.5	1072	15.34	3.1	
		108.1	940	13.42	3.4	
		122.6	830	11.83	3.7	
	1400	36.7	2721	39.50	1.0	MRA573/160M MRF573/160M
		41.6	2429	34.89	1.2	
		46.8	2161	31.00	1.3	
		55.3	1824	26.22	1.5	
	1400	63.8	1596	22.74	1.5	MRA572/160M MRF572/160M
		76.6	1323	18.92	1.8	
		86.0	1182	16.87	2.0	
		100.9	1002	14.37	2.4	
		117.4	866	12.35	2.5	
		135.3	752	10.72	2.9	
		154.8	660	9.37	3.3	
		176.0	579	8.24	3.8	
		198.1	515	7.32	4.1	
	1400	67.5	1476	21.48	1.0	MRA473/160M MRF473/160M
		81.4	1241	17.82	1.2	
	1400	85.1	1189	17.04	1.1	MRA472/160M MRF472/160M
		95.6	1060	15.17	1.2	
		108.2	936	13.40	1.3	
		121.8	834	11.91	1.5	
		136.0	748	10.66	1.6	
		154.0	661	9.42	1.7	
		173.3	587	8.37	1.9	
		186.5	545	7.78	2.0	
		220.7	462	6.57	2.2	
		259.3	392	5.59	2.3	
		300.1	340	4.83	2.5	
		323.3	315	4.49	2.5	
		383.2	267	3.78	2.6	
		448.8	227	3.23	2.6	



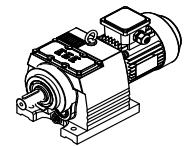
Motor Gücü Motor Power kW / HP	Motor Devri Motor Speeds d/d (rpm)	Çıkış Devri Output Speeds d/d (rpm)	Çıkış Momenti Output Torque Nm	Çevrim Oranı Ratio i	Servis Faktörü Service Factors fs	Redüktör Tipi Type
15kW 20HP	900	7.3	18672	132.80	0.9	MRA973/180L MRF973/180L
	1400	8.6	15764	166.70	1.1	MRA973/160L MRF973/160L
		10.8	13106	132.80	1.3	
		15.9	8426	90.46	2.0	
		20.7	6590	69.23	2.6	
		26.5	5253	54.14	3.2	
	900	8.8	15428	110.15	0.8	MRA873/180L MRF873/180L
		12.9	10481	74.60	1.1	
	1400	13.0	10573	110.15	1.1	MRA873/160L MRF873/160L
		19.2	7174	74.60	1.7	
		25.7	5292	55.86	2.3	
		35.8	3811	40.06	3.1	
	1400	14.6	9257	98.43	0.8	MRA773/160L MRF773/160L
		21.3	6521	67.33	1.1	
		24.8	5510	57.89	1.3	
		32.9	4187	43.64	1.7	
		41.6	3278	34.47	2.1	
		48.4	2848	29.64	2.5	
		55.9	2459	25.68	2.8	
		64.2	2142	22.35	3.3	
	1400	67.9	2026	21.14	3.5	MRA772/160L MRF772/160L
	1400	32.1	4259	44.75	0.9	MRA673/160L MRF673/160L
		42.3	3252	33.95	1.2	
		54.5	2538	26.34	1.6	
	1400	62.7	2193	22.90	1.8	MRA672/160L MRF672/160L
		70.0	1992	20.49	2.0	
		81.0	1706	17.71	2.3	
		93.5	1478	15.34	2.7	
		107.0	1295	13.42	3.1	
		121.3	1145	11.83	3.5	
		136.8	1017	10.49	3.9	
		153.4	908	9.36	4.4	
		159.1	871	9.02	4.6	
		183.6	758	7.82	5.3	
	1400	46.3	2979	31.00	0.9	MRA573/160L MRF573/160L
		54.7	2514	26.22	1.1	
	1400	63.1	2199	22.74	1.3	MRA572/160L MRF572/160L
		75.8	1823	18.92	1.5	



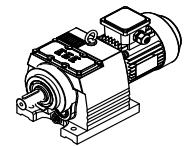
Motor Gücü Motor Power kW / HP	Motor Devri Motor Speeds d/d (rpm)	Çıkış Devri Output Speeds d/d (rpm)	Çıkış Momenti Output Torque Nm	Çevrim Oranı Ratio i	Servis Faktörü Service Factors fs	Redüktör Tipi Type
15kW 20HP	1400	85.1	1628	16.87	1.7	MRA572/160L MRF572/160L
		99.9	1382	14.37	2.0	
		116.2	1193	12.35	2.3	
		133.9	1037	10.72	2.7	
		153.2	909	9.37	3.1	
		174.2	799	8.24	3.5	
		196.0	710	7.32	3.9	
		225.9	618	6.35	4.5	
		258.0	541	5.56	5.2	
		293.4	475	4.89	5.9	
		332.4	420	4.32	6.7	
	1400	80.5	1710	17.82	0.8	MRA473/160L MRF473/160L
18,5kW 25HP	1400	84.2	1639	17.04	0.9	MRA472/160L MRF472/160L
		94.6	1461	15.17	1.0	
		107.1	1291	13.40	1.1	
		120.5	1150	11.91	1.3	
		134.6	1031	10.66	1.4	
		152.4	911	9.42	1.6	
		171.5	808	8.37	1.8	
		184.6	751	7.78	1.9	
		218.4	637	6.57	2.3	
		256.6	541	5.59	2.7	
		297.0	470	4.83	3.1	
		319.9	436	4.49	3.3	
		379.2	368	3.78	3.9	
		444.2	314	3.23	4.6	
	900	8.7	19175	166.70	0.9	MRA973/180M MRF973/180M
		11.0	15943	132.80	1.1	
		16.1	10250	90.46	1.7	
		21.0	8016	69.23	2.1	
		26.9	6390	54.14	2.7	
		30.1	5673	48.27	3.0	
		34.8	4843	41.79	3.5	
	1400	12.9	12994	74.60	0.9	MRA873/200L MRF873/200L
		15.0	11154	63.99	1.1	
		17.0	9645	85.47	1.2	
	1400	22.7	7435	63.99	1.6	MRA873/180M MRF873/180M
		26.0	6438	55.86	1.9	



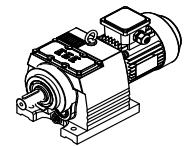
Motor Gücü Motor Power kW / HP	Motor Devri Motor Speeds d/d (rpm)	Çıkış Devri Output Speeds d/d (rpm)	Çıkış Momenti Output Torque Nm	Çevrim Oranı Ratio i	Servis Faktörü Service Factors fs	Redüktör Tipi Type
18,5kW 25HP	1400	31.9	5140	45.57	2.3	MRA873/180M MRF873/180M
		36.3	4636	40.06	2.6	
	1400	19.2	8628	75.89	0.8	MRA773/180M MRF773/180M
		25.1	6703	57.89	1.0	
		29.0	5875	50.14	1.2	
		37.4	4554	38.86	1.5	
		47.3	3571	30.74	2.0	
		56.7	2991	25.68	2.3	
		65.1	2606	22.35	2.7	
	1400	68.8	2464	21.14	2.8	MRA772/180M MRF772/180M
		79.0	2158	18.41	3.2	
	1400	37.5	4538	38.83	0.9	MRA673/180M MRF673/180M
		48.8	3434	29.84	1.2	
		55.2	3088	26.34	1.3	
	1400	63.5	2668	22.90	1.5	MRA672/180M MRF672/180M
		71.0	2423	20.49	1.7	
		82.1	2075	17.71	1.9	
		94.8	1799	15.34	2.2	
		108.4	1577	13.42	2.5	
		123.0	1393	11.83	2.9	
		138.7	1238	10.49	3.2	
		155.5	1105	9.36	3.6	
		161.3	1060	9.02	3.8	
		186.2	922	7.82	4.3	
		214.1	801	6.80	5.0	
		257.0	668	5.66	6.0	
	1400	76.9	2217	18.92	1.3	MRA572/180M MRF572/180M
		86.3	1981	16.87	1.4	
		101.3	1680	14.37	1.7	
		117.8	1452	12.35	1.9	
		135.7	1261	10.72	2.2	
		155.3	1106	9.37	2.5	
		176.6	972	8.24	2.9	
		198.7	863	7.32	3.2	
		229.0	751	6.35	3.7	
		261.6	658	5.56	4.3	
		297.5	578	4.89	4.8	
		337.0	512	4.32	5.5	
	1400	108.6	1571	13.40	0.8	MRA472/180M MRF472/180M
		122.2	1399	11.91	0.9	



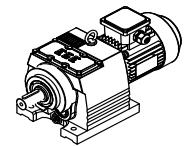
Motor Gücü Motor Power kW / HP	Motor Devri Motor Speeds d/d (rpm)	Çıkış Devri Output Speeds d/d (rpm)	Çıkış Momenti Output Torque Nm	Çevrim Oranı Ratio i	Servis Faktörü Service Factors fs	Redüktör Tipi Type
18,5kW 25HP	1400	154.5	1108	9.42	1.0	MRA472/180M MRF472/180M
		173.9	983	8.37	1.1	
		187.1	914	7.78	1.1	
		221.5	775	6.57	1.2	
		260.2	658	5.59	1.3	
		301.2	572	4.83	1.4	
		324.4	530	4.49	1.3	
		384.5	447	3.78	1.3	
		450.4	382	3.23	1.6	
22kW 30HP	1400	10.9	19025	132.80	0.9	MRA973/180L MRF973/180L
		16.0	12232	90.46	1.4	
		20.9	9566	69.23	1.8	
		26.8	7626	54.14	2.2	
		30.0	6770	48.27	2.5	
		34.7	5779	41.79	2.9	
		39.4	5179	36.84	3.3	
	900	12.9	15372	74.60	0.8	MRA873/200L MRF873/200L
		15.1	13196	63.99	0.9	
22kW 30HP	1400	17.0	11509	85.47	1.0	MRA873/180L MRF873/180L
		19.4	10413	74.60	1.2	
		26.0	7682	55.86	1.6	
		31.8	6133	45.57	2.0	
		36.2	5532	40.06	2.2	
	1400	25.0	7998	57.89	0.9	MRA773/180L MRF773/180L
		33.2	6077	43.64	1.2	
		37.3	5434	38.86	1.3	
		42.1	4758	34.47	1.5	
		47.2	4261	30.74	1.6	
		48.9	4135	29.64	1.7	
		56.5	3571	25.68	2.0	
		64.9	3110	22.35	2.3	
22kW 30HP	1400	68.6	2941	21.14	2.4	MRA772/180L MRF772/180L
		78.8	2575	18.41	2.7	
		89.5	2261	16.19	3.1	
		100.9	2012	14.37	3.5	
	1400	48.6	4098	29.84	1.0	MRA673/180L MRF673/180L
		55.0	3685	26.34	1.1	
	1400	63.3	3183	22.90	1.1	MRA672/180L MRF672/180L
		70.8	2891	20.49	1.2	
		81.9	2477	17.71	1.4	



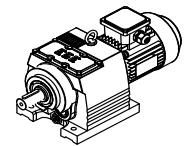
Motor Gücü Motor Power kW / HP	Motor Devri Motor Speeds d/d (rpm)	Çıkış Devri Output Speeds d/d (rpm)	Çıkış Momenti Output Torque Nm	Çevrim Oranı Ratio i	Servis Faktörü Service Factors fs	Redüktör Tipi Type
22kW 30HP	1400	94.5	2147	15.34	1.6	MRA672/180L MRF672/180L
		108.1	1881	13.42	1.8	
		122.6	1662	11.83	1.9	
		138.2	1478	10.49	2.1	
		155.0	1318	9.36	2.3	
		160.7	1266	9.02	2.3	
		185.5	1100	7.82	2.5	
		213.3	956	6.80	2.8	
		256.1	797	5.66	3.3	
		288.9	707	5.02	3.7	
		324.0	632	4.48	4.0	
		335.8	609	4.32	4.1	
		387.2	529	3.74	4.6	
30kW 40HP	1400	76.6	2646	18.92	1.0	MRA572/180L MRF572/180L
		86.0	2363	16.87	1.1	
		100.9	2006	14.37	1.2	
		117.4	1732	12.35	1.4	
		135.3	1505	10.72	1.6	
		154.8	1320	9.37	1.7	
		176.0	1160	8.24	1.9	
		198.1	1031	7.32	2.1	
		228.2	897	6.35	2.4	
		260.7	785	5.56	2.7	
		296.5	690	4.89	2.9	
		335.8	611	4.32	3.2	
	1400	154.0	1322	9.42	0.9	MRA472/180L MRF472/180L
		173.3	1174	8.37	1.0	
		186.5	1091	7.78	1.1	
		220.7	925	6.57	1.2	
		259.3	786	5.59	1.3	
		300.1	683	4.83	1.5	
		323.3	633	4.49	1.5	
		383.2	533	3.78	1.7	
		448.8	456	3.23	1.9	
	1400	16.3	16454	90.46	1.0	MRA973/200L MRF973/200L
		21.2	12868	69.23	1.3	
		27.2	10258	54.14	1.7	
		30.5	9107	48.27	1.9	
		35.2	7775	41.79	2.2	
		39.9	6968	36.84	2.4	



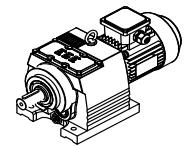
Motor Gücü Motor Power kW / HP	Motor Devri Motor Speeds d/d (rpm)	Çıkış Devri Output Speeds d/d (rpm)	Çıkış Momenti Output Torque Nm	Çevrim Oranı Ratio i	Servis Faktörü Service Factors fs	Redüktör Tipi Type
30kW 40HP	1400	45.0	6068	32.68	2.8	MRA973/200L MRF973/200L
		50.5	5404	29.14	3.1	
	1400	23.0	11933	63.99	1.0	MRA873/200L MRF873/200L
		26.3	10333	55.86	1.2	
		32.3	8249	45.57	1.5	
		43.1	6320	34.12	1.9	
		49.0	5482	30.00	2.2	
		54.3	4948	27.06	2.4	
		62.3	4347	23.58	2.8	
		73.4	3668	20.04	3.3	
		83.4	3246	17.62	3.7	
		92.5	2911	15.90	4.1	
	1400	106.1	2540	13.85	4.7	MRA773/200L MRF773/200L
		42.6	6401	34.47	1.1	
		49.6	5562	29.64	1.3	
		57.2	4803	25.68	1.5	
	1400	65.8	4182	22.35	1.7	MRA772/200L MRF772/200L
		69.5	3957	21.14	1.8	
		79.9	3464	18.41	2.0	
		90.8	3042	16.19	2.3	
		102.3	2707	14.37	2.6	
		114.6	2430	12.82	2.9	
		127.7	2177	11.51	3.2	
		135.3	2053	10.87	3.4	
	1400	154.7	1806	9.50	3.9	MRA672/200L MRF672/200L
		83.0	3332	17.71	1.1	
		95.8	2888	15.34	1.2	
		109.6	2531	13.42	1.3	
		124.3	2236	11.83	1.5	
		140.1	1988	10.49	1.6	
		157.1	1774	9.36	1.7	
		163.0	1703	9.02	1.8	
		188.1	1480	7.82	2.0	
		216.3	1286	6.80	2.3	
		259.7	1073	5.66	2.7	
		292.9	952	5.02	3.0	
		328.4	851	4.48	3.3	
		340.5	820	4.32	3.3	
		392.6	713	3.74	3.7	
		452.2	618	3.25	4.0	



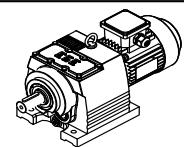
Motor Gücü Motor Power kW / HP	Motor Devri Motor Speeds d/d (rpm)	Çıkış Devri Output Speeds d/d (rpm)	Çıkış Momenti Output Torque Nm	Çevrim Oranı Ratio i	Servis Faktörü Service Factors fs	Redüktör Tipi Type
30kW 40HP	1400	102.3	2698	14.37	1.0	MRA572/200L MRF572/200L
		119.0	2330	12.35	1.2	
		137.1	2024	10.72	1.4	
		156.9	1776	9.37	1.6	
		178.4	1560	8.24	1.8	
		200.8	1387	7.32	2.0	
		231.4	1206	6.35	2.3	
		264.3	1055	5.56	2.7	
		300.6	928	4.89	3.0	
		340.5	821	4.32	3.4	
37kW 50HP	1400	21.3	15818	69.23	1.1	MRA973/225S MRF973/225S
		27.2	12610	54.14	1.3	
		30.6	11194	48.27	1.5	
		35.3	9557	41.79	1.8	
		40.0	8564	36.84	2.0	
		45.1	7459	32.68	2.3	
		50.6	6643	29.14	2.6	
		57.4	5942	25.72	2.9	
		65.1	5224	22.67	3.3	
		32.4	10140	45.57	1.2	
37kW 50HP	1400	43.2	7768	34.12	1.5	MRA873/225S MRF873/225S
		49.2	6738	30.00	1.8	
		54.5	6081	27.06	2.0	
		62.5	5343	23.58	2.2	
		73.6	4508	20.04	2.7	
		83.7	3990	17.62	3.0	
		92.8	3578	15.90	3.4	
		106.5	3123	13.85	3.8	
		112.2	2951	13.14	4.1	
		48.0	7045	30.74	1.0	MRA773/225S MRF773/225S
37kW 50HP	1400	57.4	5904	25.68	1.2	
		66.0	5141	22.35	1.4	
		76.5	4446	19.29	1.6	
		85.8	3931	17.19	1.8	
		102.7	3327	14.37	2.1	MRA772/225S MRF772/225S
37kW 50HP	1400	115.0	2987	12.82	2.3	
		128.1	2676	11.51	2.6	
		135.7	2523	10.87	2.8	
		155.2	2220	9.50	3.2	
		176.5	1954	8.36	3.6	



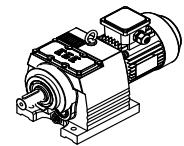
Motor Gücü Motor Power kW / HP	Motor Devri Motor Speeds d/d (rpm)	Çıkış Devri Output Speeds d/d (rpm)	Çıkış Momenti Output Torque Nm	Çevrim Oranı Ratio i	Servis Faktörü Service Factors fs	Redüktör Tipi Type
37kW 50HP	1400	205.6	1675	7.17	4.2	MRA772/225S MRF772/225S
		229.0	1506	6.44	4.6	
	1400	124.7	2749	11.83	1.5	MRA672/225S MRF672/225S
		140.6	2443	10.49	1.6	
		157.6	2180	9.36	1.8	
		163.5	2093	9.02	1.9	
		188.7	1819	7.82	2.2	
		217.0	1581	6.80	2.5	
		260.5	1319	5.66	3.0	
		293.9	1171	5.02	3.4	
		329.6	1046	4.48	3.8	
		341.6	1007	4.32	2.5	
		393.9	875	3.74	2.6	
		446.1	774	3.25	2.7	
45kW 60HP	1400	23.8	17514	61.03	1.0	MRA973/225M MRF973/225M
		26.8	15601	54.14	1.1	
		30.0	13850	48.27	1.2	
		34.7	11825	41.79	1.4	
		39.4	10597	36.84	1.6	
		44.4	9229	32.68	1.8	
		49.8	8219	29.14	2.1	
		56.4	7352	25.72	2.3	
		63.9	6464	22.67	2.6	
		72.1	5763	20.12	3.0	
		80.9	5117	17.93	3.3	
		31.8	12545	45.57	1.0	MRA873/225M MRF873/225M
		36.2	11314	40.06	1.1	
		42.5	9612	34.12	1.2	
		48.3	8336	30.00	1.4	
		53.6	7524	27.06	1.6	
		61.5	6610	23.58	1.8	
		72.4	5578	20.04	2.2	
		82.3	4937	17.62	2.4	
		91.2	4427	15.90	2.7	
		104.7	3864	13.85	3.1	
		110.3	3651	13.14	3.3	
		126.6	3195	11.45	3.8	
	1400	145.5	2841	9.97	4.2	MRA872/225M MRF872/225M
		165.5	2496	8.76	4.8	
		194.4	2119	7.46	5.7	



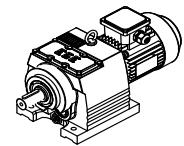
Motor Gücü Motor Power kW / HP	Motor Devri Motor Speeds d/d (rpm)	Çıkış Devri Output Speeds d/d (rpm)	Çıkış Momenti Output Torque Nm	Çevrim Oranı Ratio i	Servis Faktörü Service Factors fs	Redüktör Tipi Type
45kW 60HP	1400	221.0	1868	6.56	6.4	MRA872/225M MRF872/225M
		245.0	1687	5.92	7.1	
		281.2	1467	5.16	8.2	
		296.5	1394	4.89	8.6	
		339.7	1213	4.27	9.9	
	1400	56.5	7305	25.68	1.0	MRA773/225M MRF773/225M
		64.9	6361	22.35	1.1	
		75.2	5501	19.29	1.3	
		84.3	4864	17.19	1.4	
	1400	100.9	4116	14.37	1.7	MRA772/225M MRF772/225M
		113.1	3696	12.82	1.8	
		126.0	3312	11.51	2.0	
		133.4	3122	10.87	2.1	
		152.6	2747	9.50	2.4	
		173.5	2417	8.36	2.6	
		202.2	2074	7.17	3.0	
		225.1	1864	6.44	3.3	
		238.6	1751	6.08	3.5	
55kW 70HP	1400	122.6	3401	11.83	1.1	MRA672/225M MRF672/225M
		138.2	3023	10.49	1.2	
		155.0	2697	9.36	1.3	
		160.7	2590	9.02	1.3	
		185.5	2251	7.82	1.5	
		213.3	1957	6.80	1.6	
		256.1	1632	5.66	2.3	
		288.9	1448	5.02	2.6	
		324.0	1294	4.48	2.7	
		335.8	1246	4.32	2.7	
		387.2	1084	3.74	3.0	
		446.1	941	3.25	3.4	
		26.8	19069	54.14	0.9	MRA973/250M MRF973/250M
		30.0	16929	48.27	1.0	
		34.7	14452	41.79	1.2	
		39.4	12952	36.84	1.3	
		44.4	11281	32.68	1.5	
		49.8	10046	29.14	1.7	
		56.4	8986	25.72	1.9	
		63.9	7901	22.67	2.2	
		72.1	7043	20.12	2.4	
		80.9	6255	17.93	2.7	



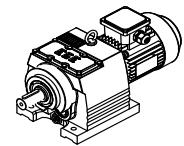
Motor Gücü Motor Power kW / HP	Motor Devri Motor Speeds d/d (rpm)	Çıkış Devri Output Speeds d/d (rpm)	Çıkış Momenti Output Torque Nm	Çevrim Oranı Ratio i	Servis Faktörü Service Factors fs	Redüktör Tipi Type
55kW 70HP	1400	90.4	5632	16.04	3.0	MRA972/250M MRF972/250M
		101.9	5006	14.23	3.4	
	1400	42.5	11747	34.12	1.0	MRA873/250M MRF873/250M
		48.3	10189	30.00	1.2	
		53.6	9195	27.06	1.3	
		61.5	8079	23.58	1.5	
		72.4	6817	20.04	1.8	
		82.3	6034	17.62	2.0	
		91.2	5411	15.90	2.2	
		104.7	4723	13.85	2.5	
		110.3	4463	13.14	2.7	
		126.6	3905	11.45	3.1	
1400	1400	145.5	3472	9.97	3.5	MRA872/250M MRF872/250M
		165.5	3051	8.76	3.9	
		194.4	2590	7.46	4.6	
		221.0	2283	6.56	5.3	
		245.0	2061	5.92	5.8	
		281.2	1793	5.16	6.7	
		296.5	1703	4.89	7.0	
		339.7	1483	4.27	8.1	
	1400	64.9	7776	22.35	0.9	MRA773/250M MRF773/250M
		75.2	6724	19.29	1.0	
		84.3	5945	17.19	1.2	
1400	1400	100.9	5031	14.37	1.4	MRA772/250M MRF772/250M
		113.1	4517	12.82	1.5	
		126.0	4047	11.51	1.7	
		133.4	3816	10.87	1.8	
		152.6	3357	9.50	2.1	
		173.5	2954	8.36	2.4	
		202.2	2534	7.17	2.8	
		225.1	2278	6.44	3.1	
		238.6	2140	6.08	3.3	
	1400	39.4	17662	36.84	1.0	MRA973/280S MRF973/280S
		44.4	15384	32.68	1.1	
		49.8	13700	29.14	1.2	
		56.4	12254	25.72	1.4	
		63.9	10774	22.67	1.6	
		72.1	9605	20.12	1.8	
		80.9	8530	17.93	2.0	



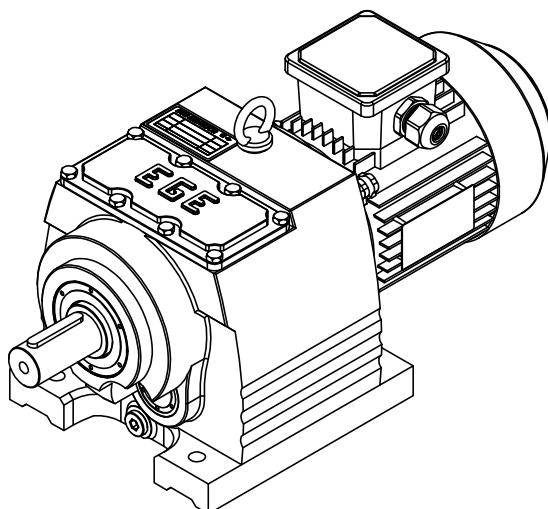
Motor Gücü Motor Power kW / HP	Motor Devri Motor Speeds d/d (rpm)	Çıkış Devri Output Speeds d/d (rpm)	Çıkış Momenti Output Torque Nm	Çevrim Oranı Ratio i	Servis Faktörü Service Factors fs	Redüktör Tipi Type
75kW 97HP	1400	90.4	7681	16.04	2.2	MRA972/280S MRF972/280S
		101.9	6827	14.23	2.5	
		114.1	6126	12.71	2.8	
		127.0	5496	11.42	3.1	
		146.9	4752	9.87	3.6	
		165.6	4226	8.75	4.0	
		185.3	3783	7.82	4.5	
		206.4	3399	7.02	5.0	
	1400	53.6	12539	27.06	1.0	MRA873/280S MRF873/280S
		61.5	11017	23.58	1.1	
		72.4	9297	20.04	1.3	
		82.3	8228	17.62	1.5	
		91.2	7379	15.90	1.6	
		104.7	6440	13.85	1.9	
		110.3	6085	13.14	2.0	
		126.6	5325	11.45	2.3	
90 kW 117HP	1400	145.5	4735	9.97	2.5	MRA872/280S MRF872/280S
		165.5	4160	8.76	2.9	
		194.4	3531	7.46	3.4	
		221.0	3114	6.56	3.9	
		245.0	2811	5.92	4.3	
		281.2	2445	5.16	4.9	
		296.5	2322	4.89	5.2	
		339.7	2022	4.27	5.9	
	1400	49.8	16440	29.14	1.0	MRA973/280M MRF973/280M
		56.4	14704	25.72	1.2	
		63.9	12930	22.67	1.3	
		72.1	11527	20.12	1.5	
		80.9	10237	17.93	1.7	
	1400	90.4	9217	16.04	1.7	MRA972/280M MRF972/280M
		101.9	8194	14.23	2.0	
		114.1	7352	12.71	2.1	
		127.0	6596	11.42	2.3	
		146.9	5704	9.87	2.5	
		165.6	5071	8.75	2.5	
		185.3	4541	7.82	2.5	
		206.4	4079	7.02	2.5	
	1400	72.4	11157	20.04	1.1	MRA873/280M MRF873/280M
		82.3	9874	17.62	1.2	
		91.2	8854	15.90	1.4	



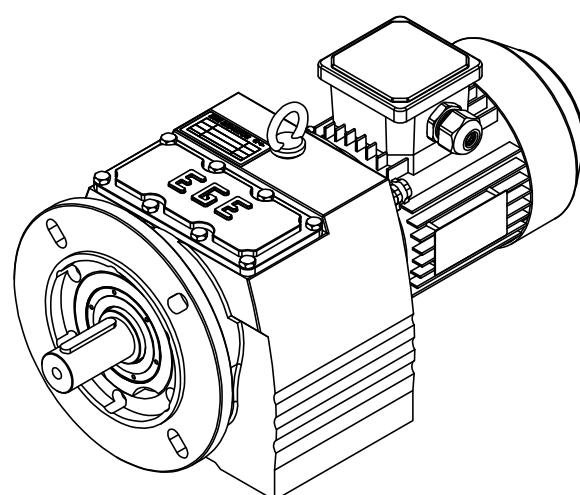
Motor Gücü Motor Power kW / HP	Motor Devri Motor Speeds d/d (rpm)	Çıkış Devri Output Speeds d/d (rpm)	Çıkış Momenti Output Torque Nm	Çevrim Oranı Ratio i	Servis Faktörü Service Factors fs	Redüktör Tipi Type
90 kW 117HP	1400	104.7	7727	13.85	1.6	MRA873/280M MRF873/280M
		110.3	7302	13.14	1.6	
		126.6	6391	11.45	1.9	
	1400	145.5	5682	9.97	2.1	MRA872/280M MRF872/280M
		165.5	4991	8.76	2.4	
		194.4	4237	7.46	2.8	
		221.0	3736	6.56	3.2	
		245.0	3373	5.92	3.6	
		281.2	2934	5.16	4.1	
		296.5	2787	4.89	4.3	
		339.7	2427	4.27	4.9	
110kW 150HP	1400	63.9	15804	22.67	1.1	MRA973/315S MRF973/315S
		72.1	14088	20.12	1.2	
		80.9	12512	17.93	1.4	
	1400	90.4	11265	16.04	1.5	MRA972/315S MRF972/315S
		101.9	10014	14.23	1.7	
		114.1	8987	12.71	1.8	
		127.0	8062	11.42	1.9	
		146.9	6972	9.87	2.2	
		165.6	6198	8.75	2.3	
		185.3	5550	7.82	2.3	
		206.4	4986	7.02	2.4	
132kW 180HP	1400	72.1	16907	20.12	1.0	MRA973/315M MRF973/315M
		80.9	15015	17.93	1.1	
	1400	90.4	13519	16.04	1.3	MRA972/315M MRF972/315M
		101.9	12018	14.23	1.4	
		114.1	10784	12.71	1.6	
		127.0	9675	11.42	1.8	
		146.9	8366	9.87	1.6	
		165.6	7438	8.75	1.6	
		185.3	6661	7.82	1.7	
		206.4	5983	7.02	1.7	
"160kW 218HP"	1400	101.9	14567	14.23	1.2	MRA972/315M MRF972/315M
		114.1	13072	12.71	1.3	
		127.0	11728	11.42	1.4	
		146.9	10142	9.87	1.2	
		165.6	9017	8.75	1.1	
		185.3	8073	7.82	1.2	
		206.4	7252	7.02	1.4	



MRA...



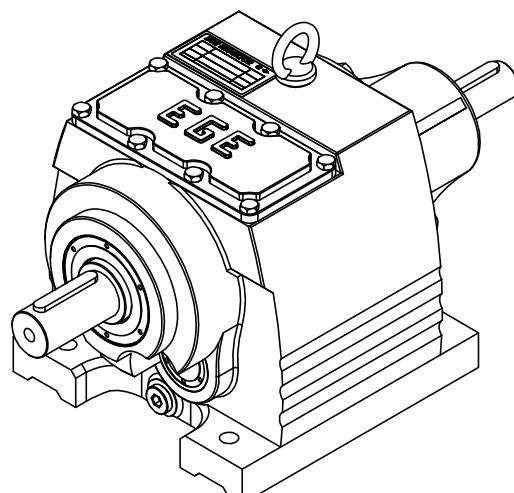
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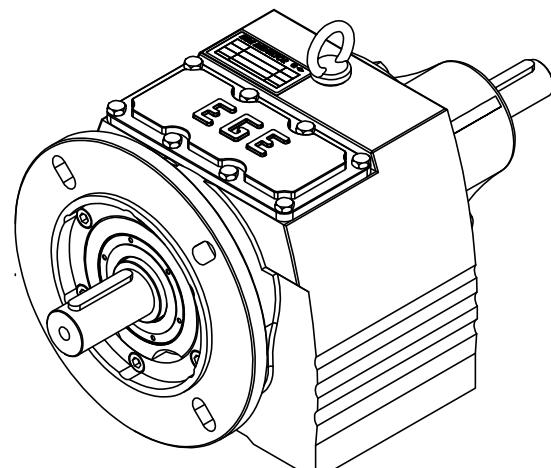
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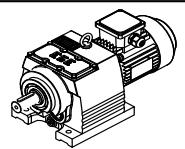
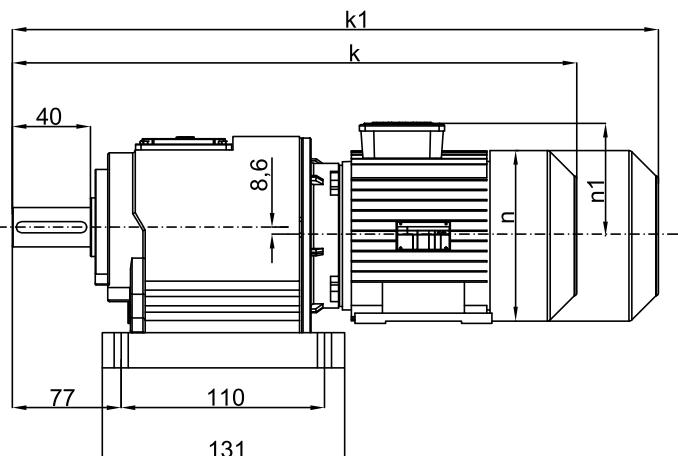
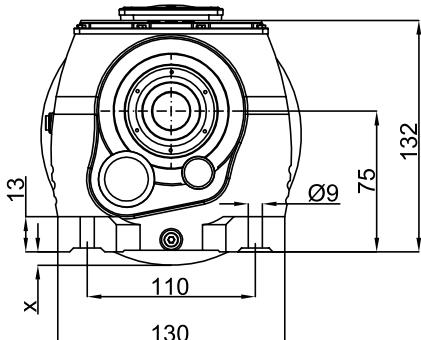
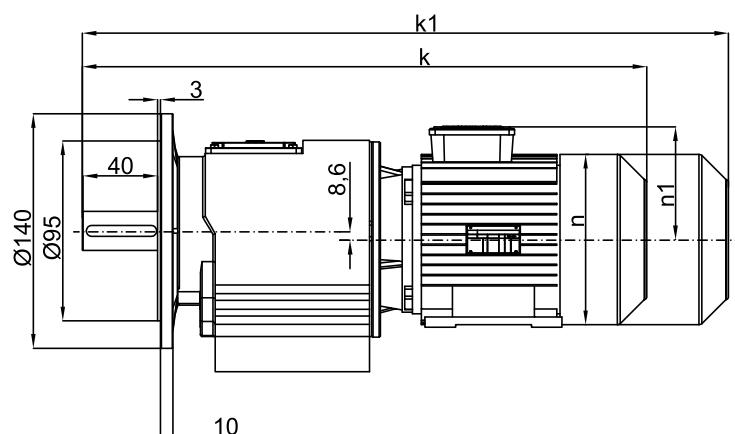
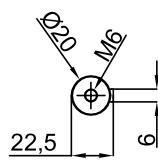
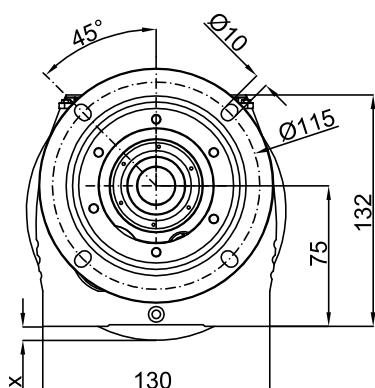
Dimension Pages

MTA...



MTF...

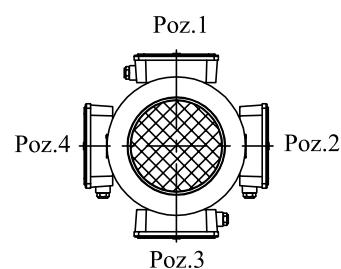



MRA 002
MRA 003

MRF 002
MRF 003


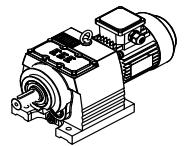
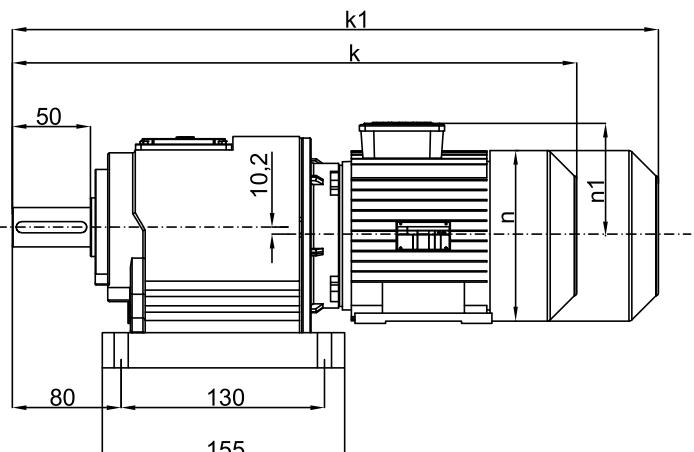
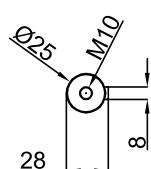
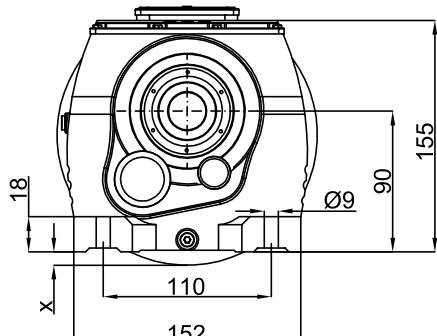
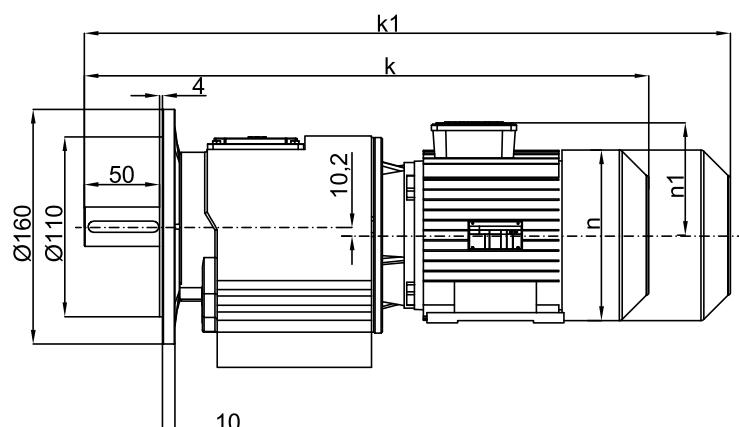
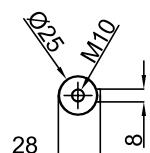
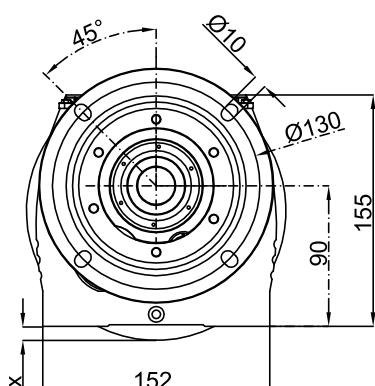
	Motor Büyüklüğü / Motor Size				
	63	71	80	90S	90L
k	368	387	415	443	483
k1	421	507	535	568	608
n	121	138	156	176	176
n1	97	111	118	126	126
x	-	5	14	24	24

**Klemens Pozisyonları
Terminal Box**

63-71-80-90 Tip



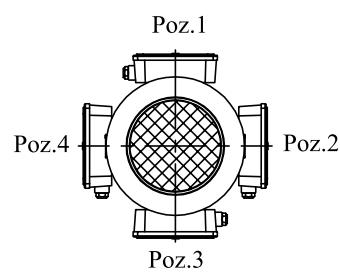
* k1 Ölçüsü frenli redüktörler aittir. / Dimension "k1" is for motors with brake.


MRA 102
MRA 103

MRF 102
MRF 103


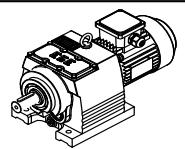
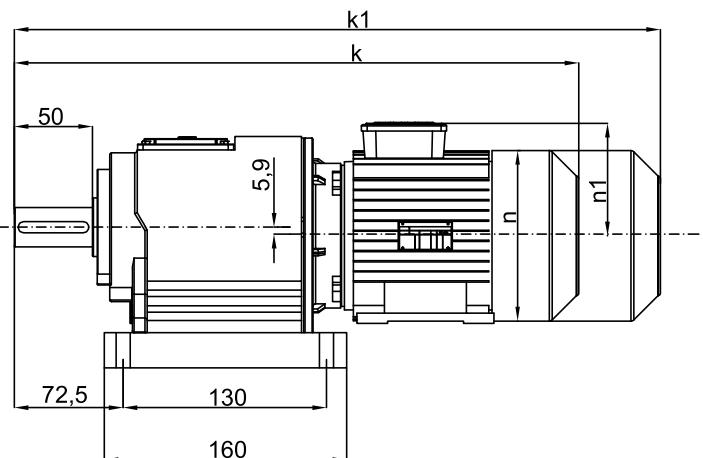
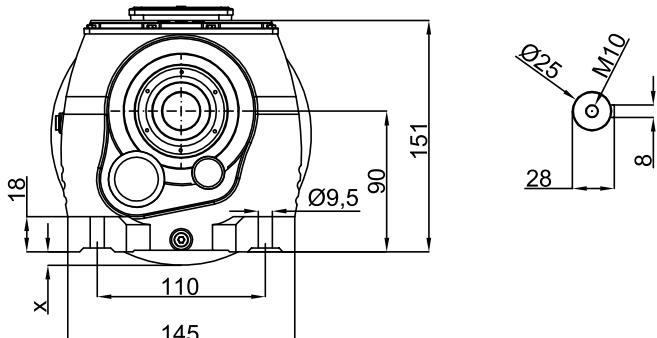
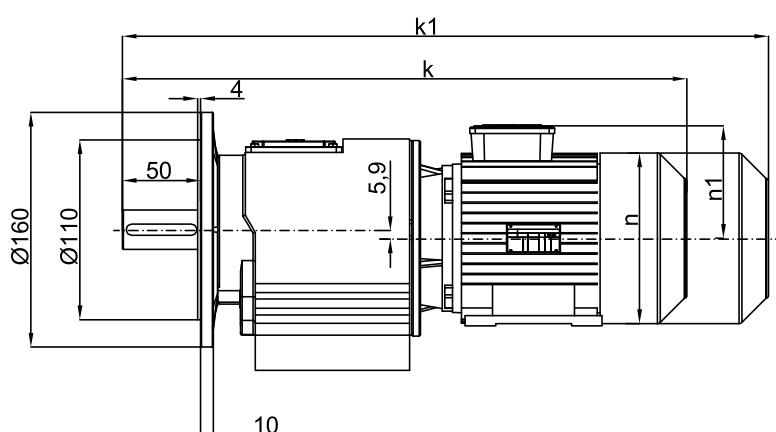
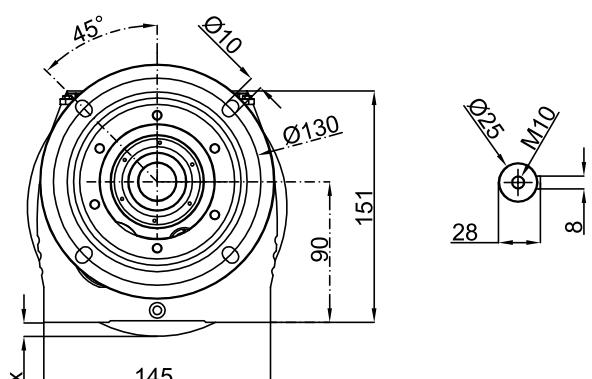
	Motor Büyüklüğü / Motor Size				
	63	71	80	90S	90L
k	394	413	442	471	596
k1	447	533	562	596	633
n	121	138	156	176	176
n1	97	111	118	126	126
x	-	-	-	9	9

**Klemens Pozisyonları
Terminal Box**

63-71-80-90 Tip



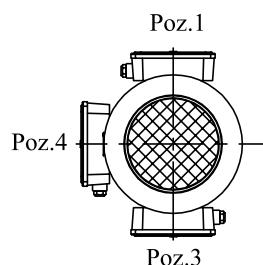
* k1 Ölçüsü frenli redüktörler aittir. / Dimension "k1" is for motors with brake.


MRA 172
MRA 173

MRF 172
MRF 173

Motor Büyüklüğü / Motor Size

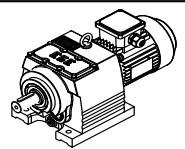
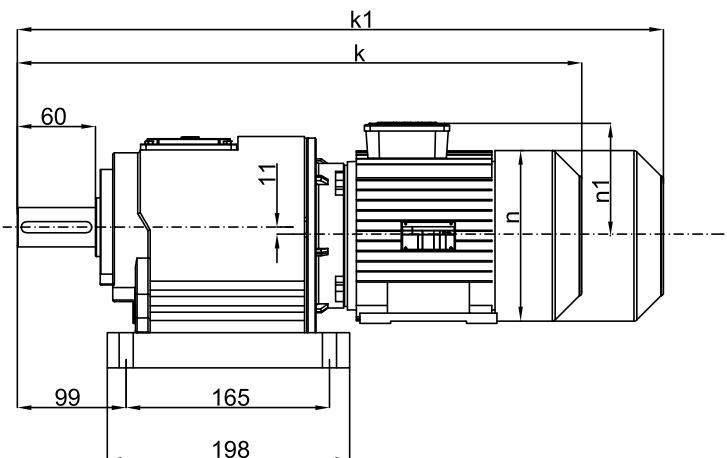
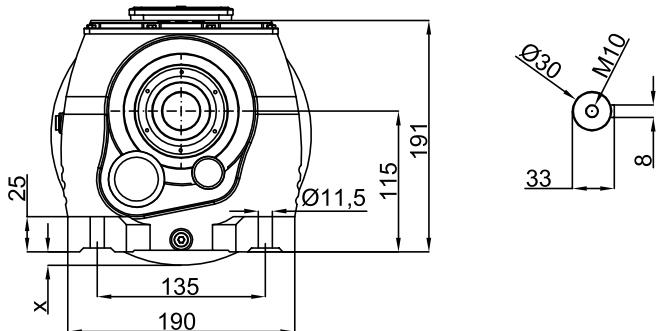
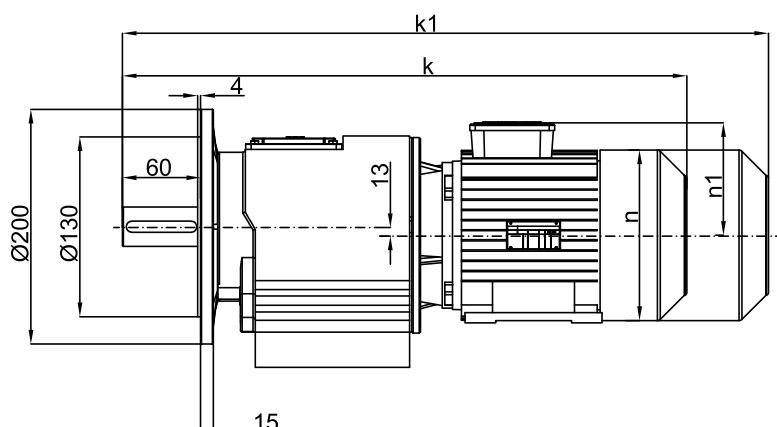
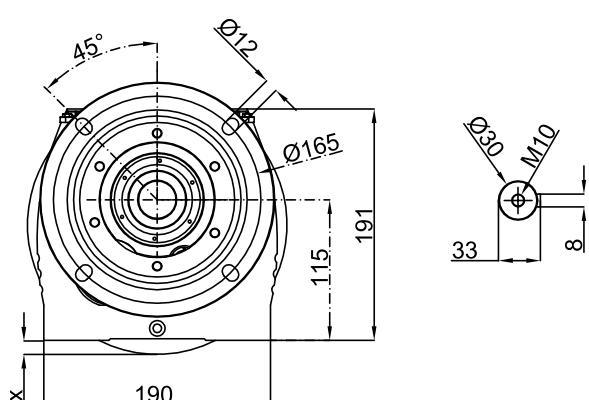
	63	71	80	90S	90L	100L	112M
k	395	414	442	470	510	536	694
k1	448	534	562	595	635	671	694
n	121	138	156	176	176	194	218
n1	97	111	118	126	126	135	146
x	-	-	-	6	6	16	28

Klemens Pozisyonları
Terminal Box

63-71-80-90-100-112 Tip



* k1 Ölçüsü frenli redüktörler aittir. / Dimension "k1" is for motors with brake.

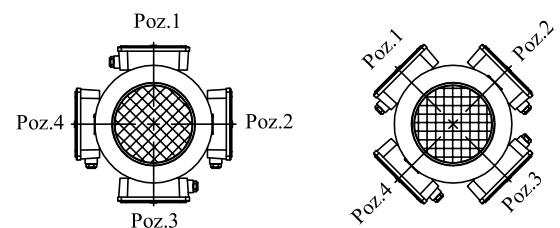

MRA202
MRA203

MRF202
MRF203

Motor Büyüklüğü / Motor Size

	63	71	80	90S	90L	100L	112M
k	442	461	489	517	542	583	606
k1	495	581	609	642	667	718	741
n	121	138	156	176	176	194	218
n1	97	111	118	126	126	135	146
x	-	-	-	-	-	-	10

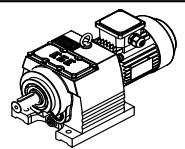
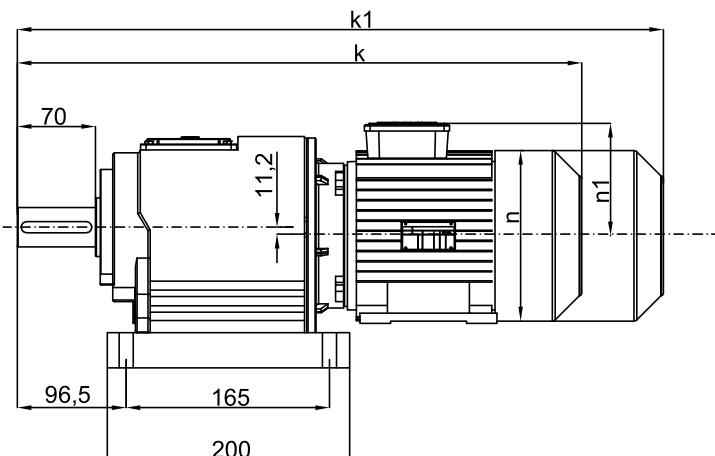
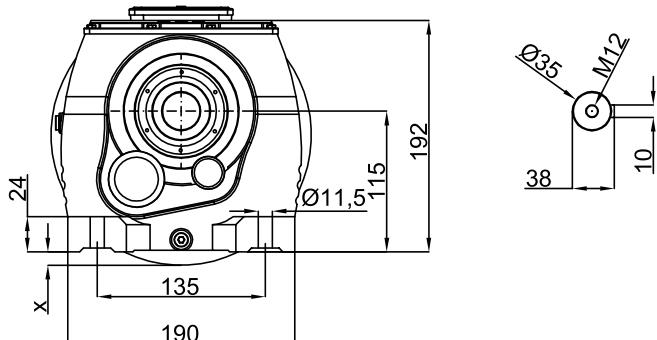
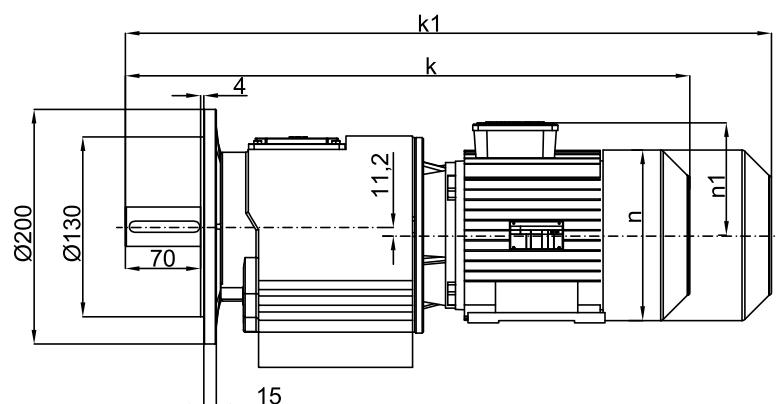
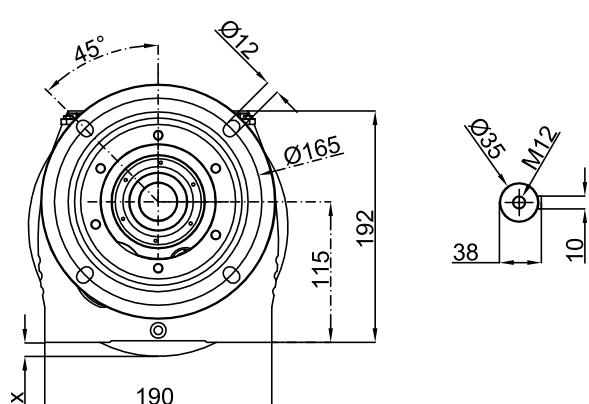
**Klemens Pozisyonları
Terminal Box**

63-80-90-100-112 Tip

71 Tip



* k1 Ölçüsü frenli redüktörler aittir. / Dimension "k1" is for motors with brake.

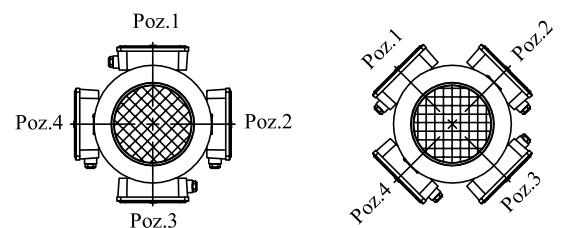

MRA272
MRA273

MRF272
MRF273


Motor Büyüklüğü / Motor Size							
	63	71	80	90S	90L	100L	112M
k	443	462	490	518	543	584	607
k1	496	582	610	643	668	719	742
n	121	138	156	176	176	194	218
n1	97	111	118	126	126	135	146
X	-	-	-	-	-	-	10

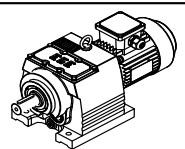
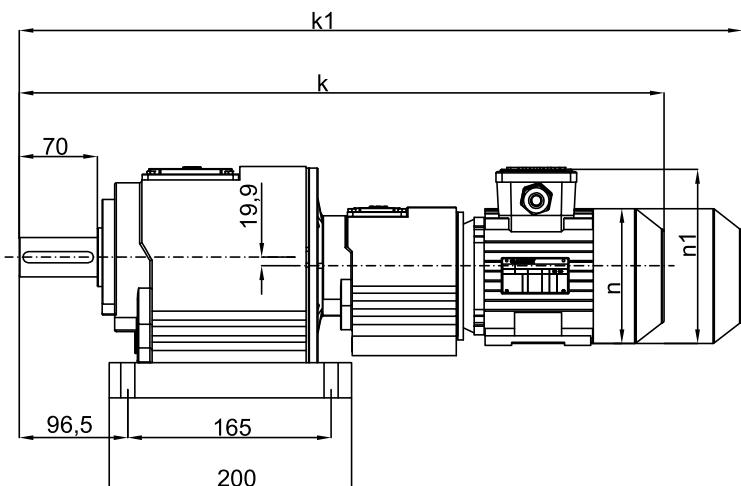
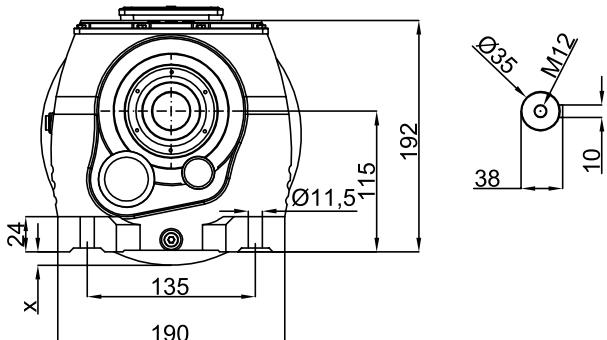
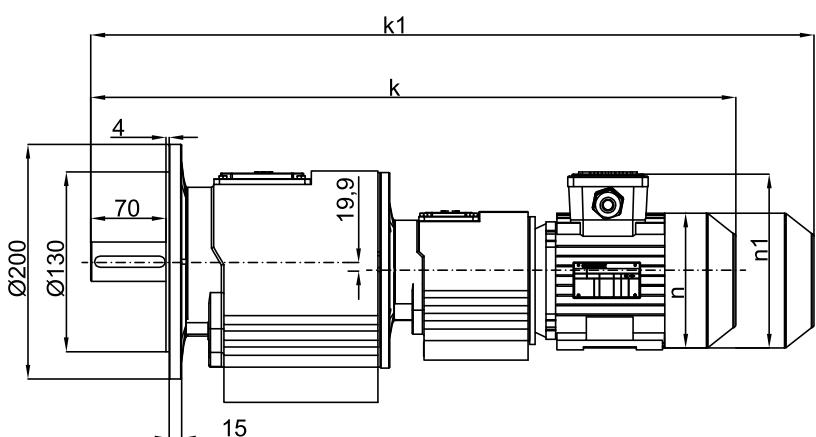
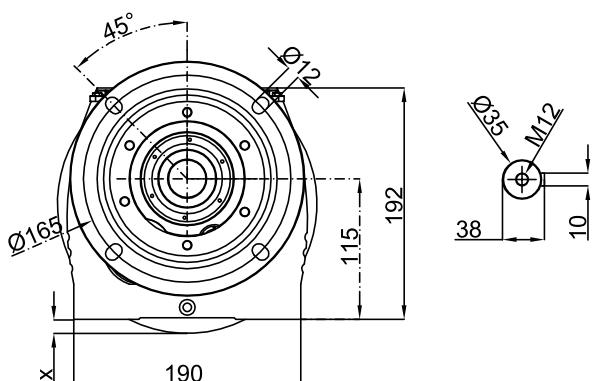
**Klemens Pozisyonları
Terminal Box**

63-80-90-100-112 Tip

71 Tip



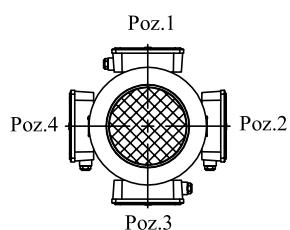
* k1 Ölçüsü frenli redüktörler aittir. / Dimension "k1" is for motors with brake.


 MRA275
 MRA276

 MRF275
 MRF276


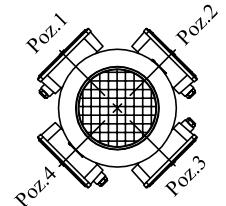
Motor Büyüklüğü / Motor Size		
	63	71
k	593	614
k1	646	734
n	121	138
n1	97	111
X	-	-

 Klemens Pozisyonları
 Terminal Box

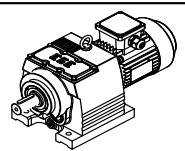
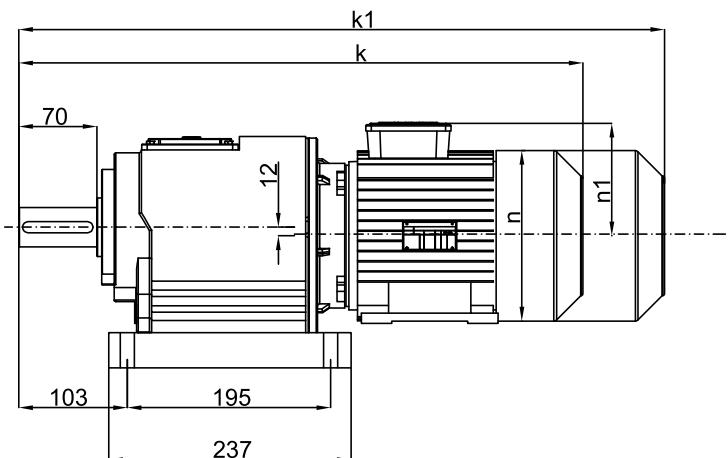
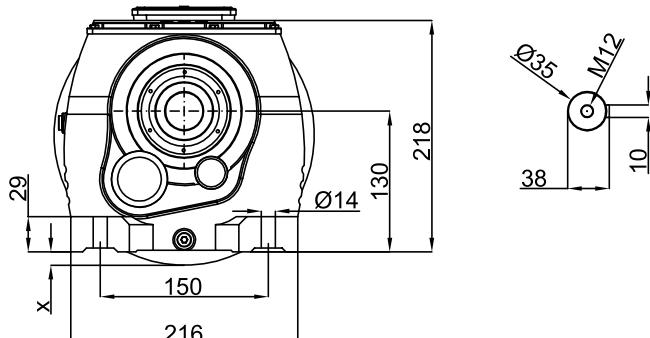
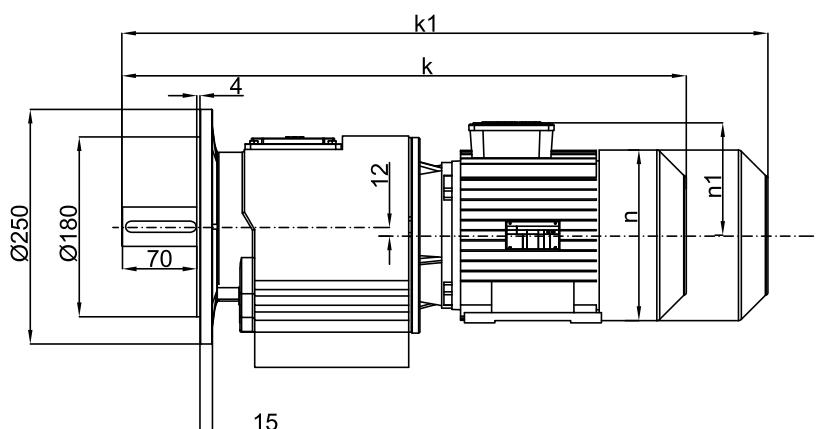
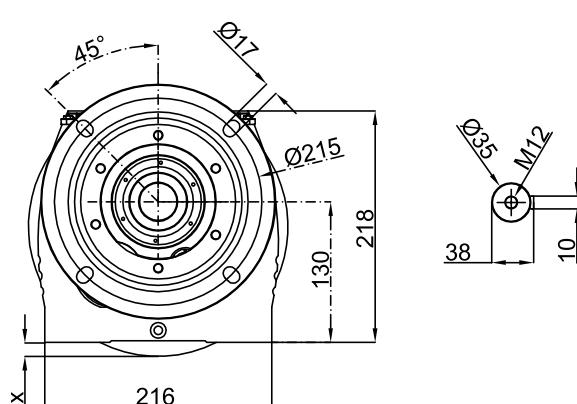
63 Tip



71 Tip



* k1 Ölçüsü frenli redüktörler aittir. / Dimension "k1" is for motors with brake.

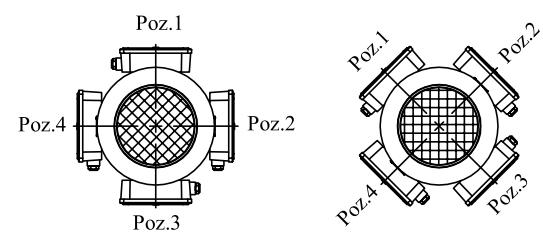

MRA282
MRA283

MRF282
MRF283

Motor Büyüklüğü / Motor Size

	71	80	90S	90L	100L	112M	132S	132M
k	479	507	537	562	602	625	679	717
k1	599	627	662	687	737	760	824	862
n	138	156	176	176	194	218	257	257
n1	111	118	126	126	135	146	168	168
x	-	-	-	-	-	-	-	14

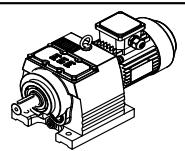
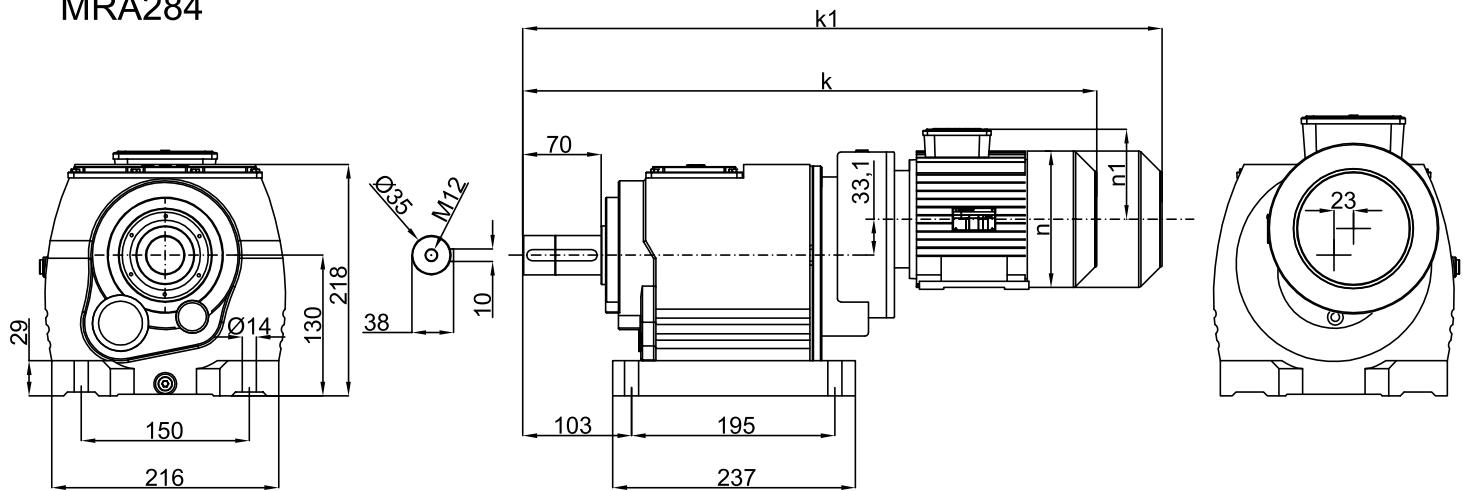
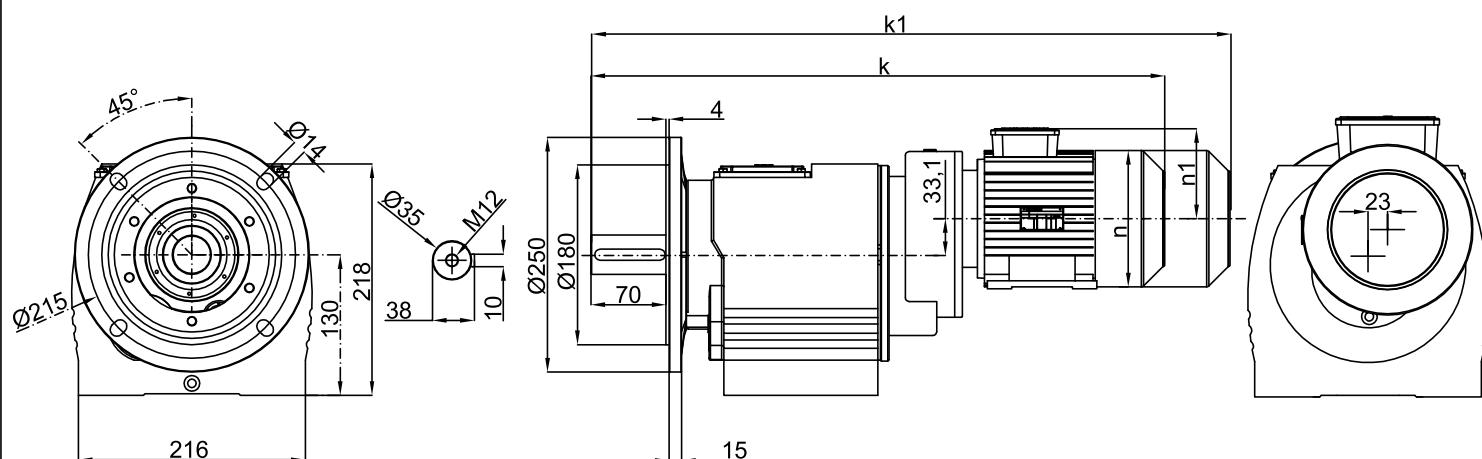
**Klemens Pozisyonları
Terminal Box**

80-90-100-112-132S-132M Tip

71 Tip



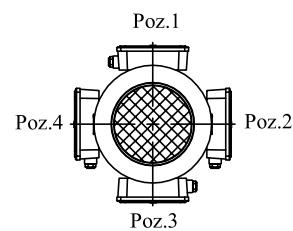
* k1 Ölçüsü frenli redüktörler aittir. / Dimension "k1" is for motors with brake.


MRA284

MRF284

Motor Büyüklüğü / Motor Size

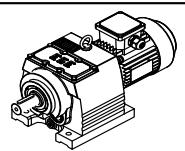
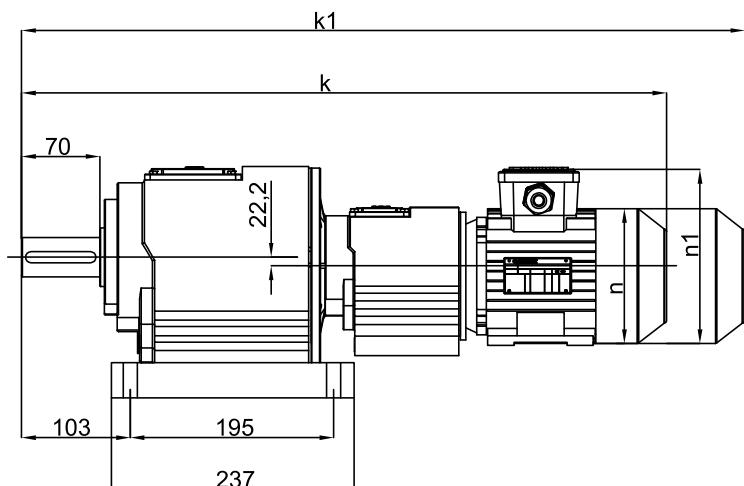
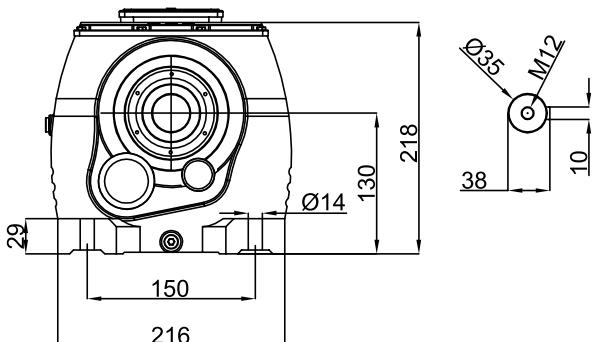
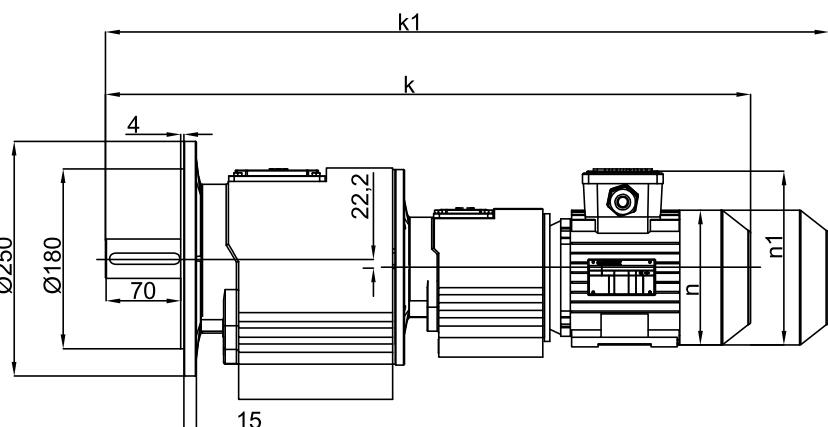
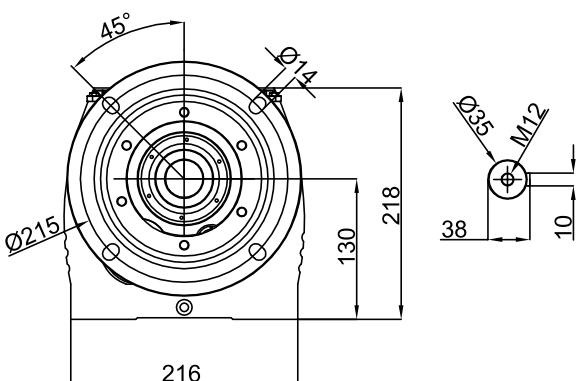
	63	71
k	540	558
k1	593	678
n	121	138
n1	97	111
x	-	-

**Klemens Pozisyonları
Terminal Box**

63 - 71 Tip



* k1 Ölçüsü frenli redüktörler aittir. / Dimension "k1" is for motors with brake.

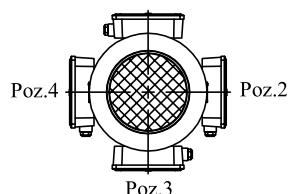

MRA285
MRA286

MRF285
MRF286

Motor Büyüklüğü / Motor Size

	63
k	641
k1	694
n	121
n1	97
x	-

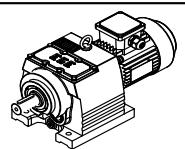
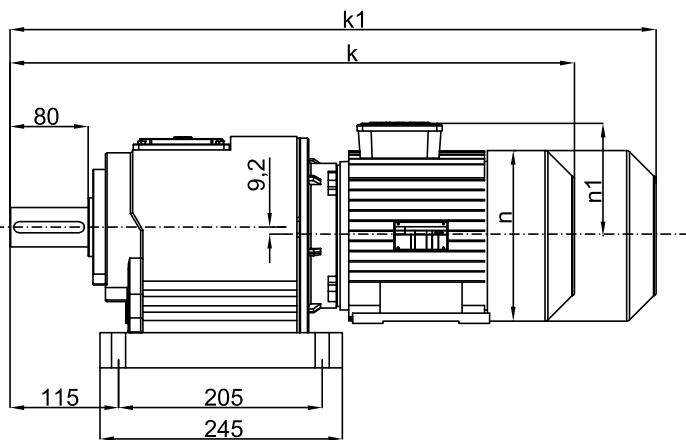
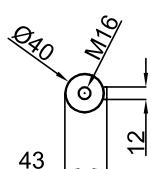
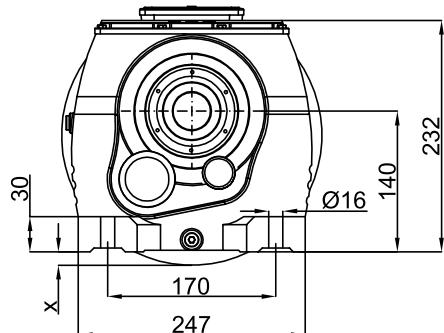
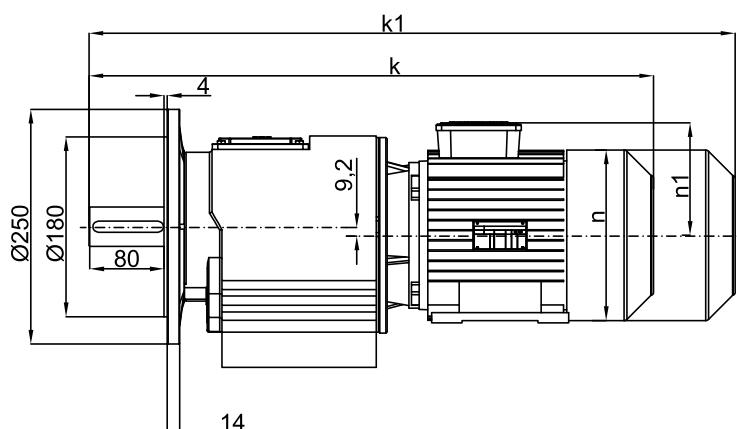
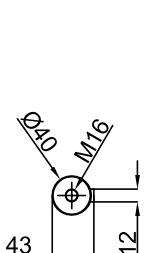
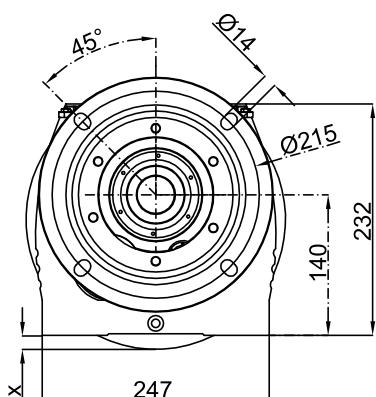
**Klemens Pozisyonları
Terminal Box**

63 Tip

Poz.1



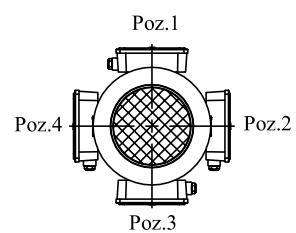
* k1 Ölçüsü frenli redüktörler aittir. / Dimension "k1" is for motors with brake.


MRA372
MRA373

MRF372
MRF373

Motor Büyüklüğü / Motor Size

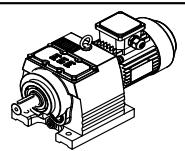
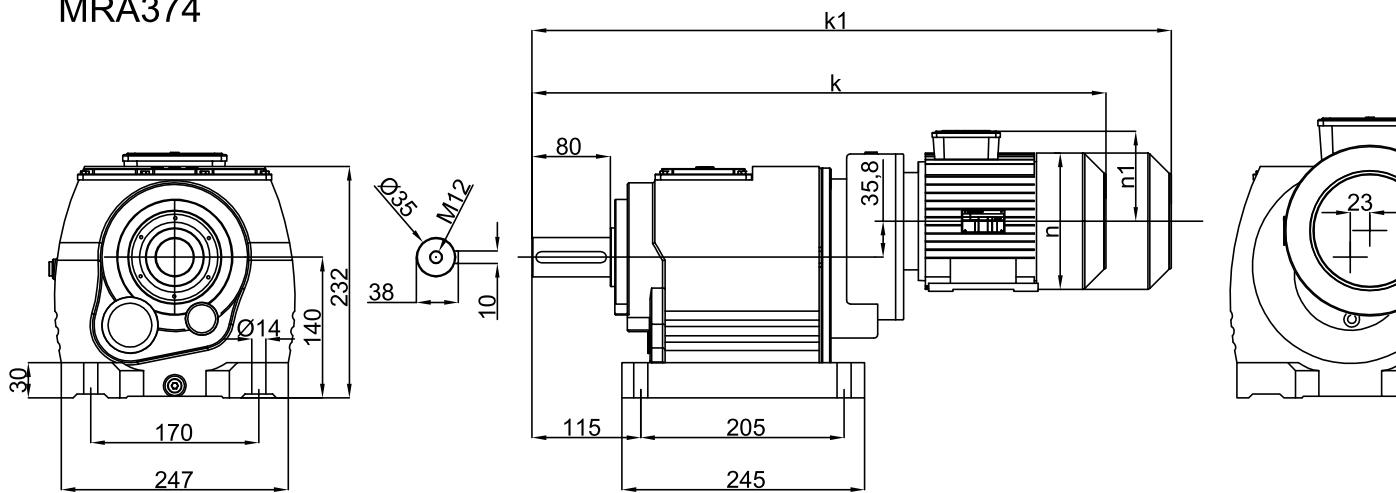
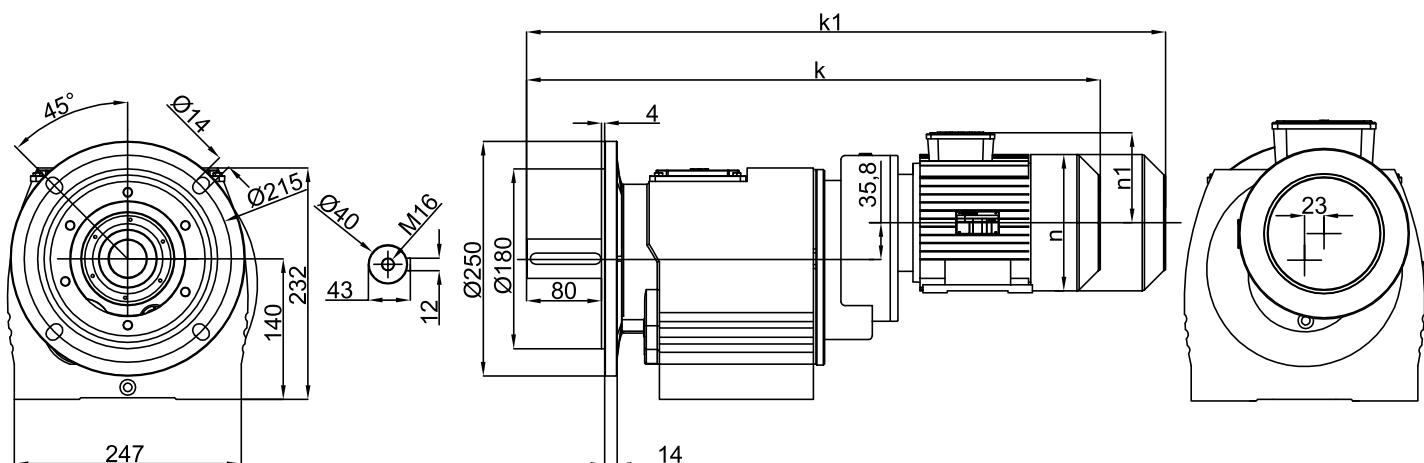
	71	80	90S	90L	100L	112M	132S	132M
k	500	528	558	583	623	646	700	738
k1	620	648	683	708	758	781	845	883
n	138	156	176	176	194	218	257	257
n1	111	118	126	126	135	146	168	168
x	-	-	-	-	-	-	2	30

**Klemens Pozisyonları
Terminal Box**

71-80-90-100-112-132S-132M Tip



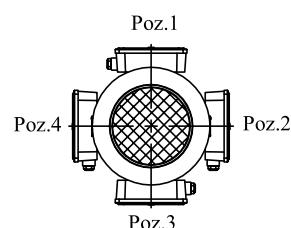
* k1 Ölçüsü frenli redüktörler aittir. / Dimension "k1" is for motors with brake.


MRA374

MRF374

Motor Büyüklüğü / Motor Size

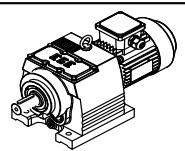
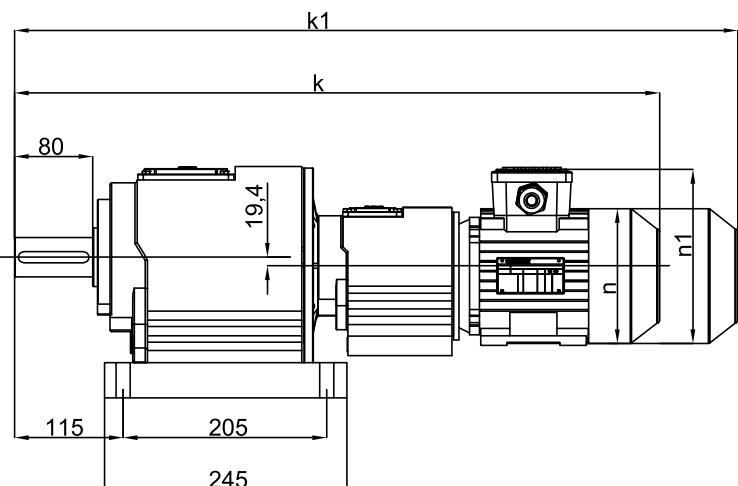
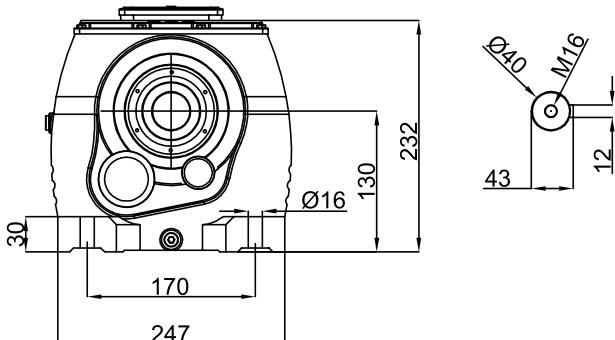
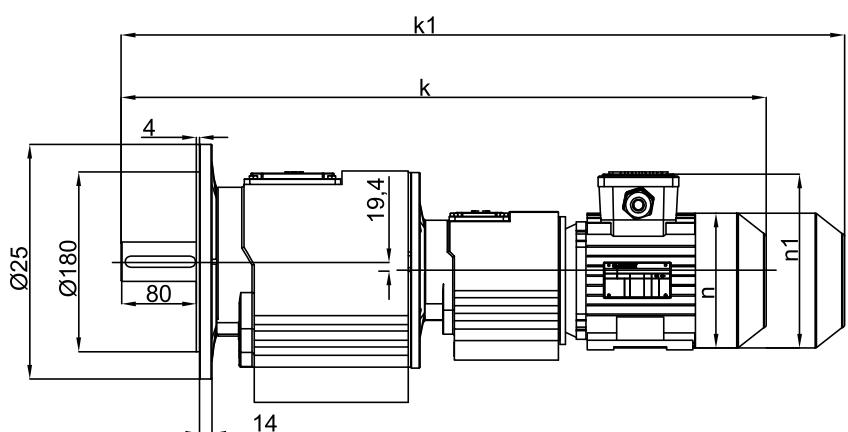
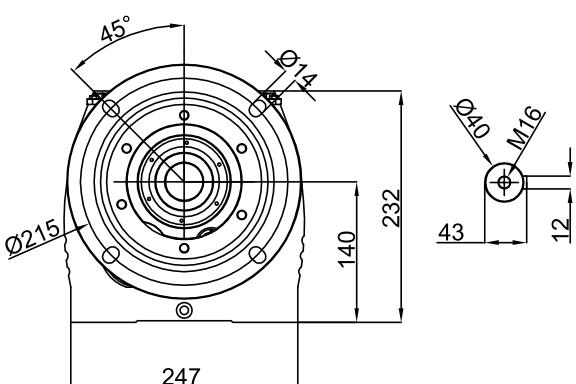
	63	71	80
k	561	579	608
k1	614	699	728
n	121	138	156
n1	97	111	118
x	-	-	-

**Klemens Pozisyonları
Terminal Box**

63 - 71 - 80 Tip



* k1 Ölçüsü frenli redüktörler aittir. / Dimension "k1" is for motors with brake.

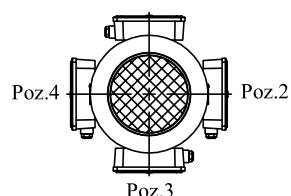

MRA375
MRA376

MRF375
MRF376

Motor Büyüklüğü / Motor Size

	63
k	662
k1	715
n	121
n1	97
x	-

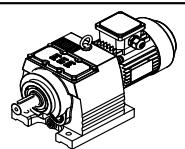
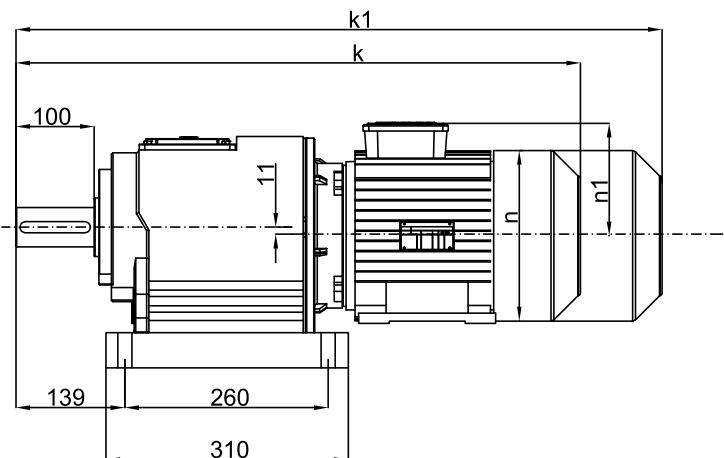
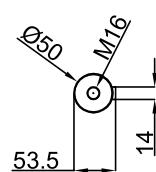
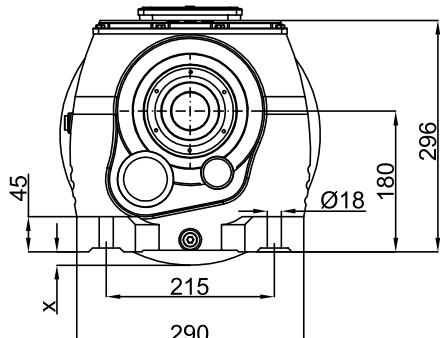
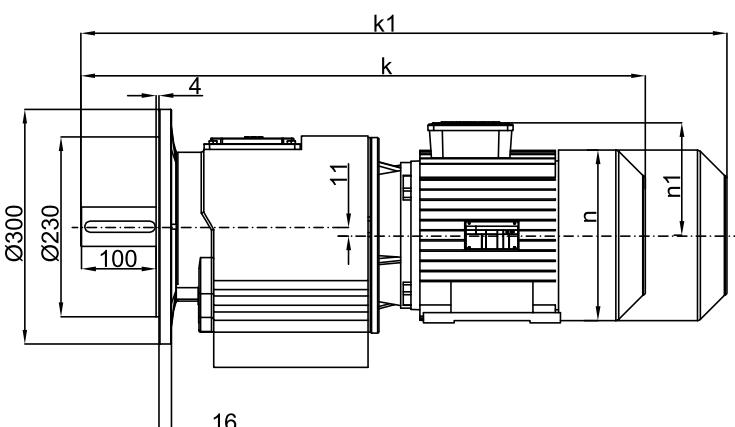
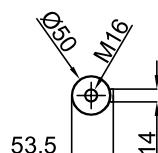
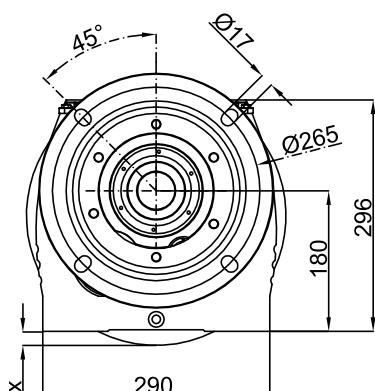
**Klemens Pozisyonları
Terminal Box**

63 Tip

Poz.1

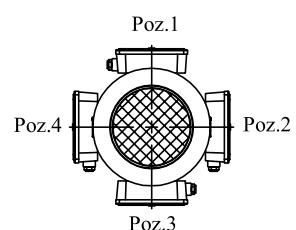


* k1 Ölçüsü frenli redüktörler aittir. / Dimension "k1" is for motors with brake.

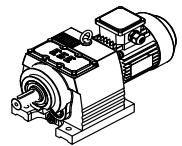
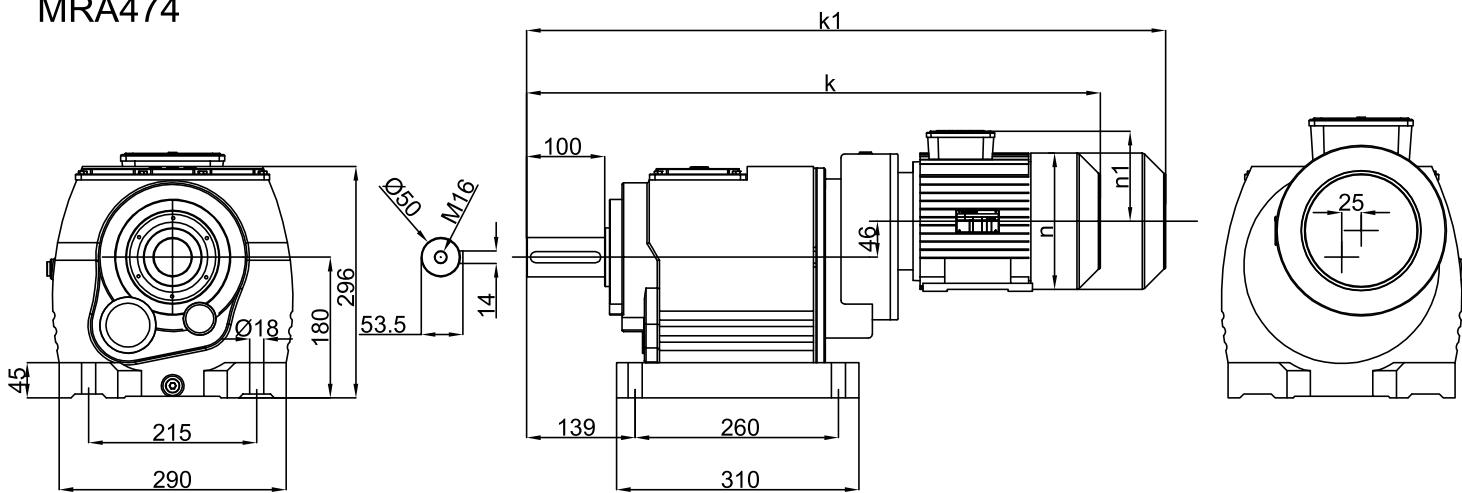
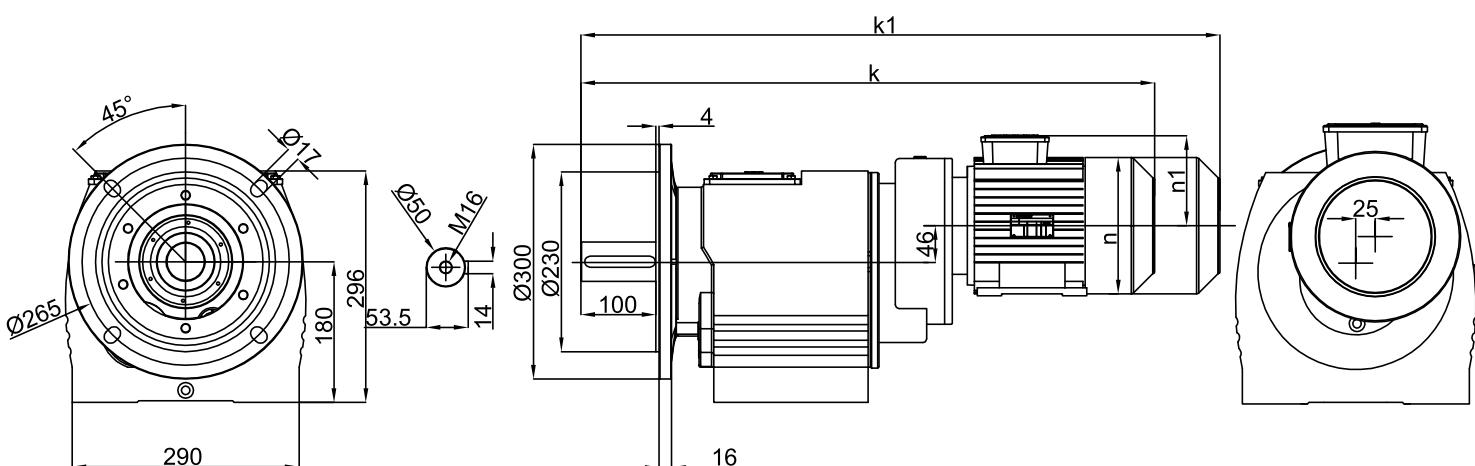

MRA472
MRA473

MRF472
MRF473

Motor Büyüklüğü / Motor Size

	80	90S	90L	100L	112M	132S	132M	160M	160L	180M	180L
k	602	630	645	685	715	795	801	856	892	959	965
k1	701	736	751	796	819	899	905	952	998	1123	113
n	156	176	176	194	218	257	257	310	310	348	348
n1	118	126	126	135	146	168	168	225	225	241	241
x	-	-	-	-	-	-	-	-	-	5	5

Klemens Pozisyonları
Terminal Box

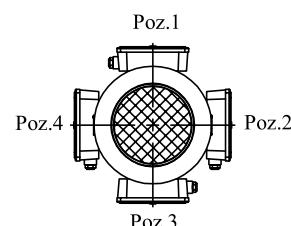
 80-90-100-112-132S
 132M-160M-160L-180M-180L
 Tip


* k1 Ölçüsü frenli redüktörler aittir. / Dimension "k1" is for motors with brake.

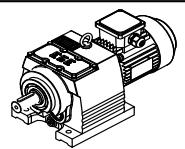
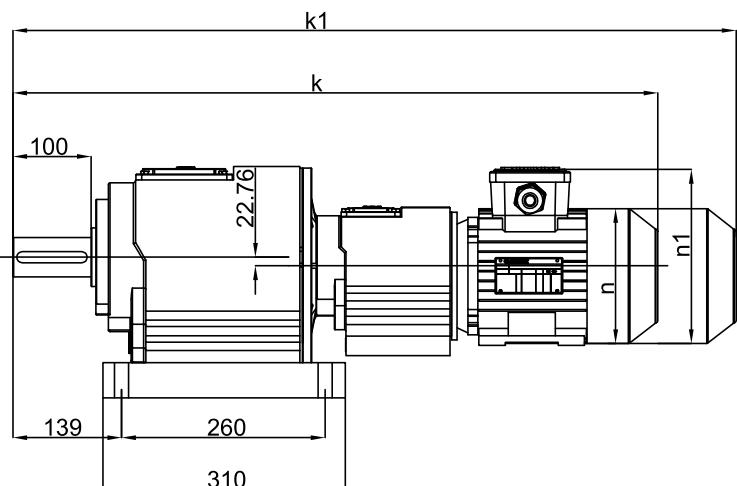
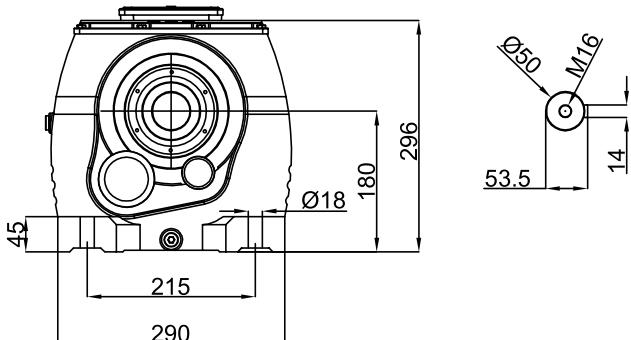
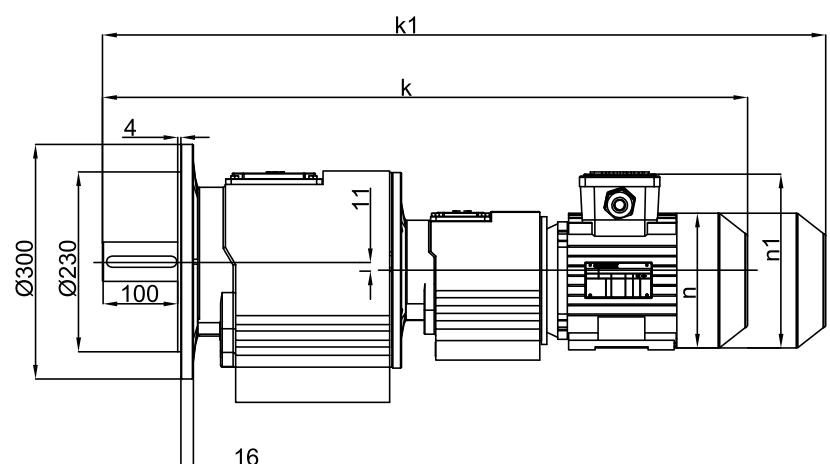
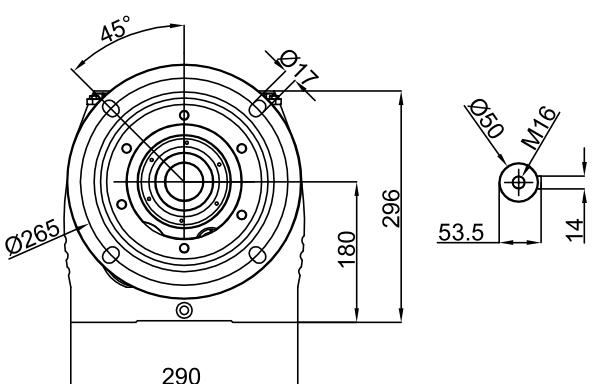

MRA474

MRF474


Motor Büyüklüğü / Motor Size		
	71	80
k	662	689
k1	781	809
n	138	156
n1	111	118
x	-	-

 Klemens Pozisyonları
 Terminal Box

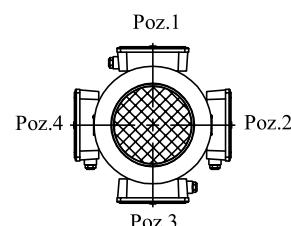
 71-80
 Tip


* k1 Ölçüsü frenli redüktörler aittir. / Dimension "k1" is for motors with brake.

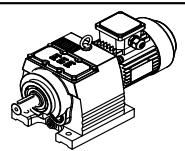
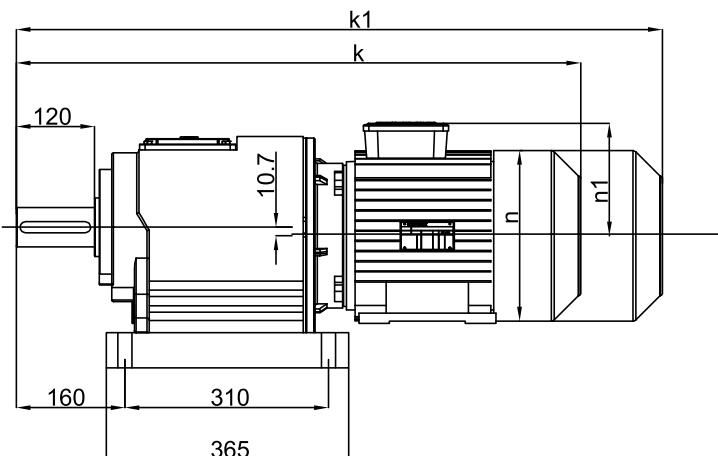
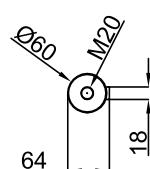
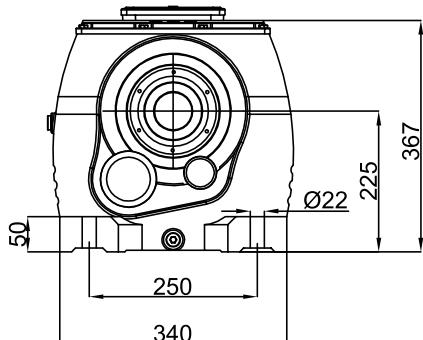
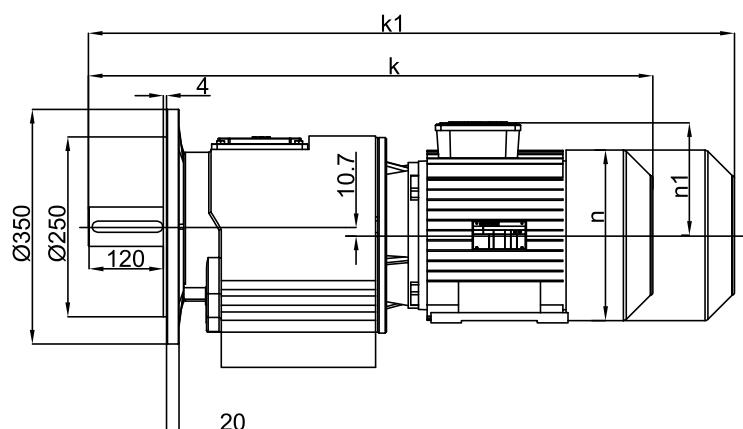
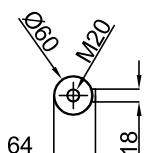
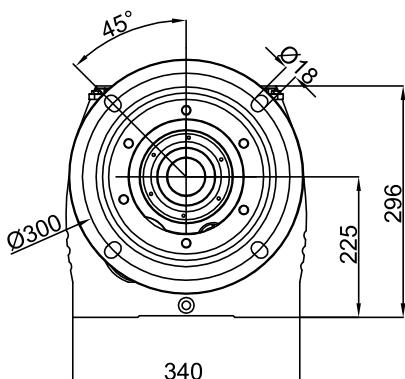

MRA475
MRA476

MRF475
MRF476

Motor Büyüklüğü / Motor Size

	63	71
k	772	791
k1	825	911
n	121	138
n1	97	111
x	-	-

**Klemens Pozisyonları
Terminal Box**

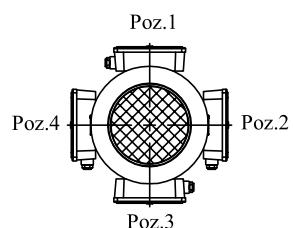
 63-71
Tip


* k1 Ölçüsü frenli redüktörler aittir. / Dimension "k1" is for motors with brake.

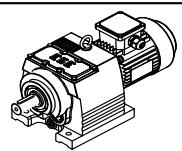
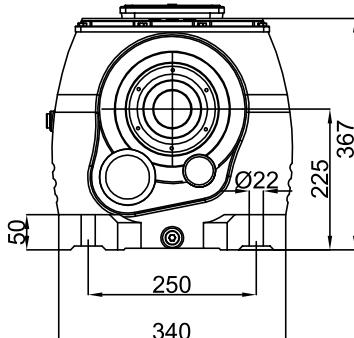

MRA572
MRA573

MRF572
MRF573

Motor Büyüklüğü / Motor Size

	100L	112M	132S	132M	160M	160L	180M	180L	200
k	745	768	822	860	935	979	995	1033	1072
k1	880	903	967	1005	1105	1149	1165	1203	1272
n	194	218	257	257	310	310	348	348	390
n1	135	146	168	168	225	225	241	241	275
x	-	-	-	-	-	-	-	-	-

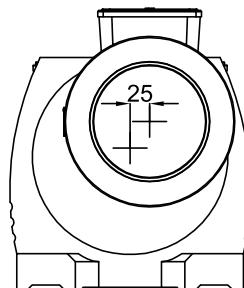
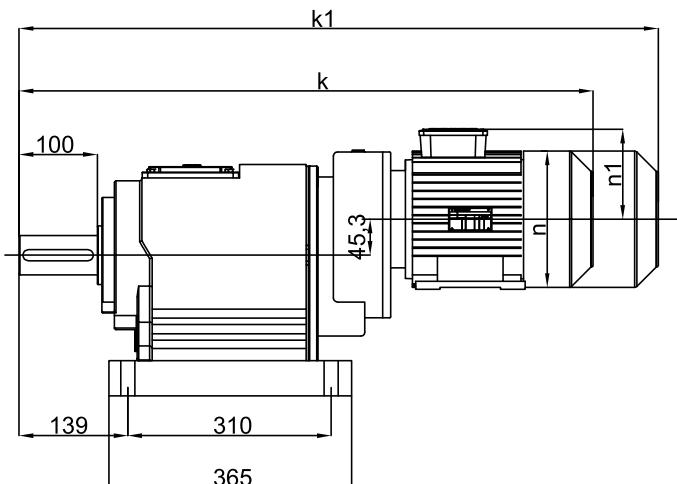
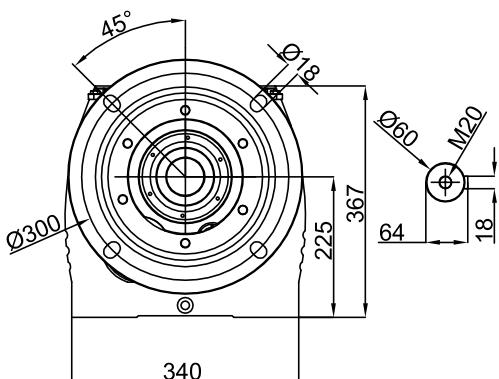
Klemens Pozisyonları
Terminal Box

 100-112-132S-132M-160M-160L
 180M-180L-200L
 Tip


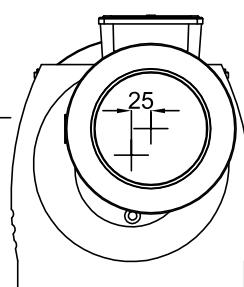
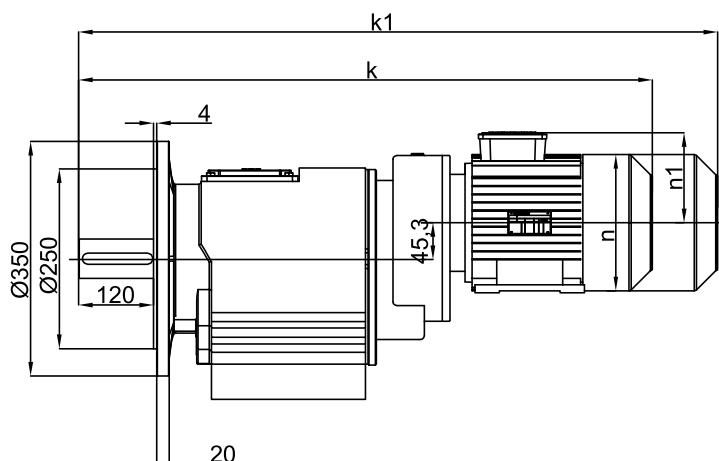
* k1 Ölçüsü frenli redüktörler aittir. / Dimension "k1" is for motors with brake.


MRA574


$\varnothing 60$
M20
64
18


MRF574


$\varnothing 60$
M20
64
18
45°
 $\varnothing 300$
340

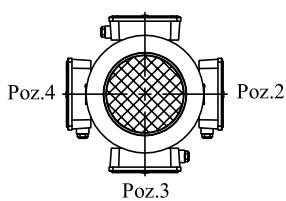

Motor Büyüklüğü / Motor Size

	71	80	90S	90L
k	723	751	558	583
k1	843	871	905	930
n	138	156	176	176
n1	111	118	126	126
x	-	-	-	-

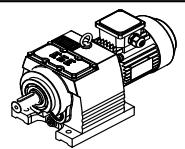
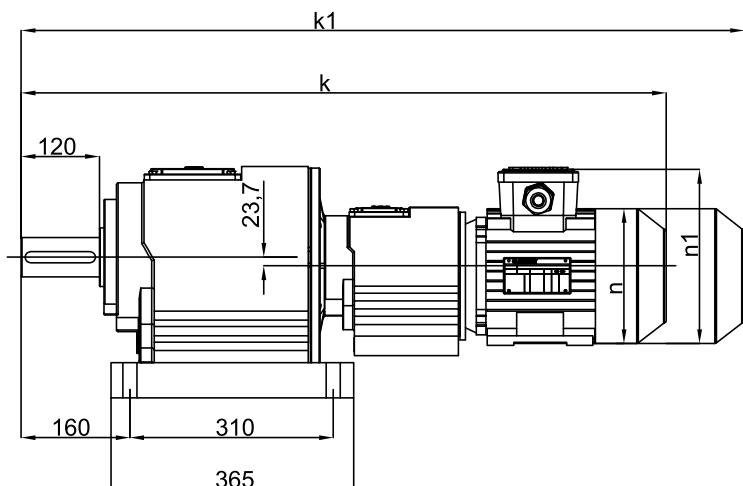
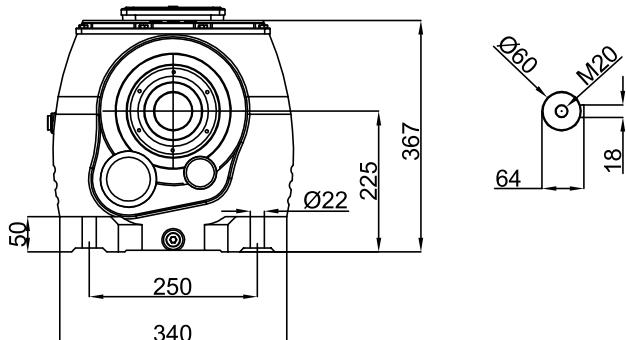
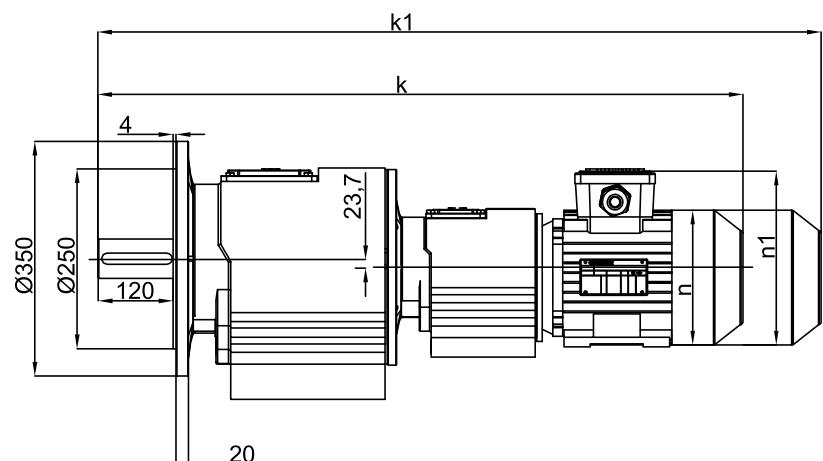
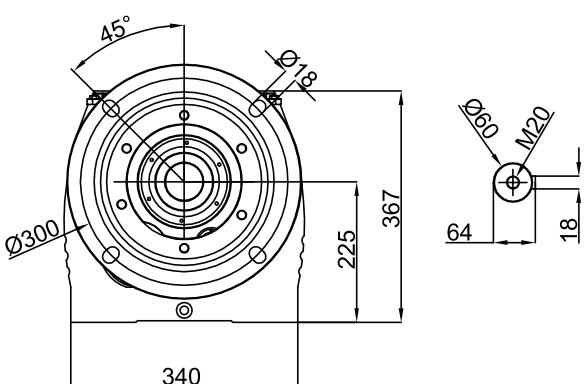
**Klemens Pozisyonları
Terminal Box**

 71-80-90
Tip

Poz.1

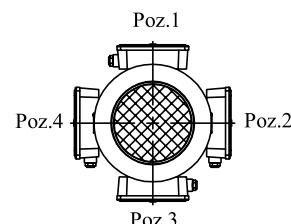


* k1 Ölçüsü frenli redüktörler aittir. / Dimension "k1" is for motors with brake.

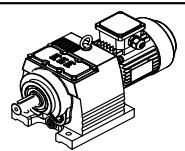
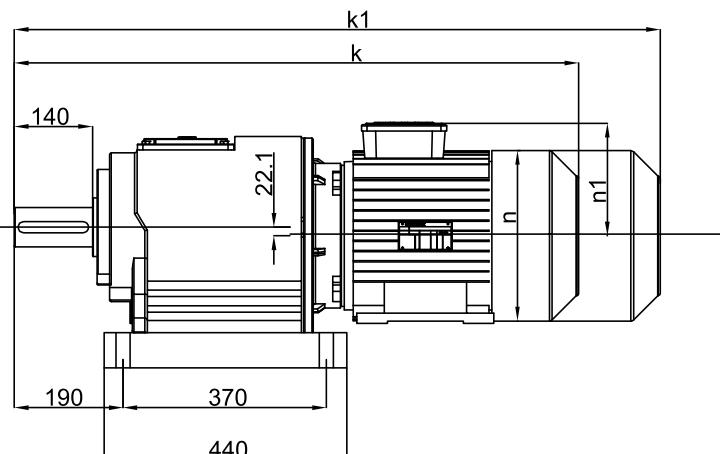
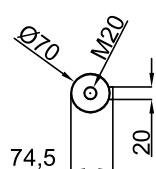
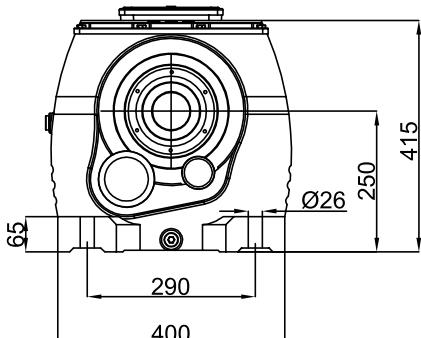
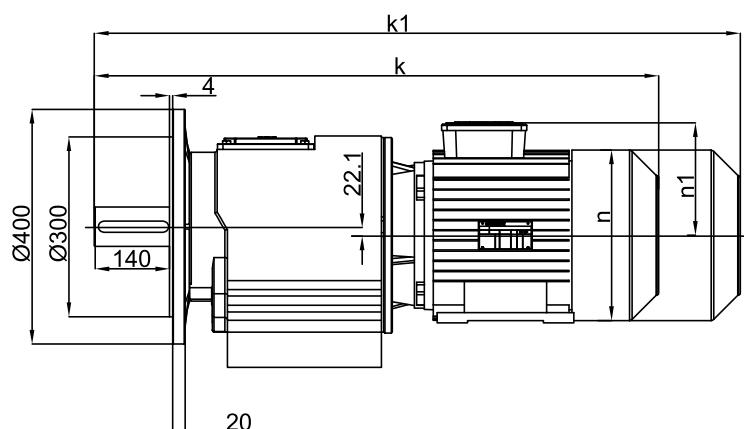
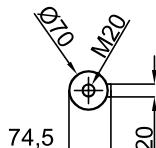
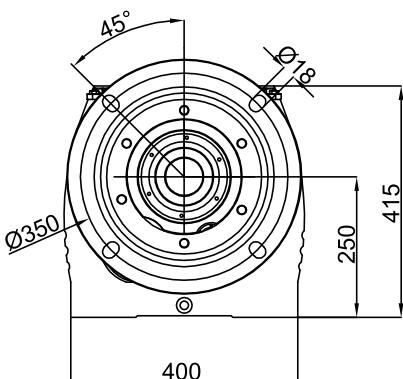

MRA575
MRA576

MRF575
MRF576

Motor Büyüklüğü / Motor Size

	63	71
k	836	855
k1	889	975
n	121	138
n1	97	111
x	-	-

**Klemens Pozisyonları
Terminal Box**

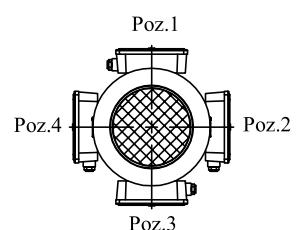
 63-71
Tip


* k1 Ölçüsü frenli redüktörler aittir. / Dimension "k1" is for motors with brake.

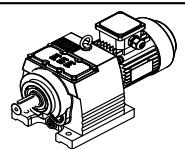
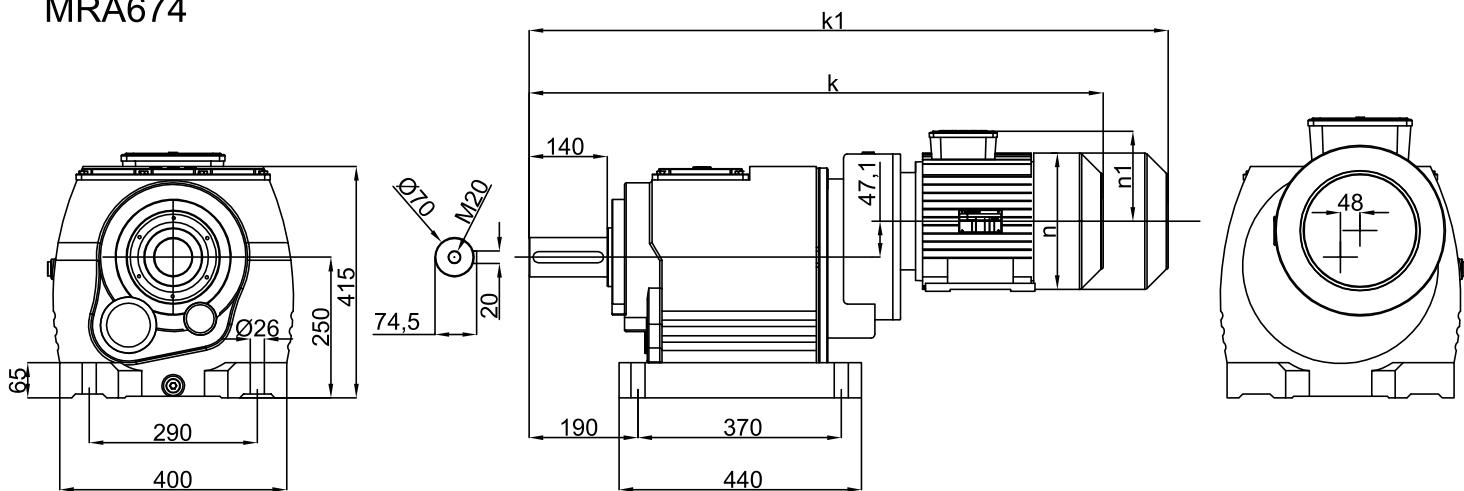
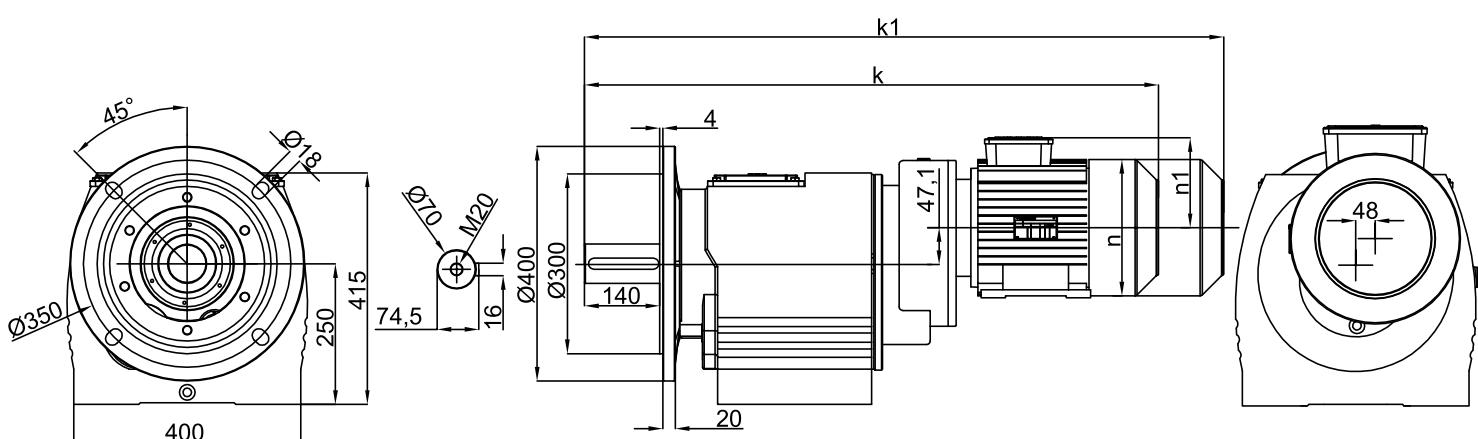

MRA672
MRA673

MRF672
MRF673


Motor Büyüklüğü / Motor Size										
	112M	132S	132M	160M	160L	180M	180L	200L	225S	225M
k	825	879	917	991	1035	1049	1087	1129	1155	1180
k1	960	1024	1062	1161	1205	1219	1257	1329	1345	1370
n	218	257	257	310	310	348	348	390	434	434
n1	146	168	168	225	225	241	241	275	285	285
x	-	-	-	-	-	-	-	-	-	-

Klemens Pozisyonları
Terminal Box

 112-132S-132M-160M-160L
 180M-180L-200L-225S-225M
 Tip


* k1 Ölçüsü frenli redüktörler aittir. / Dimension "k1" is for motors with brake.


MRA674

MRF674


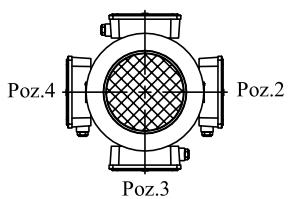
Motor Büyüklüğü / Motor Size			
	80	90S	90L
k	827	855	880
k1	947	980	1005
n	156	176	176
n1	118	126	126
x	-	-	-

**Klemens Pozisyonları
Terminal Box**

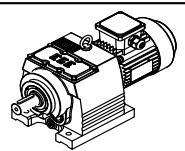
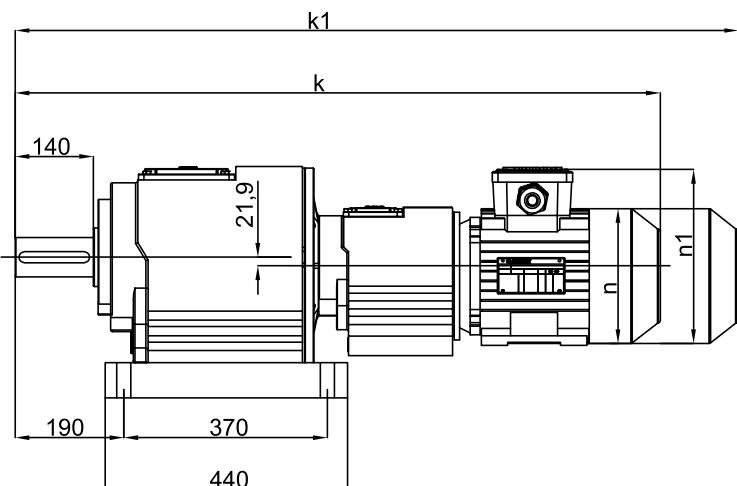
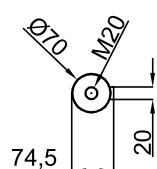
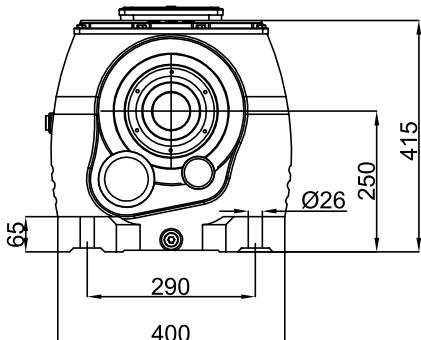
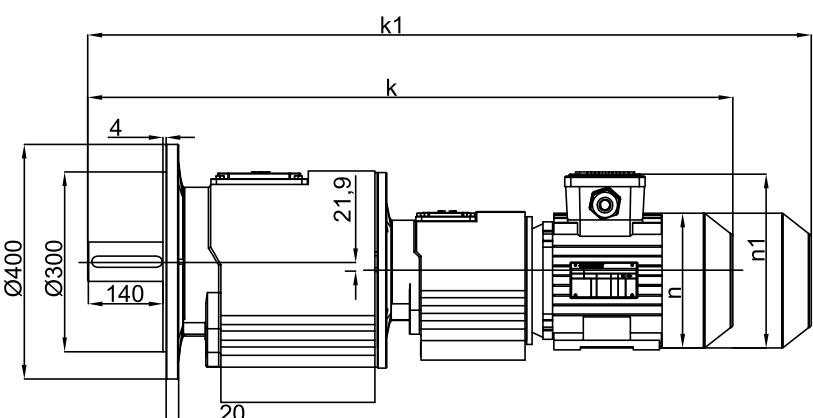
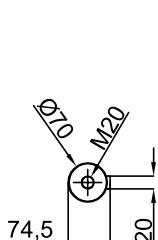
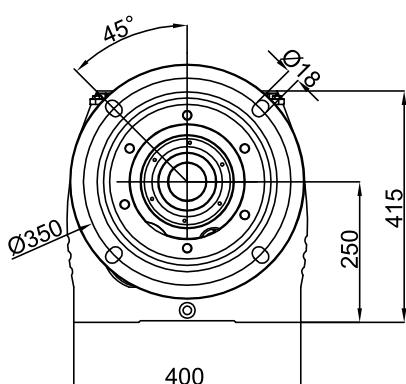
80-90

Tip

Poz.1



* k1 Ölçüsü frenli redüktörler aittir. / Dimension "k1" is for motors with brake.


MRA675
MRA676

MRF675
MRF676

Motor Büyüklüğü / Motor Size

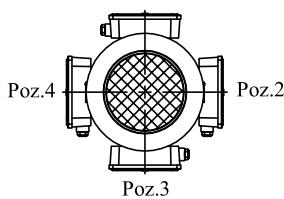
	71	80
k	944	972
k1	1064	1092
n	138	156
n1	111	118
x	-	-

**Klemens Pozisyonları
Terminal Box**

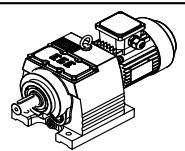
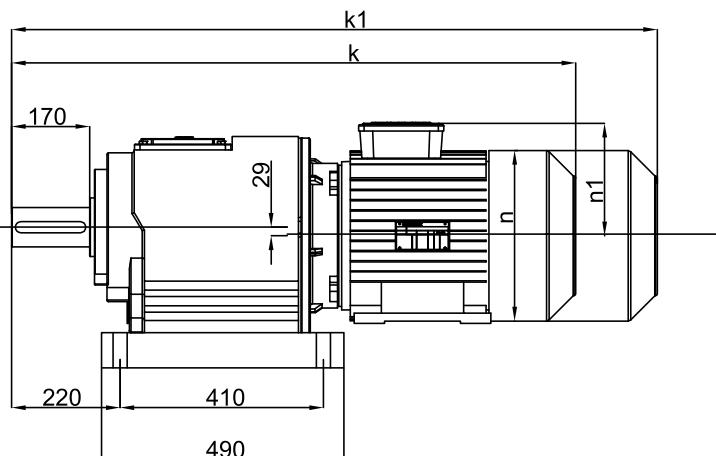
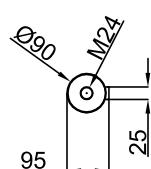
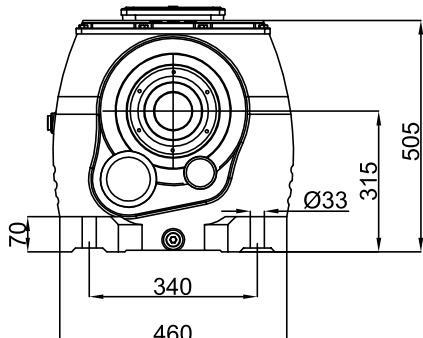
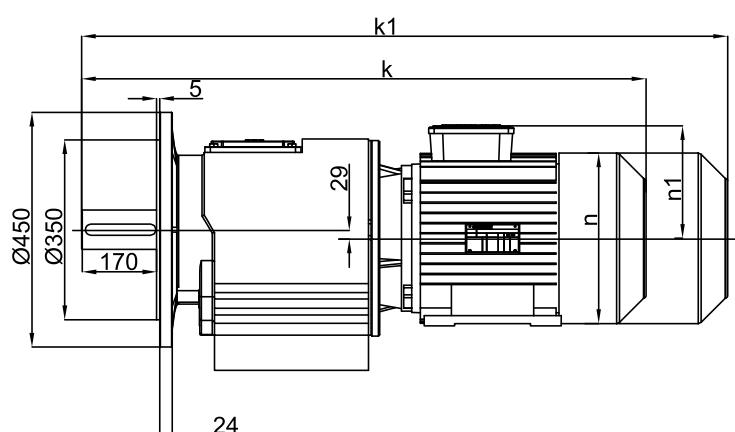
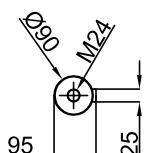
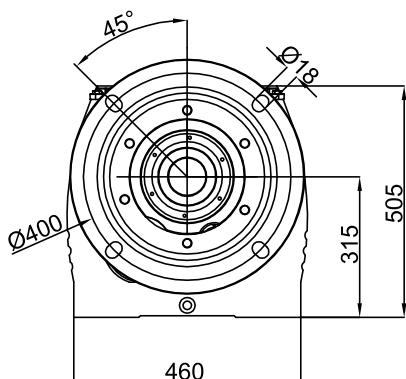
71-80

Tip

Poz.1

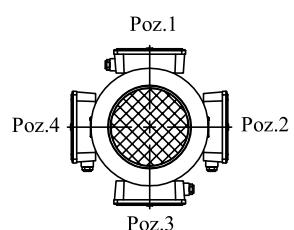


* k1 Ölçüsü frenli redüktörler aittir. / Dimension "k1" is for motors with brake.

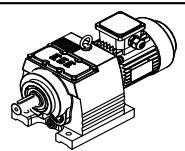
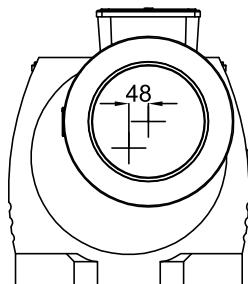
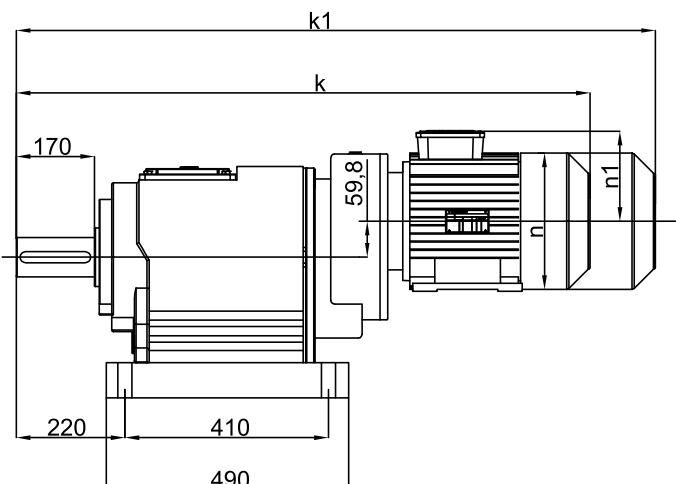
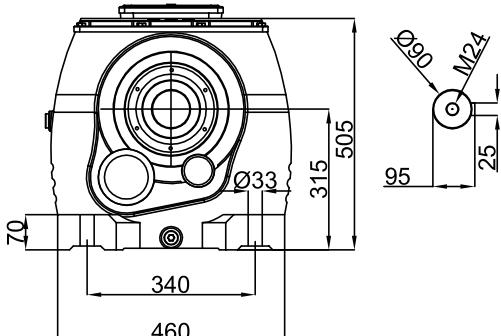
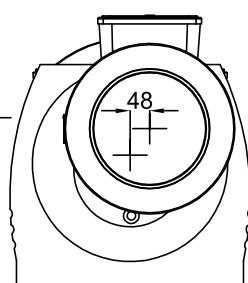
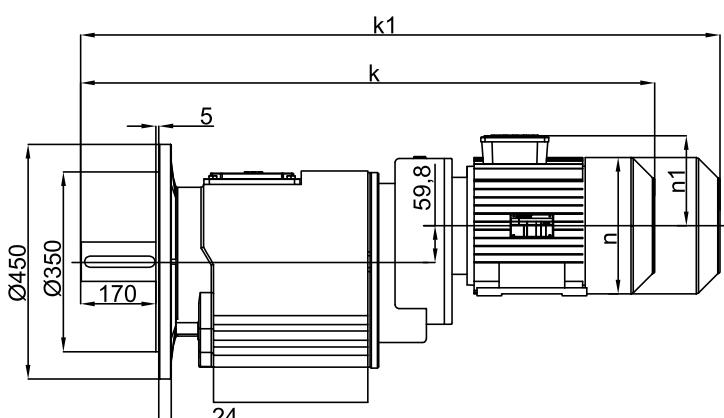
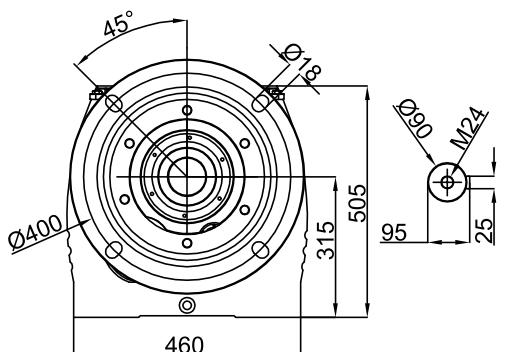

MRA772
MRA773

MRF772
MRF773


Motor Büyüklüğü / Motor Size										
	132S	132M	160M	160L	180M	180L	200L	225S	225M	250M
k	958	996	1072	1116	1133	1171	1210	1237	1262	1366
k1	1103	1141	1242	1286	1303	1341	1410	1427	1452	-
n	257	257	310	310	348	348	390	434	434	480
n1	168	168	225	225	241	241	275	285	285	322
x	-	-	-	-	-	-	-	-	-	-

Klemens Pozisyonları
Terminal Box

 132S-132M-160M-160L
 180M-180L-200L-225S-225M-250M
 Tip


* k1 Ölçüsü frenli redüktörler aittir. / Dimension "k1" is for motors with brake.


MRA774

MRF774

Motor Büyüklüğü / Motor Size

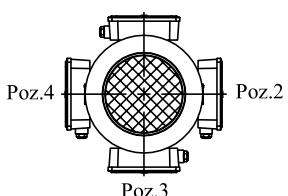
	80	90S	90L	100L
k	912	940	965	1003
k1	1032	1065	1090	1138
n	156	176	176	194
n1	118	126	126	135
x	-	-	-	

Klemens Pozisyonları / Terminal Box

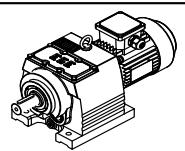
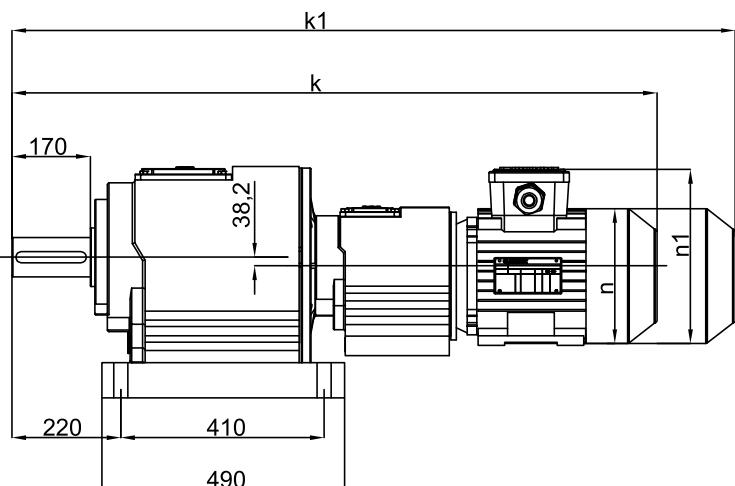
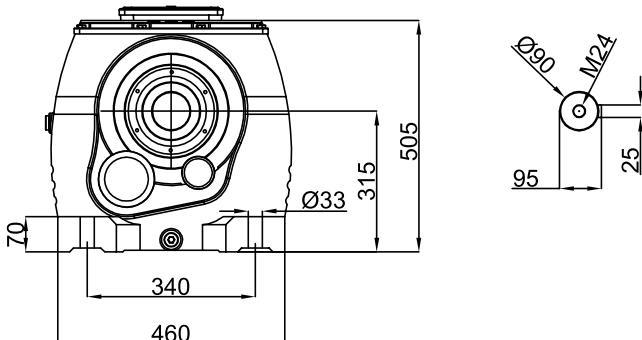
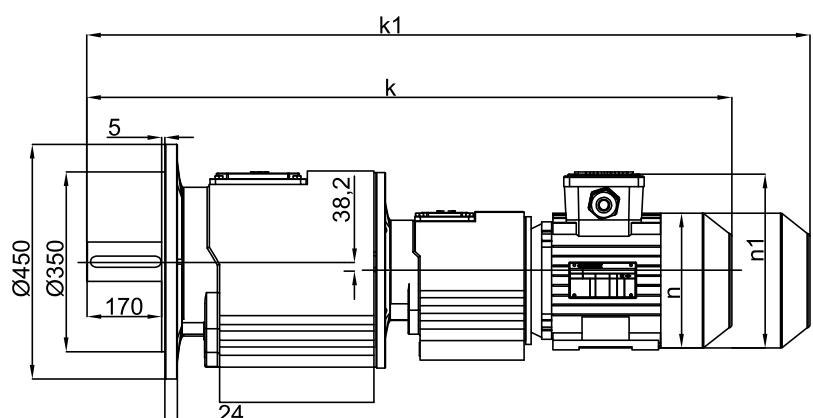
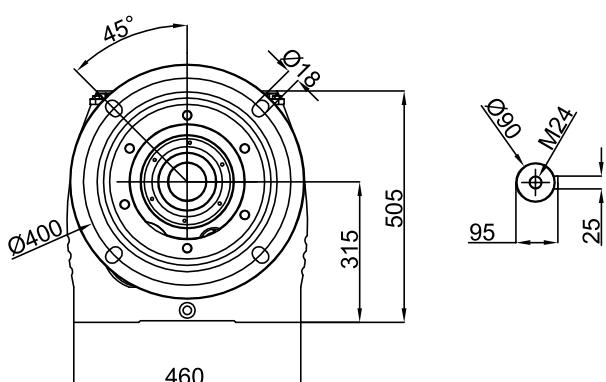
80-90S-90L-100L

Tip

Poz.1

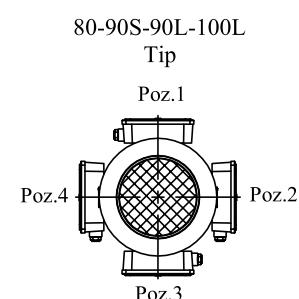


* k1 Ölçüsü frenli redüktörler aittir. / Dimension "k1" is for motors with brake.

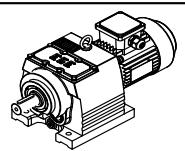
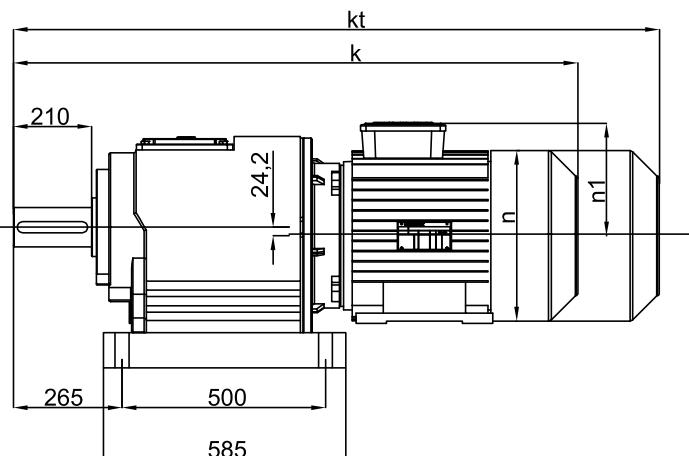
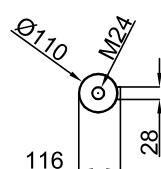
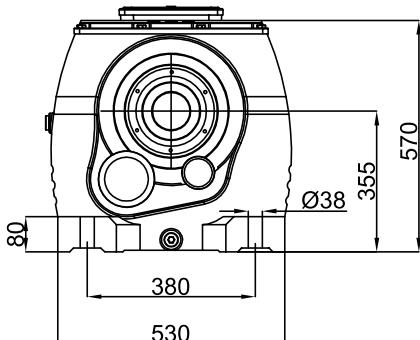
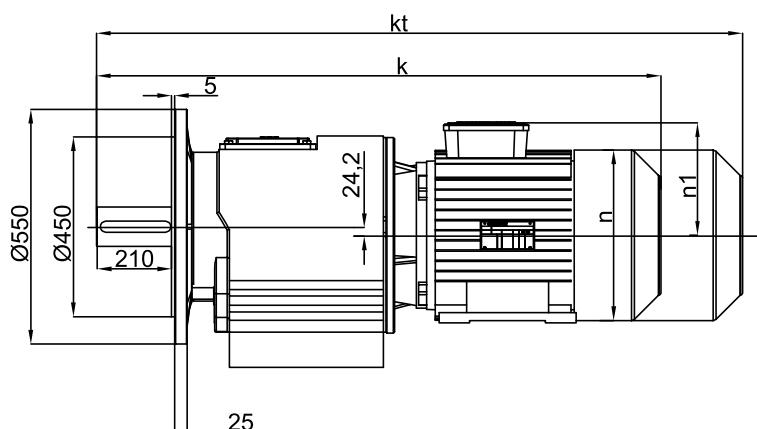
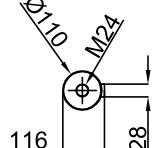
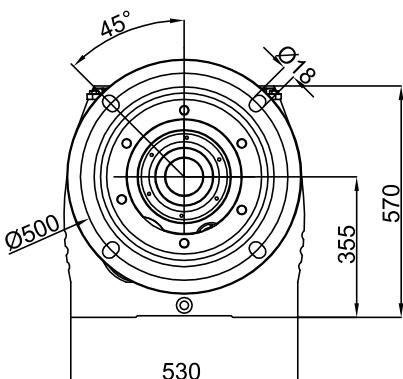

 MRA775
 MRA776

 MRF775
 MRF776


Motor Büyüklüğü / Motor Size

	71	80	90S	90L
k	1032	1060	1090	1115
k1	1152	1180	1215	1240
n	156	156	176	176
n1	118	118	126	126
x	-	-	-	-

 Klemens Pozisyonları
 Terminal Box


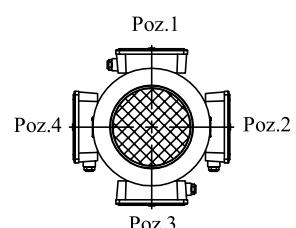
* k1 Ölçüsü frenli redüktörler aittir. / Dimension "k1" is for motors with brake.


MRA872
MRA873

MRF872
MRF873


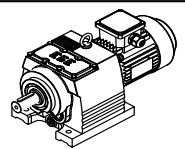
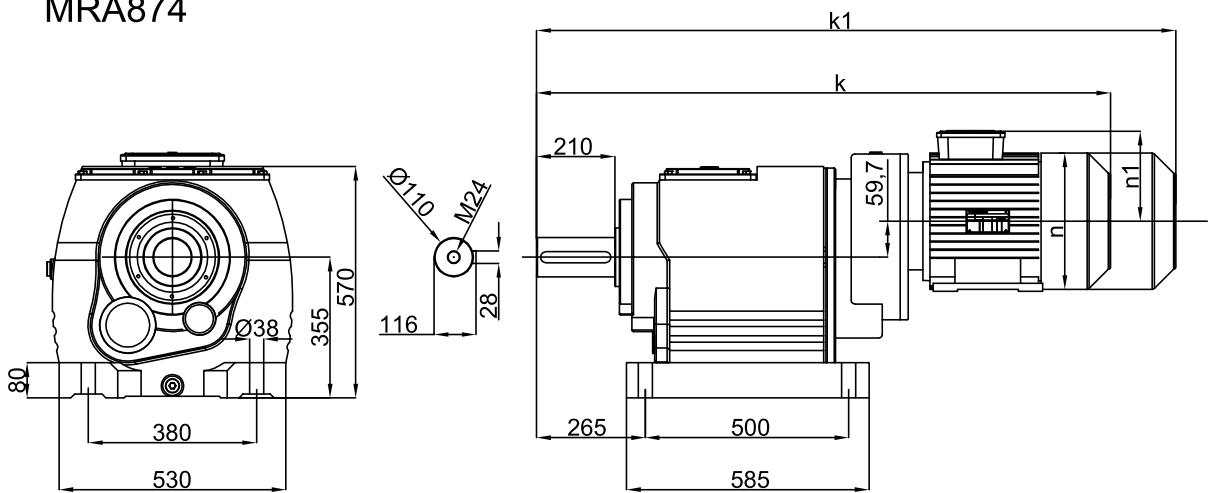
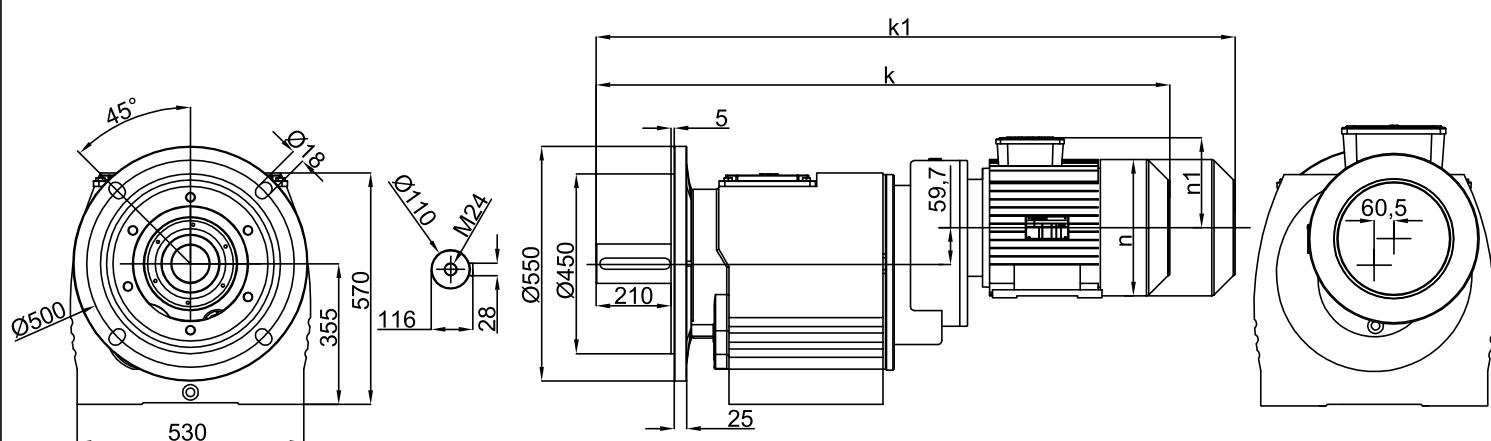
Motor Büyüklüğü / Motor Size

	132M	160M	160L	180M	180L	200L	225S	225M	250M	280S	280M
k	1106	1181	1225	1242	1280	1319	1348	1373	1476	1537	1537
k1	1251	1351	1395	1412	1450	1519	1538	1563	-	-	-
n	257	310	310	348	348	390	434	434	480	544	544
n1	168	225	225	241	241	275	285	285	322	350	350
x	-	-	-	-	-	-	-	-	-	-	-

Klemens Pozisyonları
Terminal Box

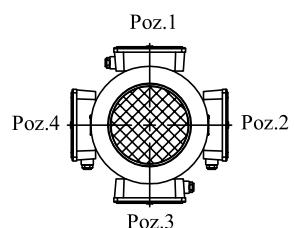
 132M-160M-160L-180M-180L
 200L-225S-225M-250M-280S-280M
 Tip


* k1 Ölçüsü frenli redüktörler aittir. / Dimension "k1" is for motors with brake.

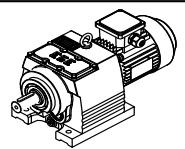
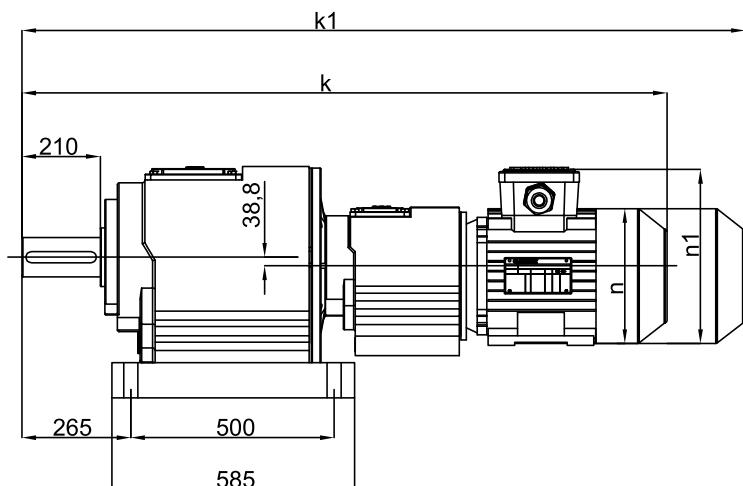
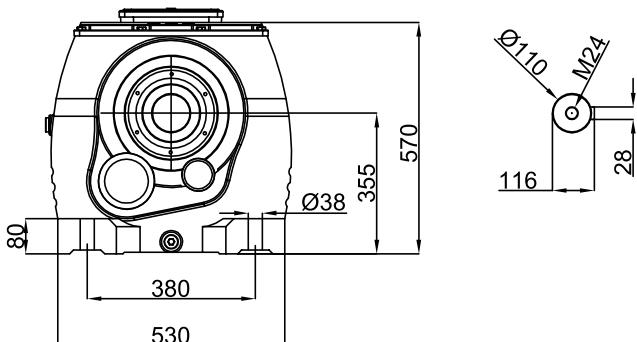
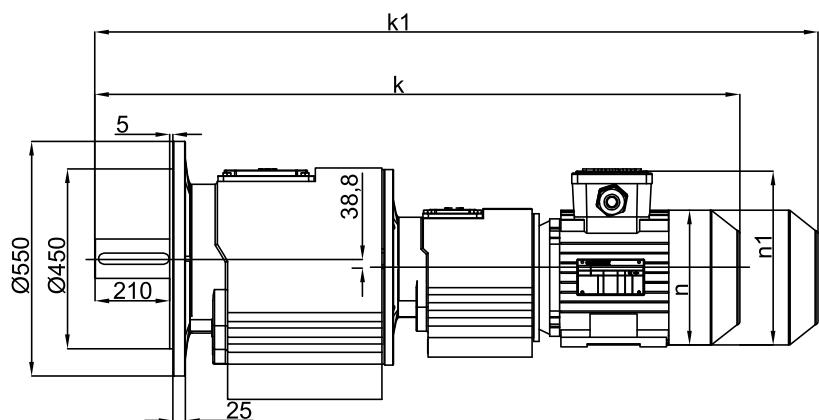
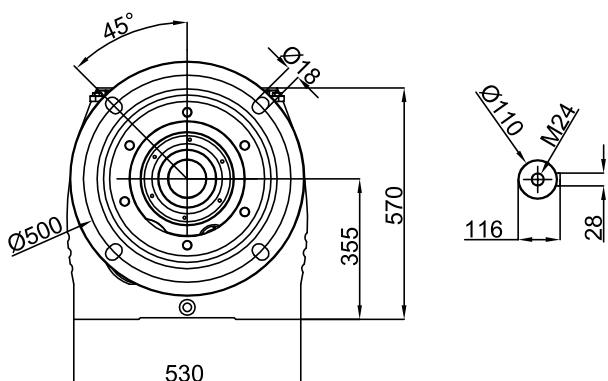

MRA874

MRF874


Motor Büyüklüğü / Motor Size				
	100L	112M	132S	132M
k	1134	1157	1211	1249
k1	1269	1292	1356	1394
n	194	218	257	257
n1	135	146	168	168
x	-	-	-	-

**Klemens Pozisyonları
Terminal Box**

 100-112-132S-132M
Tip


* k1 Ölçüsü frenli redüktörler aittir. / Dimension "k1" is for motors with brake.


MRA875
MRA876

MRF875
MRF876

Motor Büyüklüğü / Motor Size

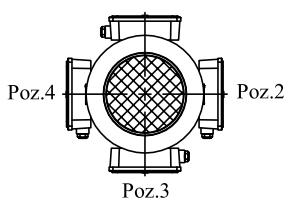
	71	80	90S	90L	100L
k	1149	1177	1207	1232	1272
k1	1269	1297	1332	1357	1407
n	156	156	176	176	194
n1	118	118	126	126	135
x	-	-	-	-	-

**Klemens Pozisyonları
Terminal Box**

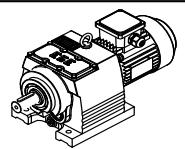
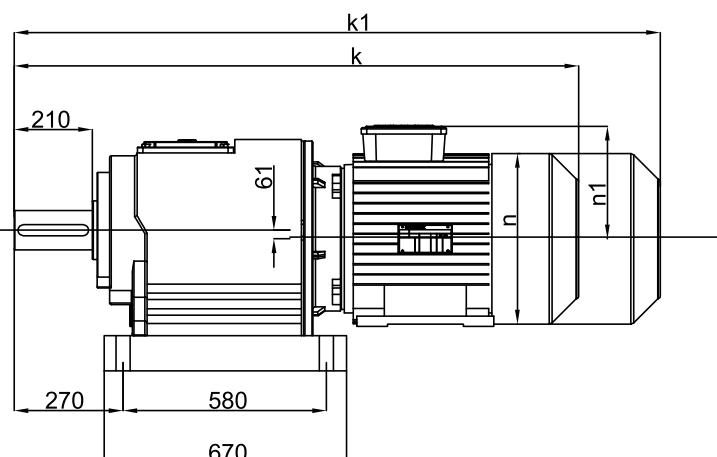
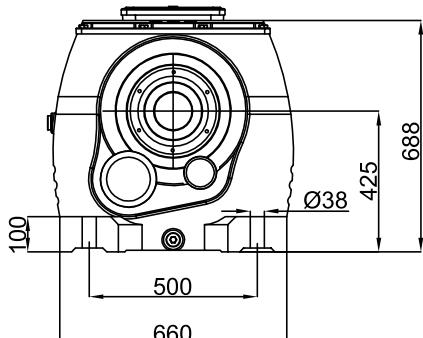
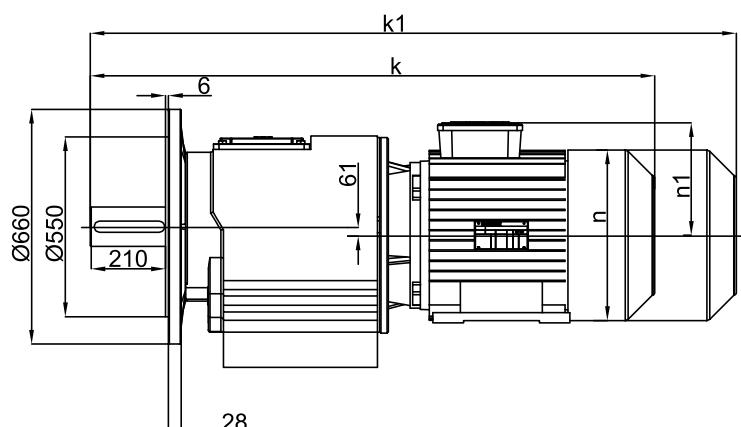
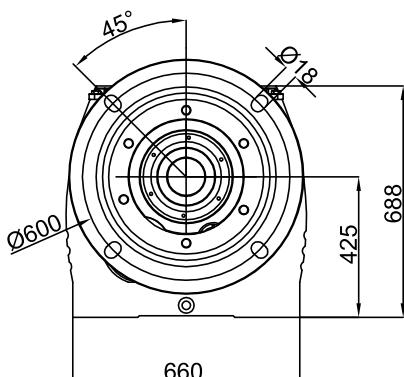
71-80-90S-90L-100L

Tip

Poz.1

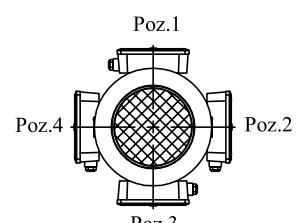


* k1 Ölçüsü frenli redüktörlerle aittir. / Dimension "k1" is for motors with brake.

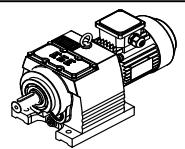
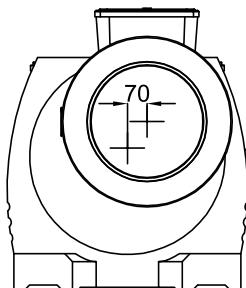
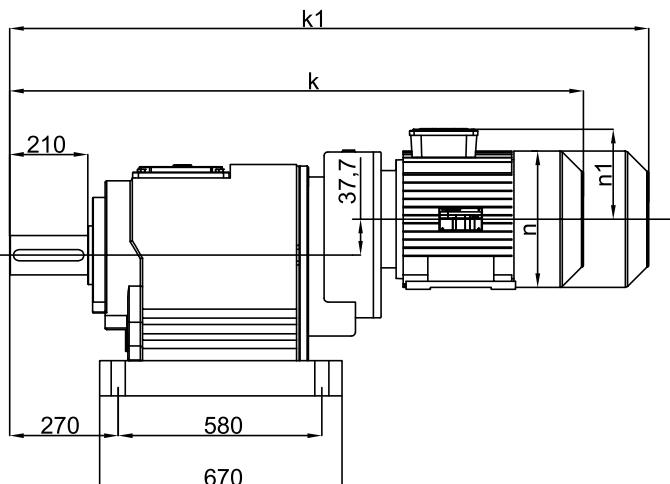
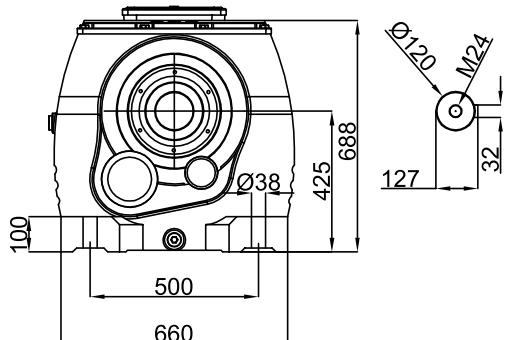
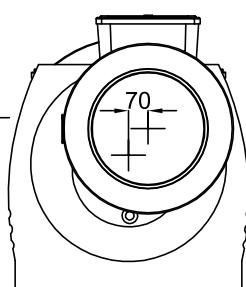
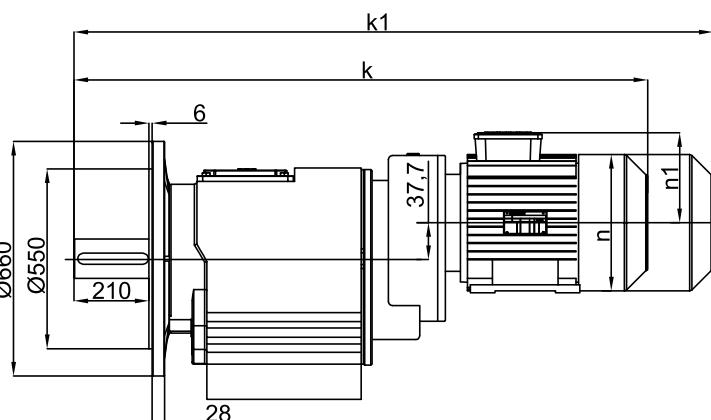
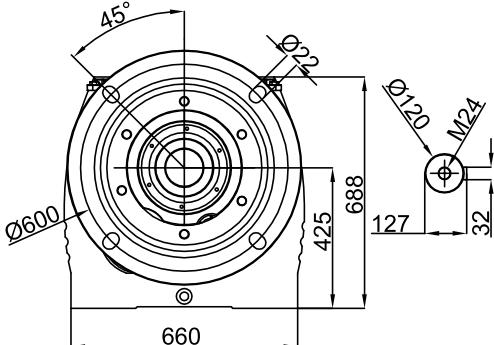

MRA972
MRA973

MRF972
MRF973

Motor Büyüklüğü / Motor Size

	160M	160L	180M	180L	200L	225S	225M	250M	280S	280M	315S	315M
k	1248	1292	1308	1346	1385	1403	1426	1529	1590	1590	1702	1754
k1	1418	1462	1478	1516	1585	1593	1616	-	-	-		
n	310	310	348	348	390	434	434	480	544	544	614	614
n1	225	225	241	241	275	285	285	322	350	350	510	510
x	-	-	-	-	-	-	-	-	-	-	-	-

**Klemens Pozisyonları
Terminal Box**

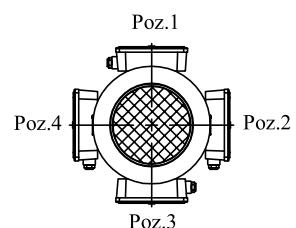
 160M-160L-180M-180L
 200L-225S-225M-250M
 280S-280M-315S-315M
 Tip


* k1 Ölçüsü frenli redüktörler aittir. / Dimension "k1" is for motors with brake.

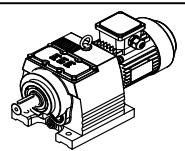
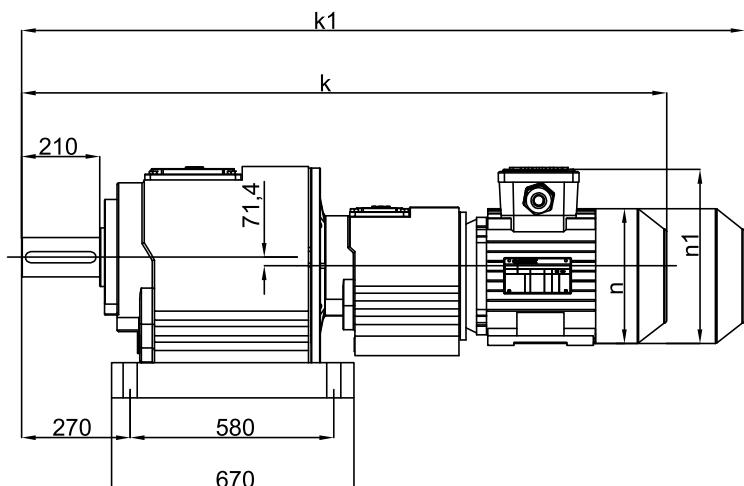
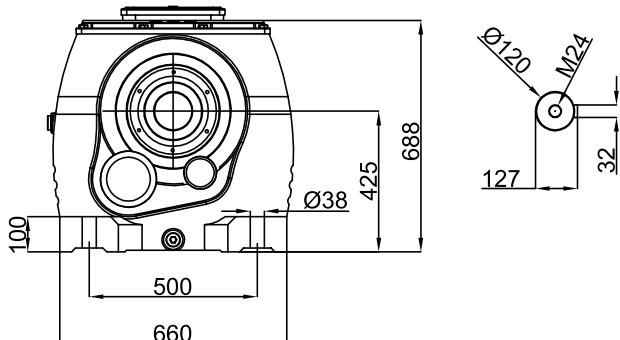
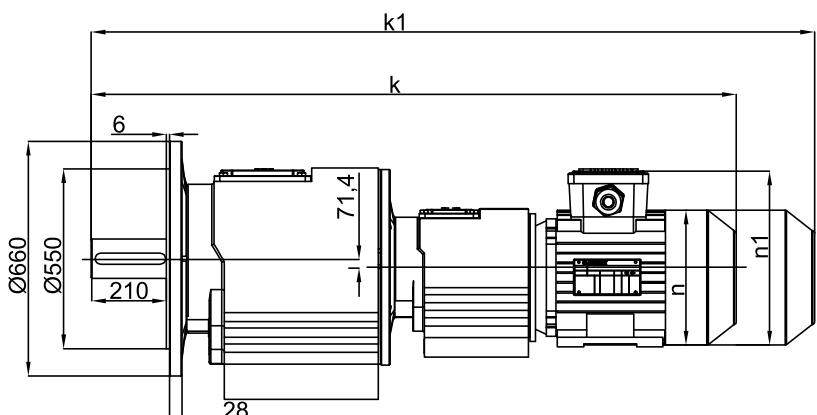
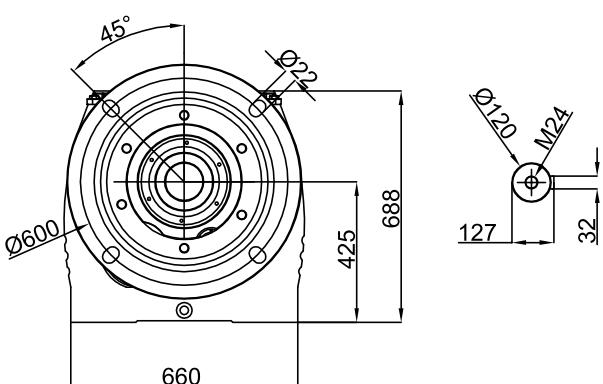

MRA974

MRF974


Motor Büyüklüğü / Motor Size				
	100L	112M	132S	132M
k	1234	1257	1311	1349
k1	1169	1392	1456	1494
n	194	218	257	257
n1	135	146	168	168
x	-	-	-	-

**Klemens Pozisyonları
Terminal Box**

 100-112-132S-132M
 Tip


* k1 Ölçüsü frenli redüktörler aittir. / Dimension "k1" is for motors with brake.


MRA975
MRA976

MRF975
MRF976

Motor Büyüklüğü / Motor Size

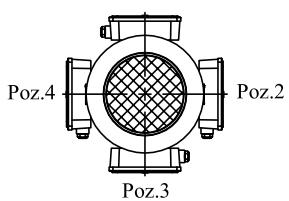
	80	90S	90L	100L	112M	132S
k	1305	1333	1358	1393	1416	1470
k1	1425	1458	1483	1528	1551	1615
n	156	176	176	194	218	257
n1	118	126	126	135	146	168
x	-	-	-	-	-	-

Klemens Pozisyonları
Terminal Box

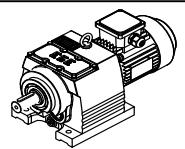
71-80-90S-90L-100L

Tip

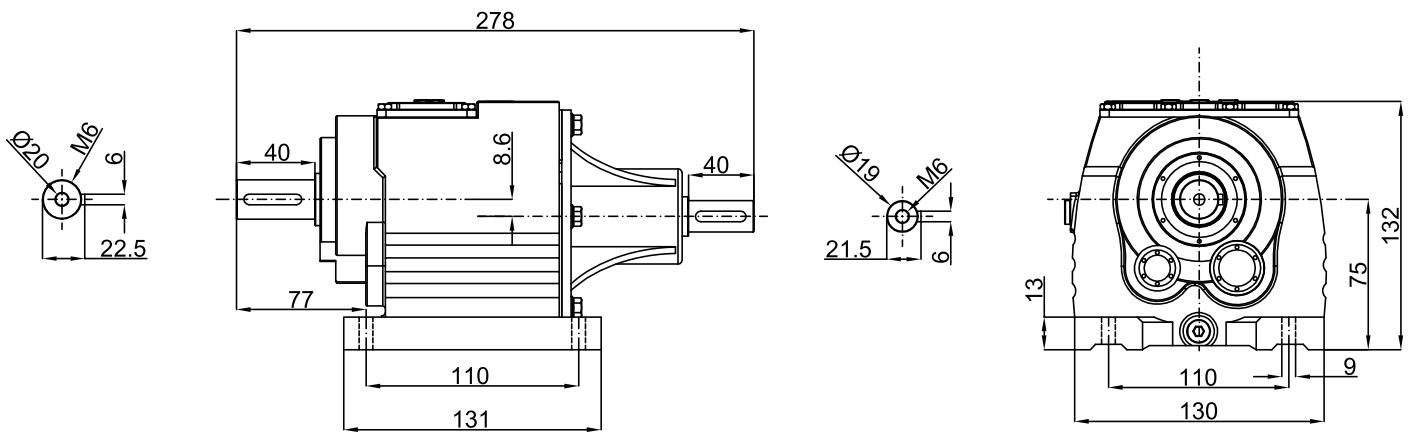
Poz.1



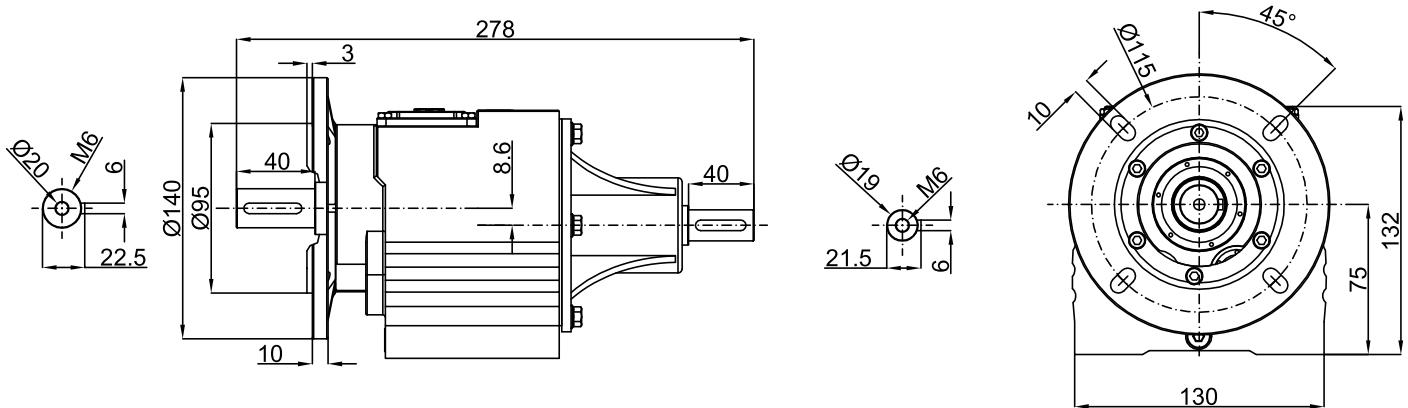
* k1 Ölçüsü frenli redüktörler aittir. / Dimension "k1" is for motors with brake.

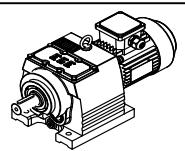


MTA002
MTA003

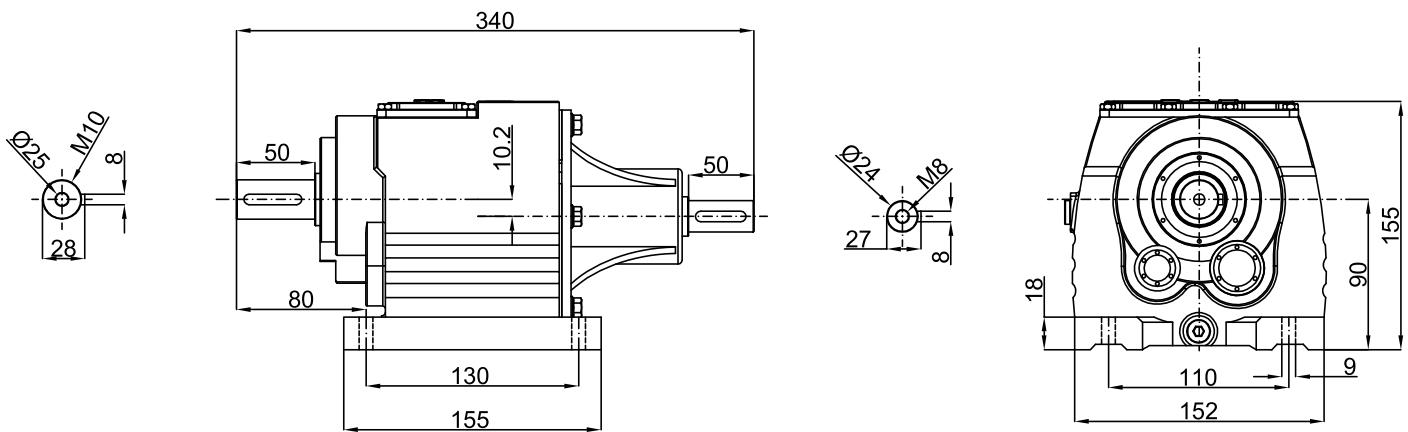


MTF002
MTF003

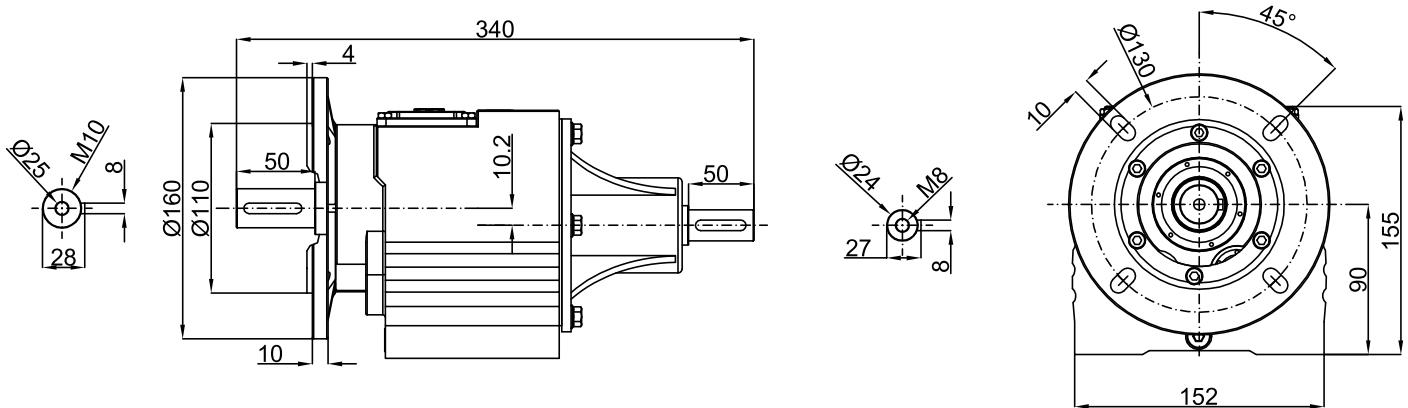


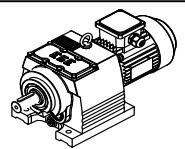


MTA102
MTA103

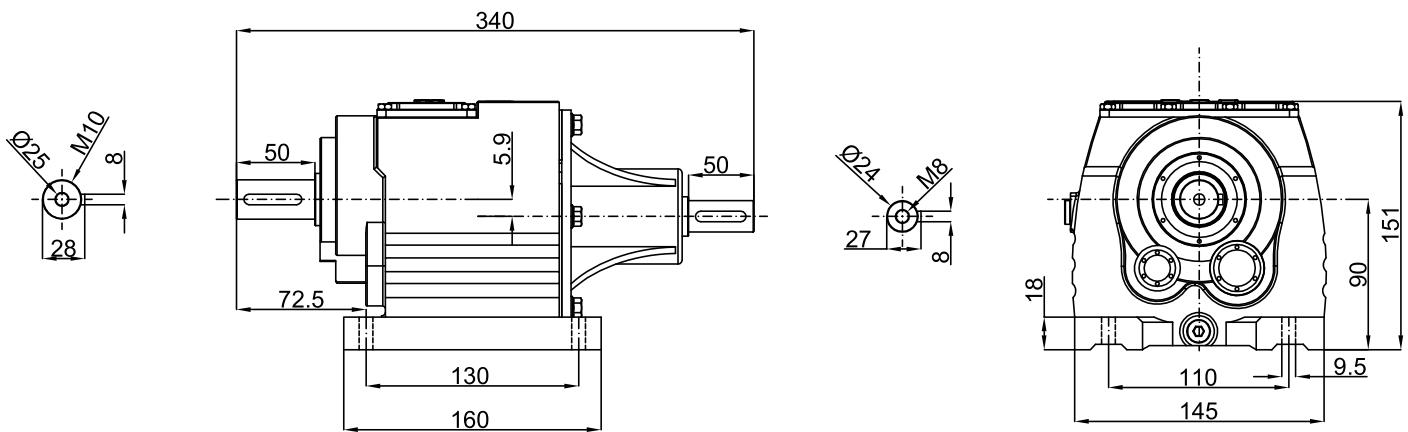


MTF102
MTF103

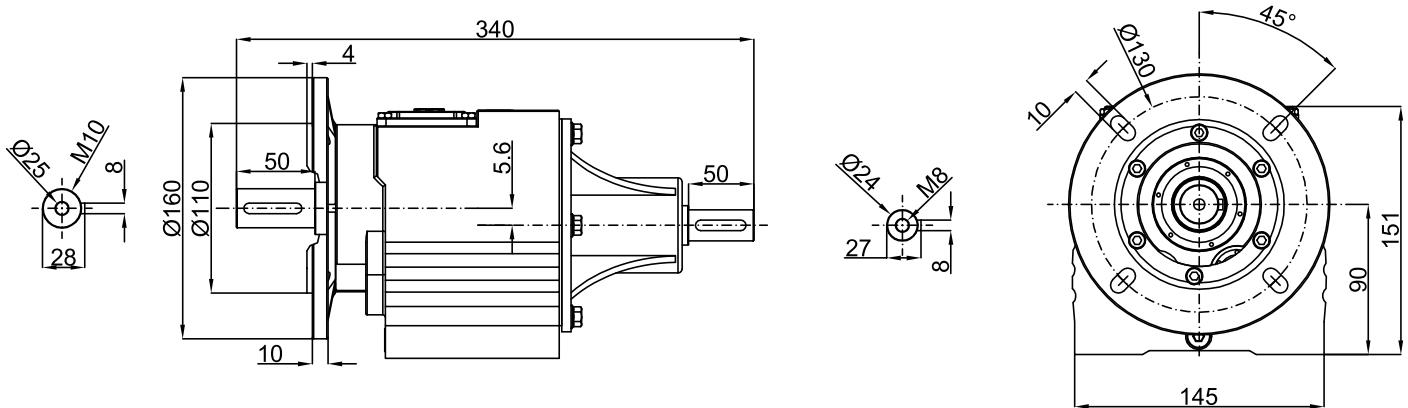


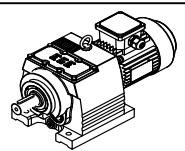


MTA172
MTA173

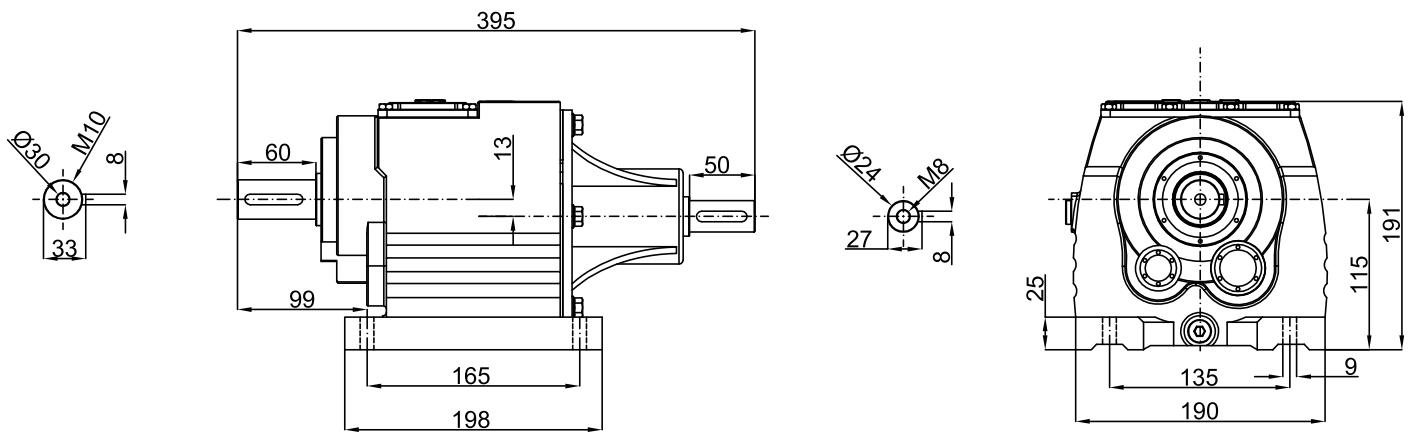


MTF172
MTF173

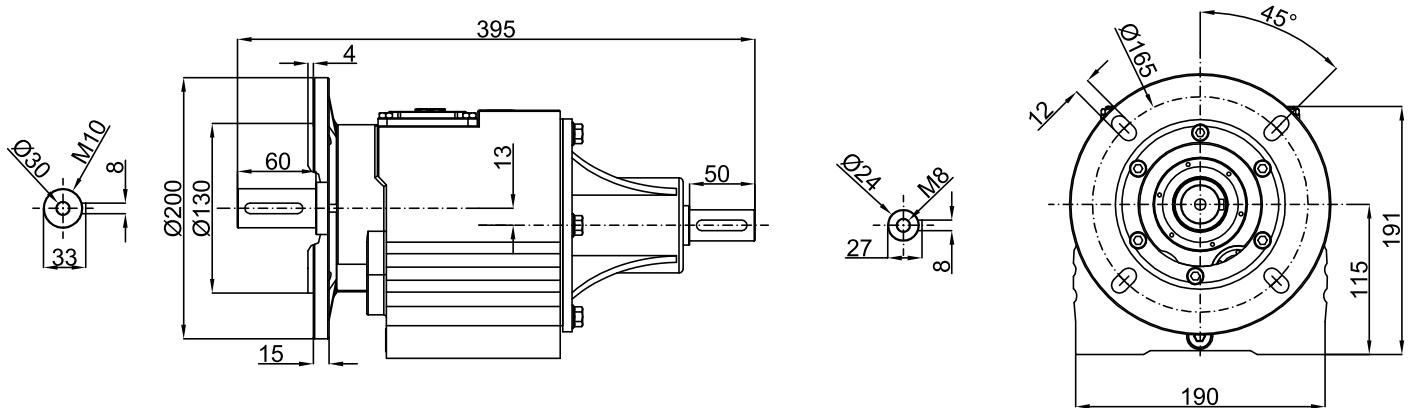


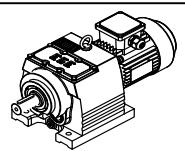


MTA202
MTA203

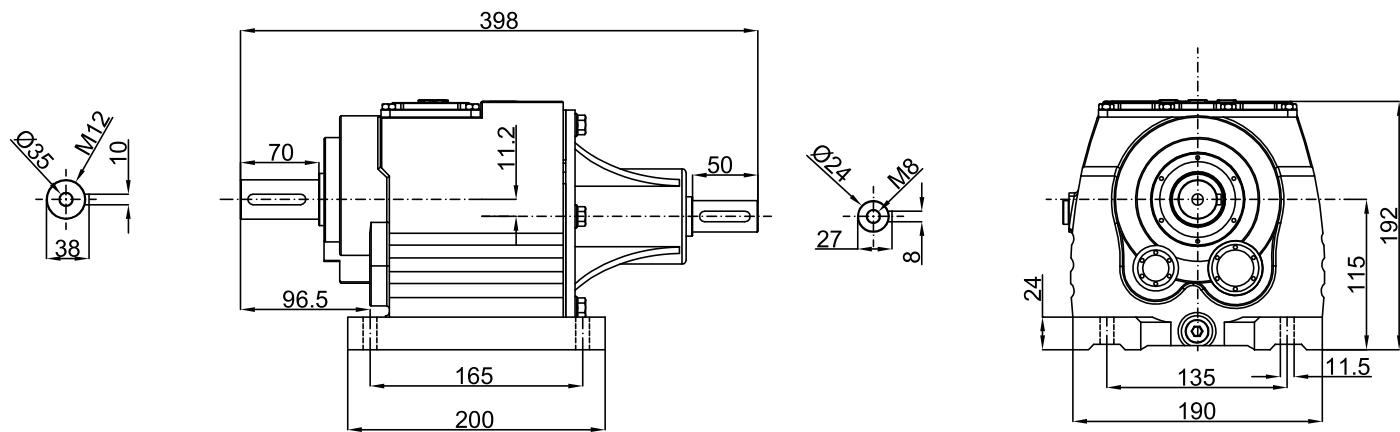


MTF202
MTF203

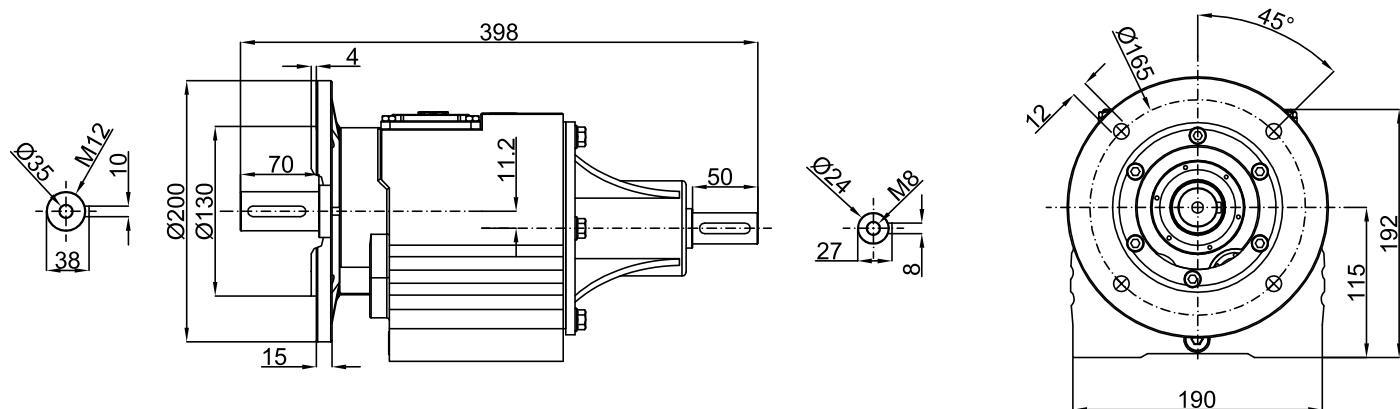


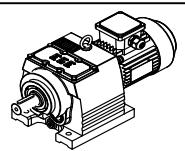


MTA272
MTA273

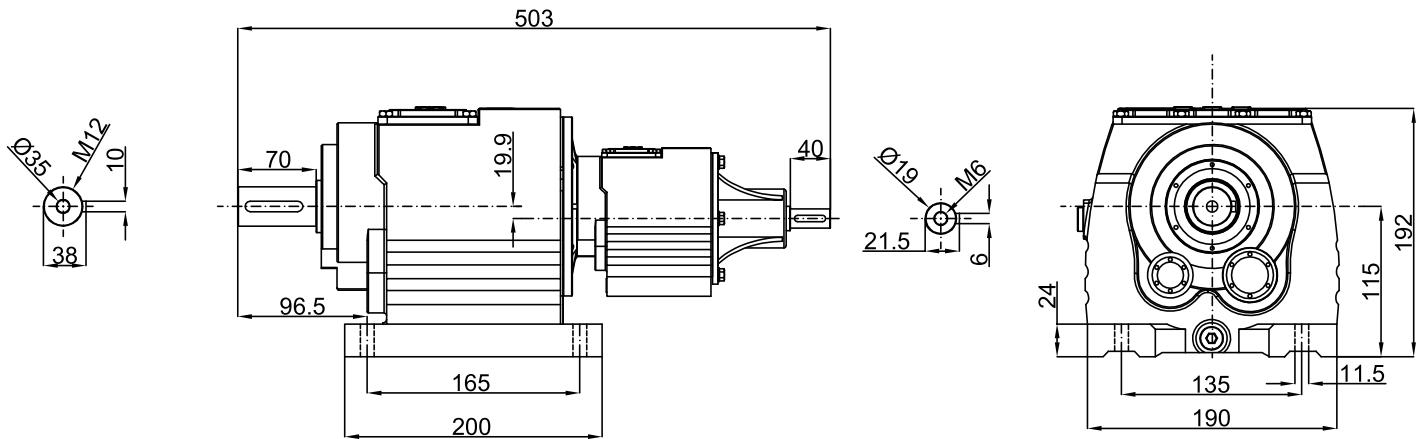


MTF272
MTF273

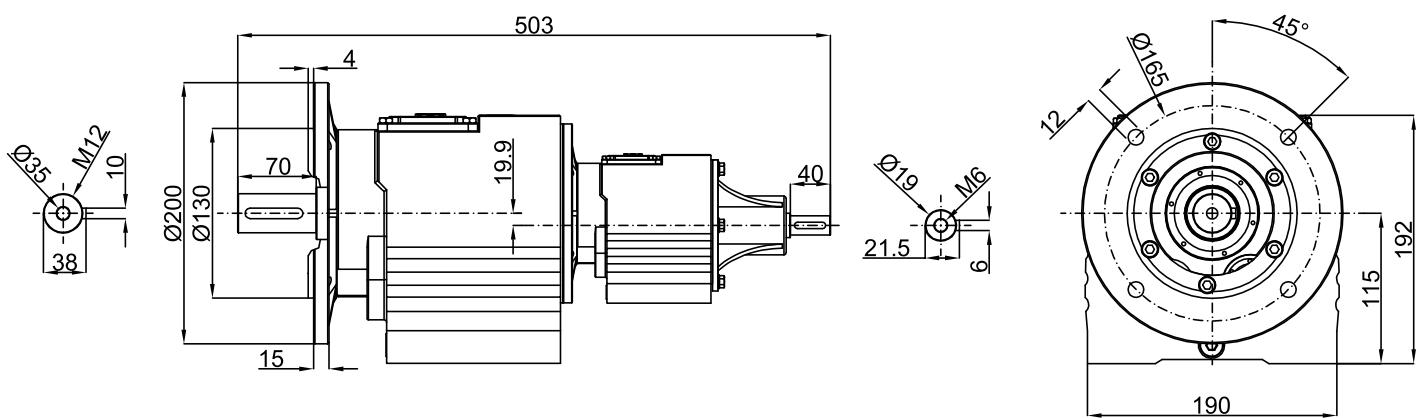


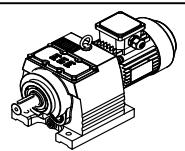


MTA275
MTA276

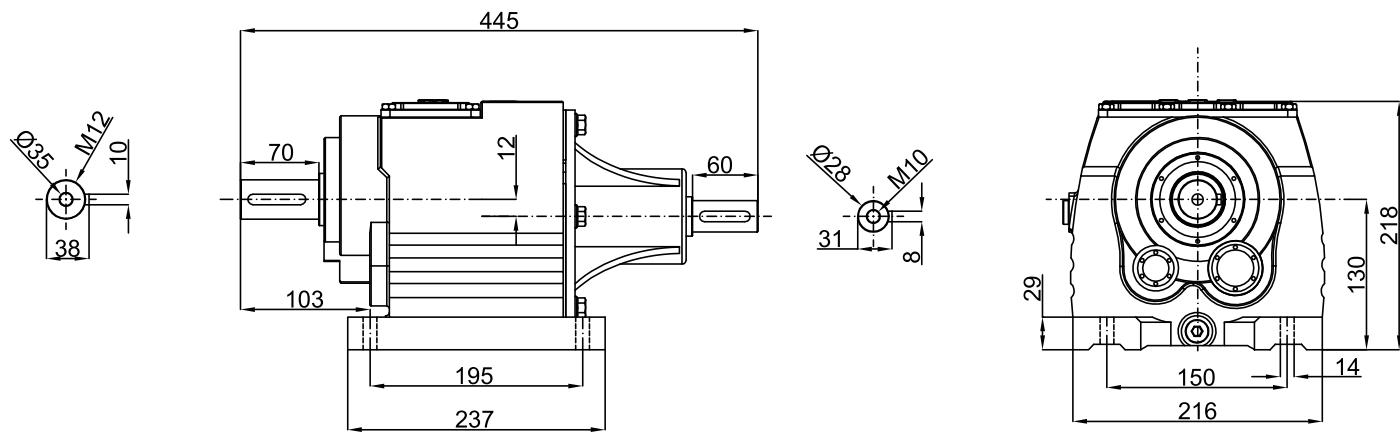


MTF275
MTF276

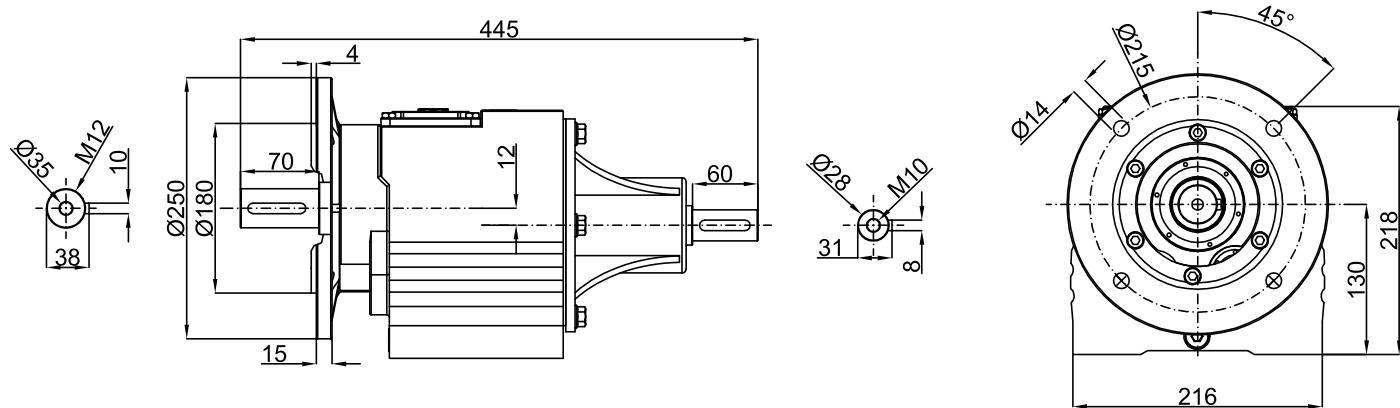


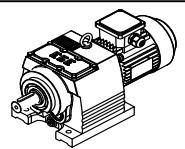


MTA282
MTA283

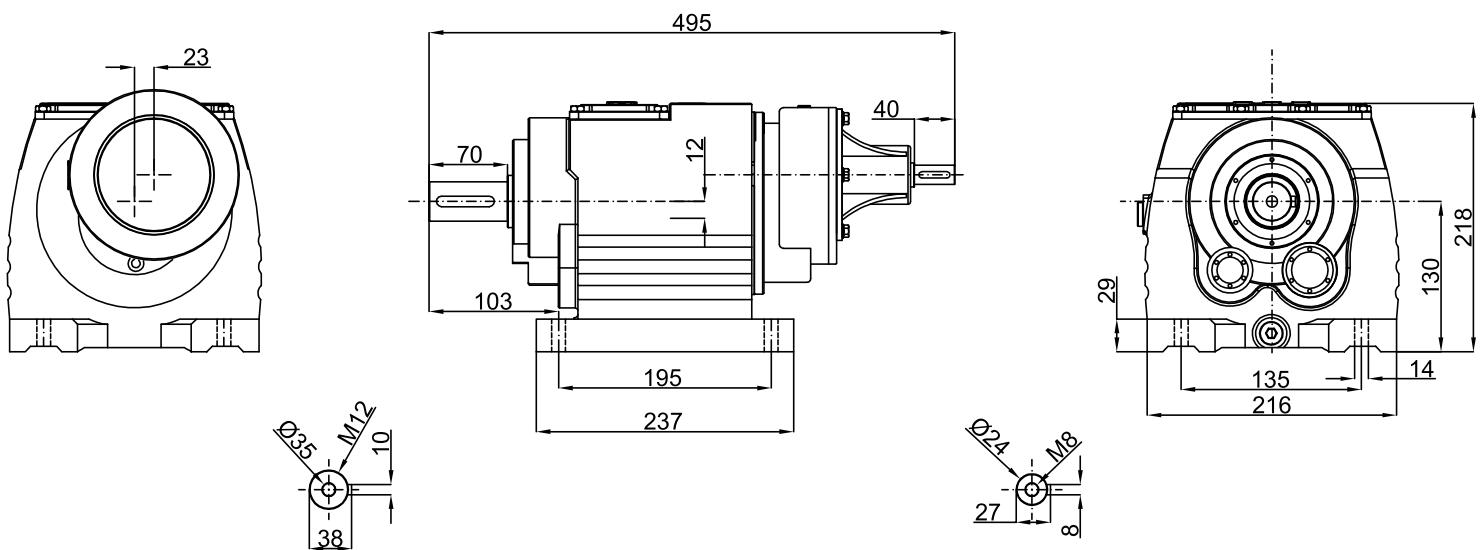


MTF282
MTF283

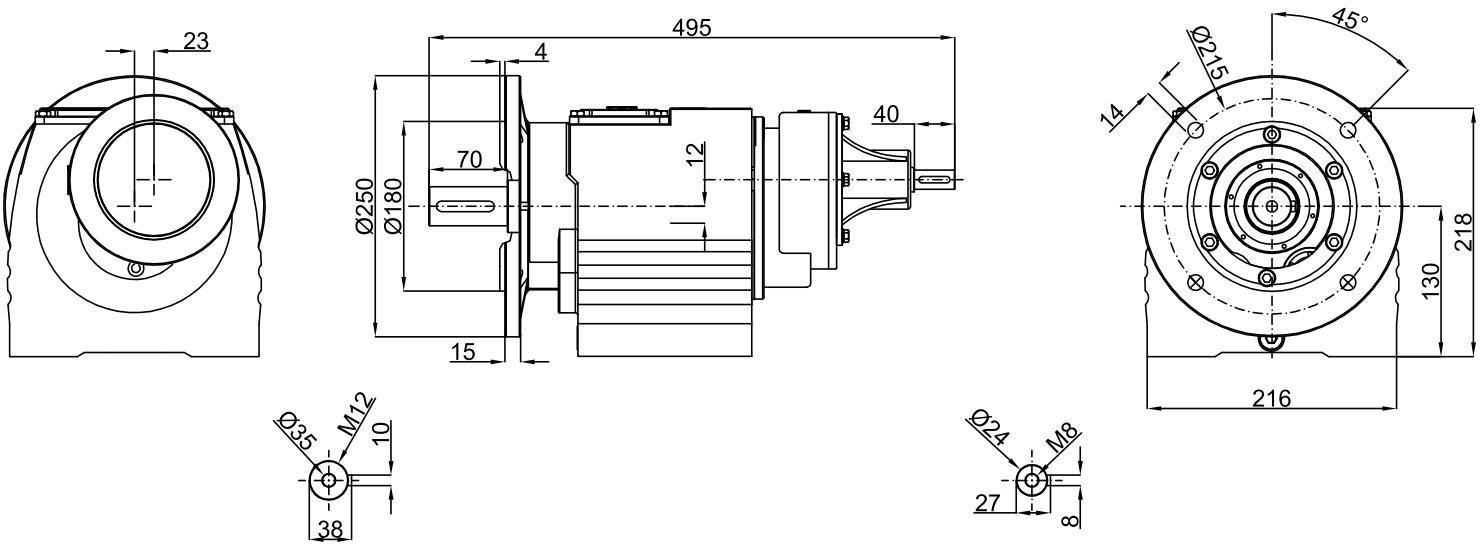


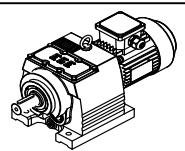


MTA284

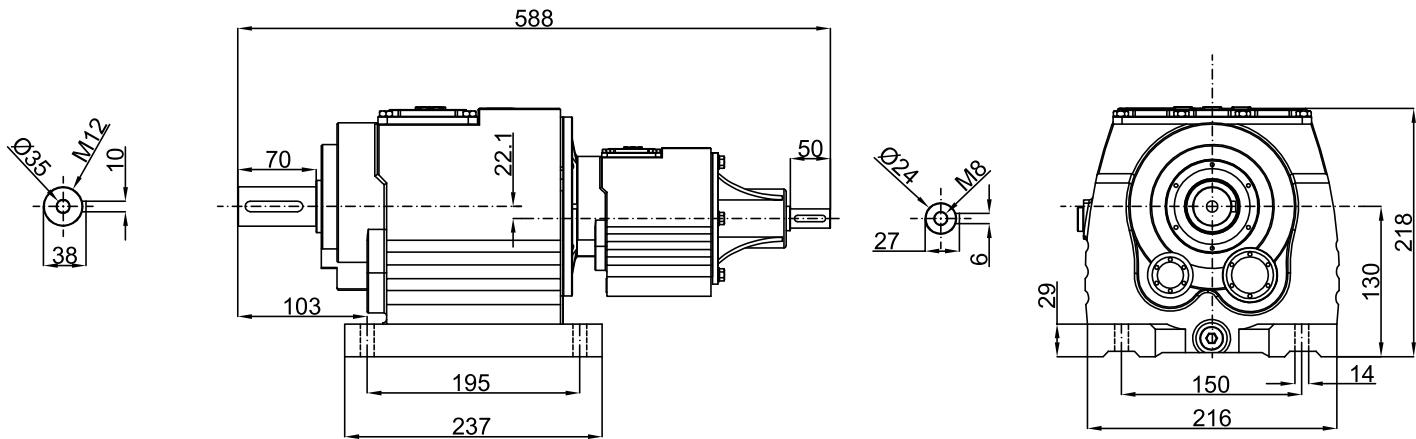


MTF284

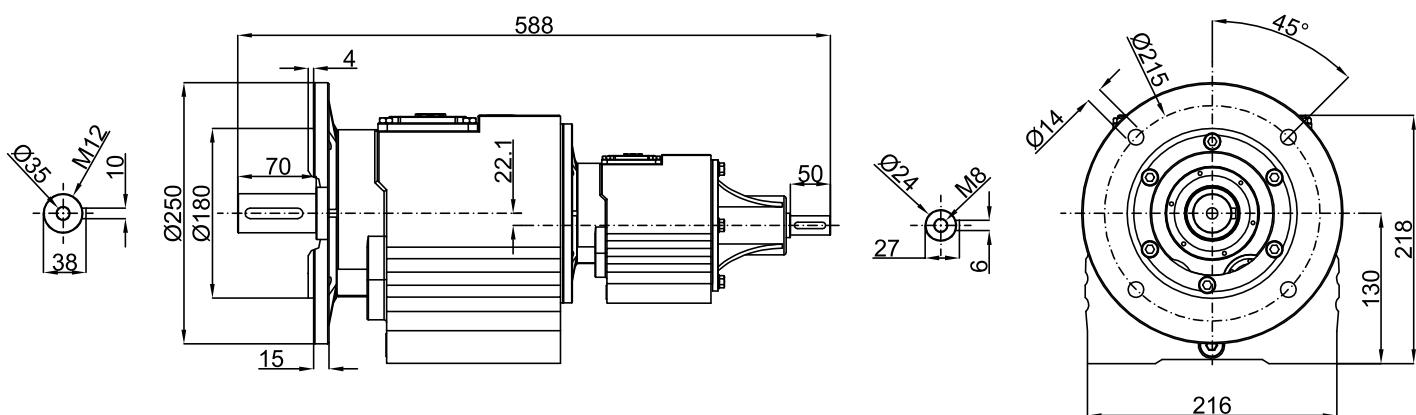


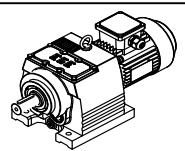


MTA285
MTA286

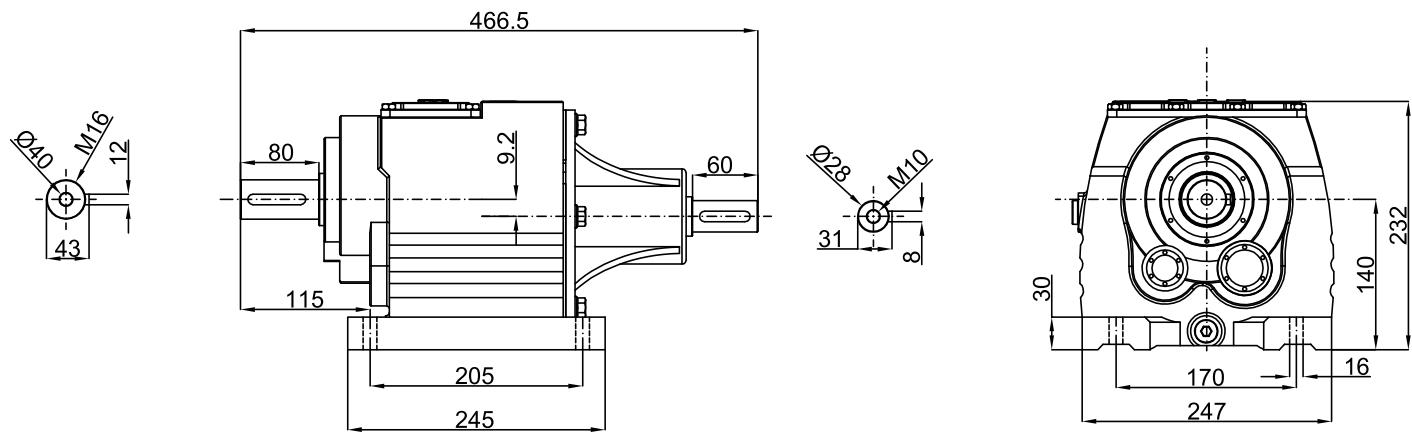


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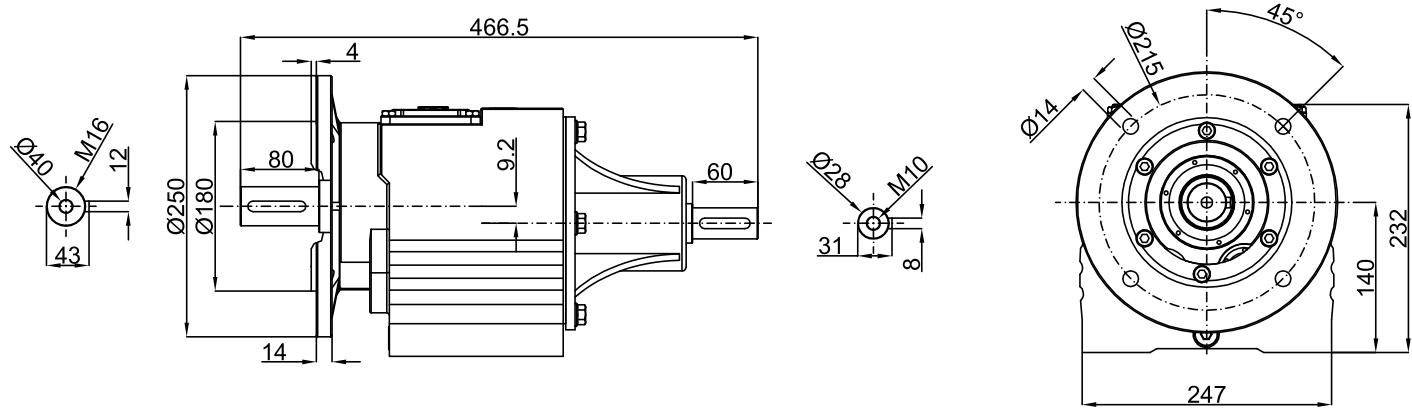


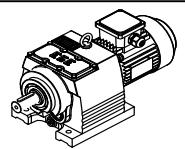


MTA372
MTA373

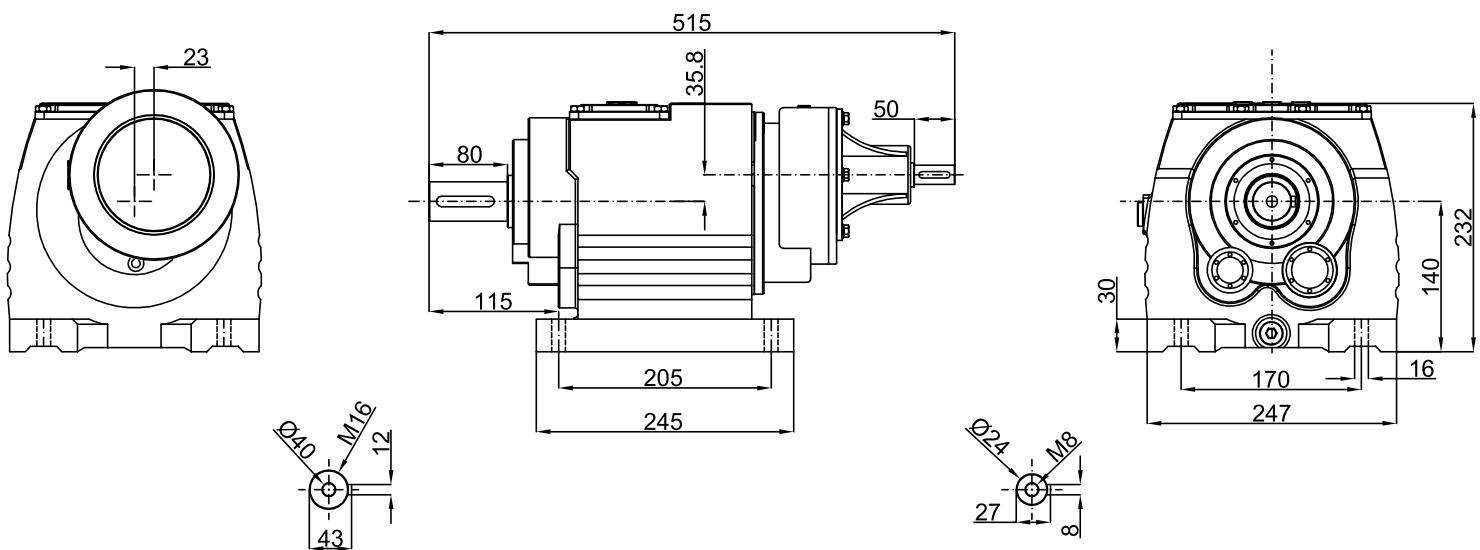


MTF372
MTF373

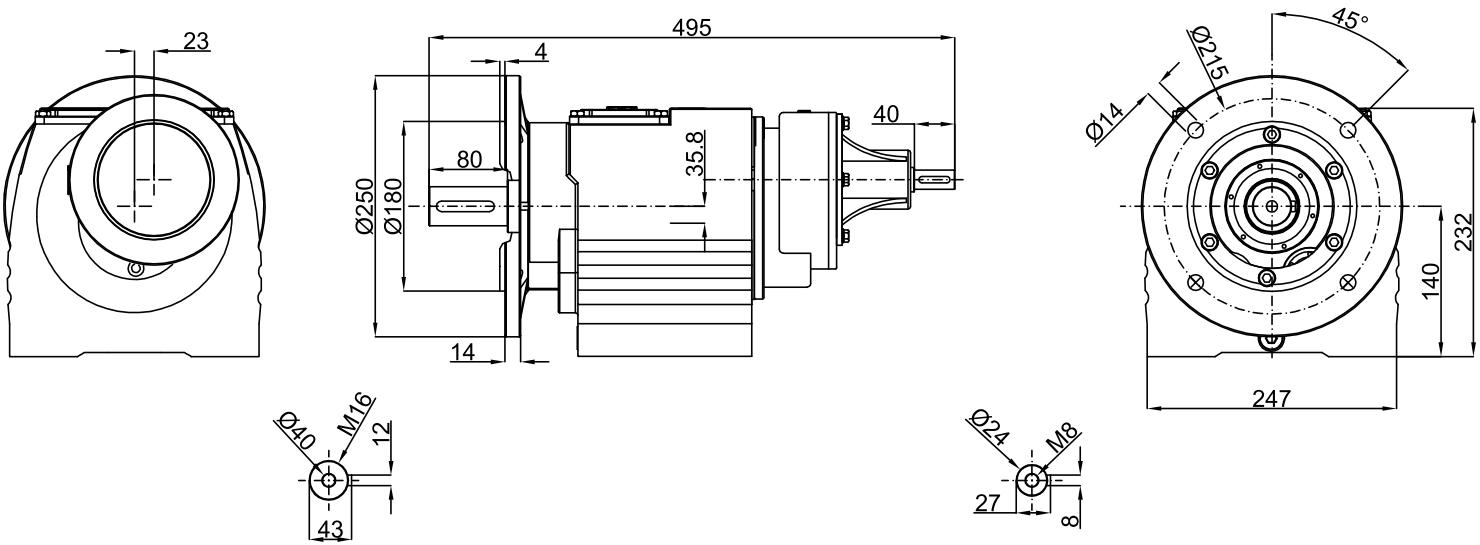


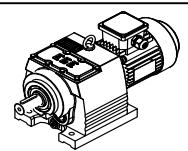


MTA374

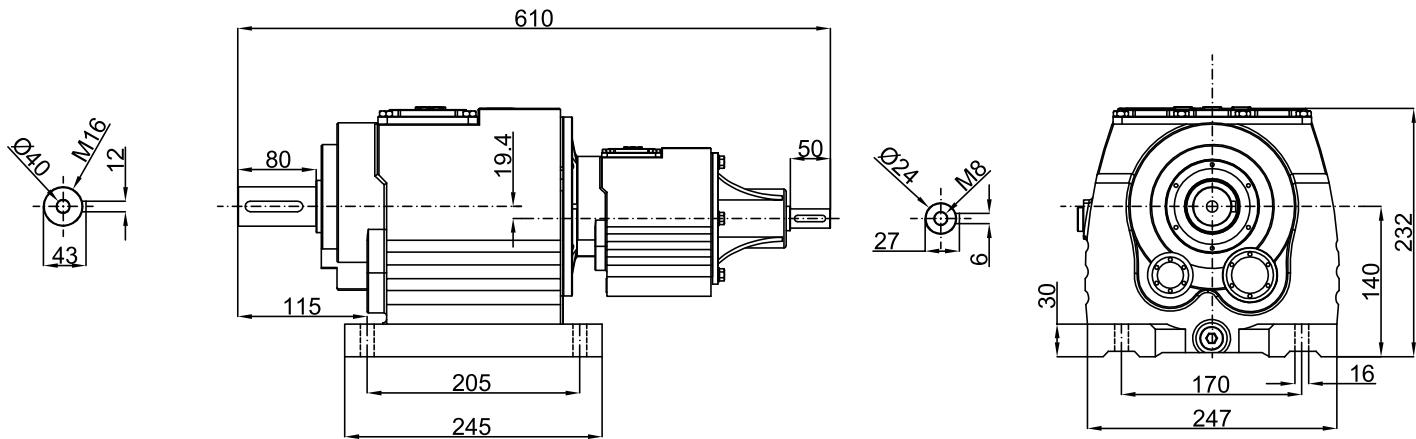


MTF374

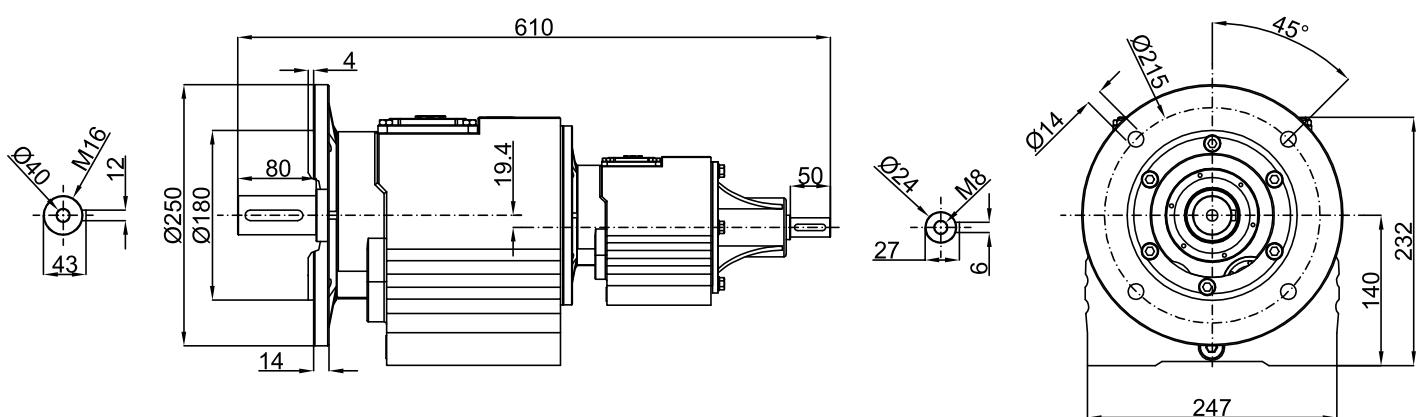


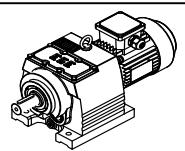


MTA375
MTA376

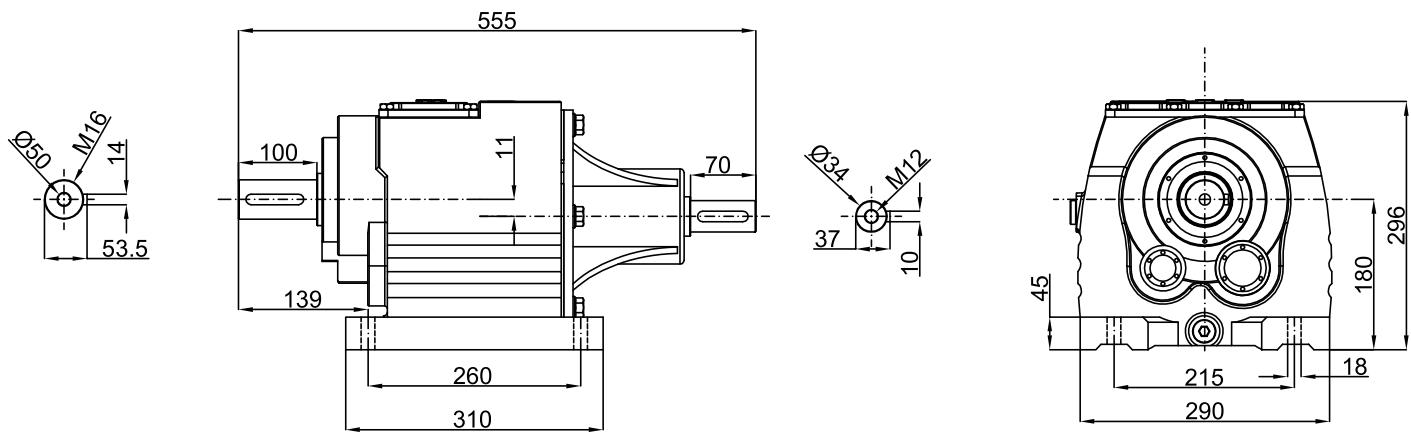


MTF375
MTF376

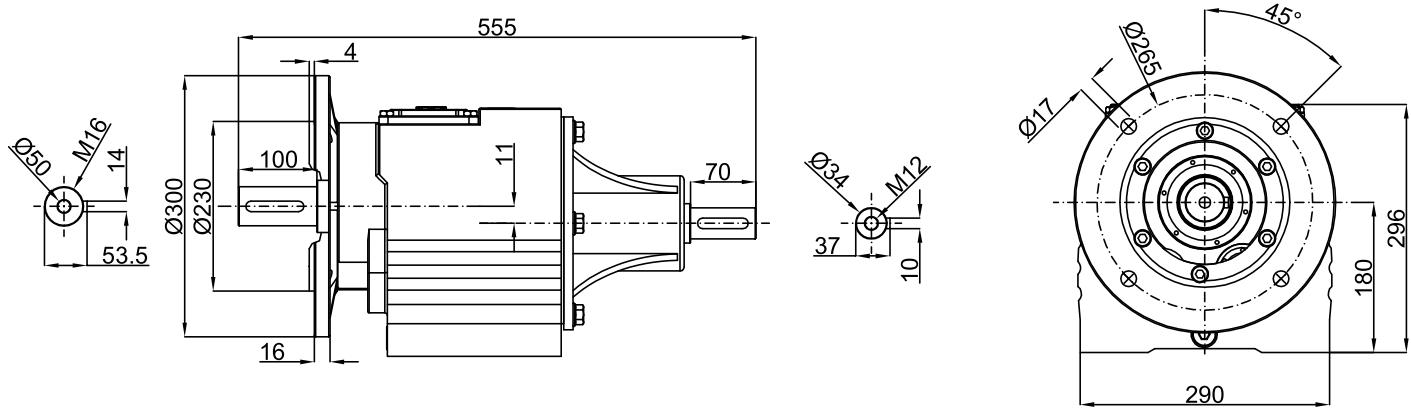


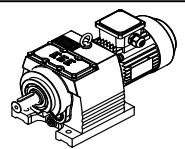


MTA472
MTA473

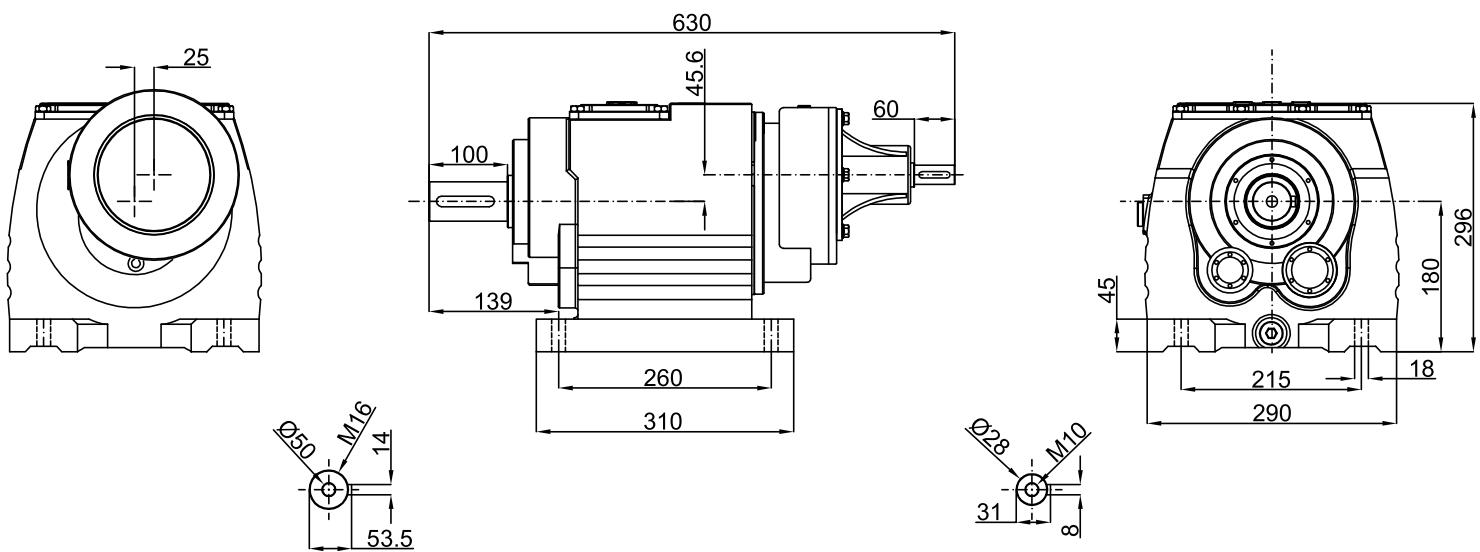


MTF472
MTF473

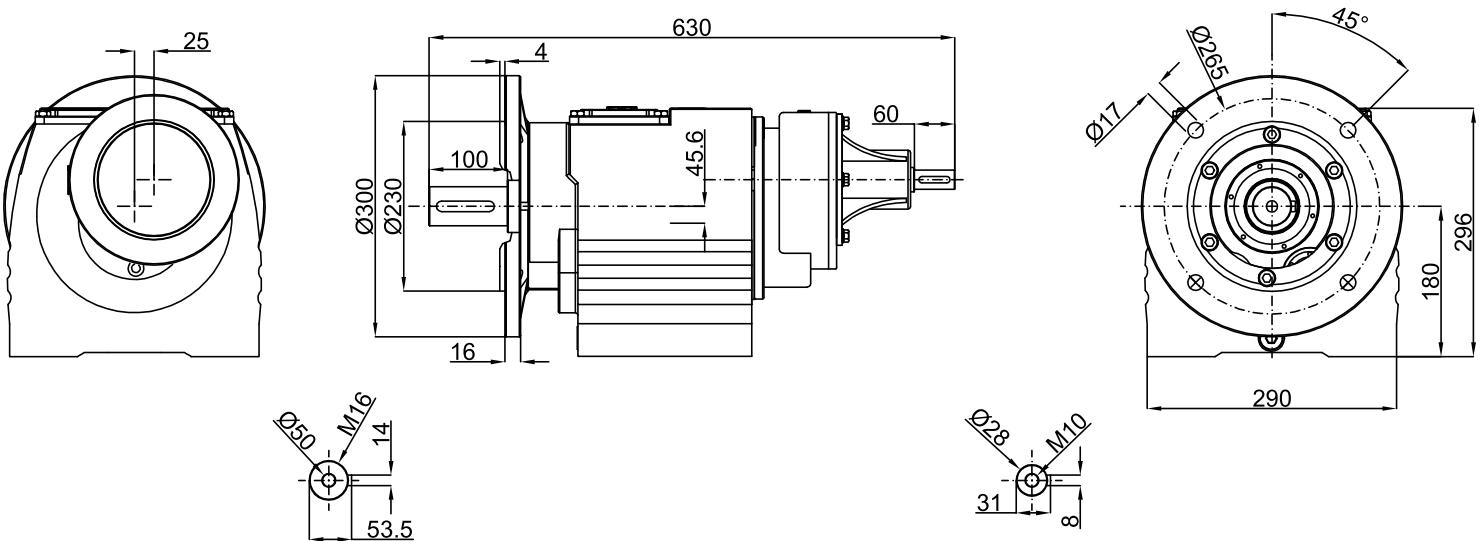


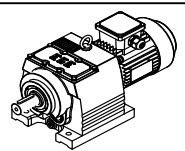


MTA474

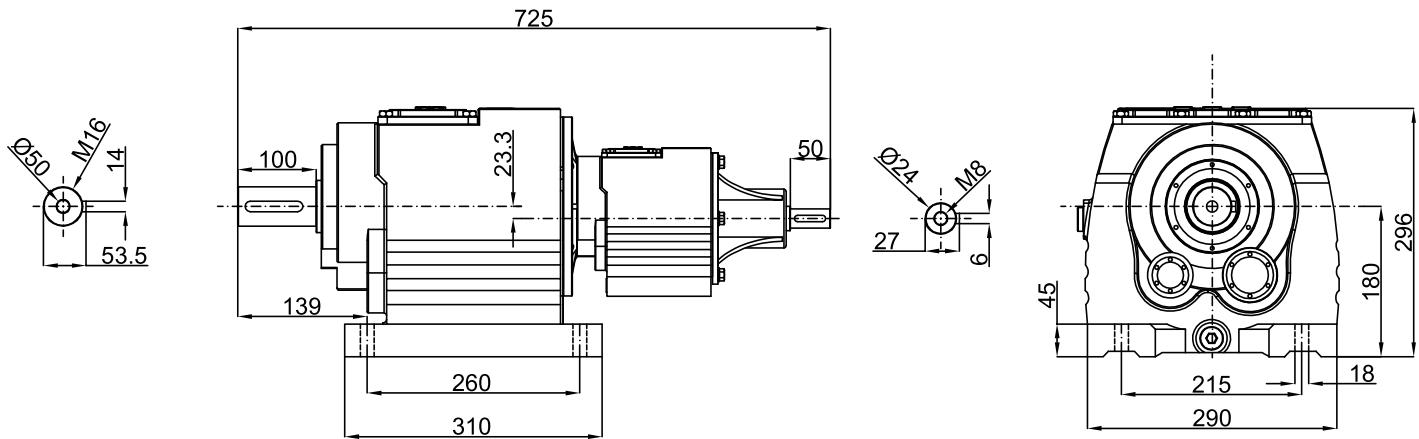


MTF474

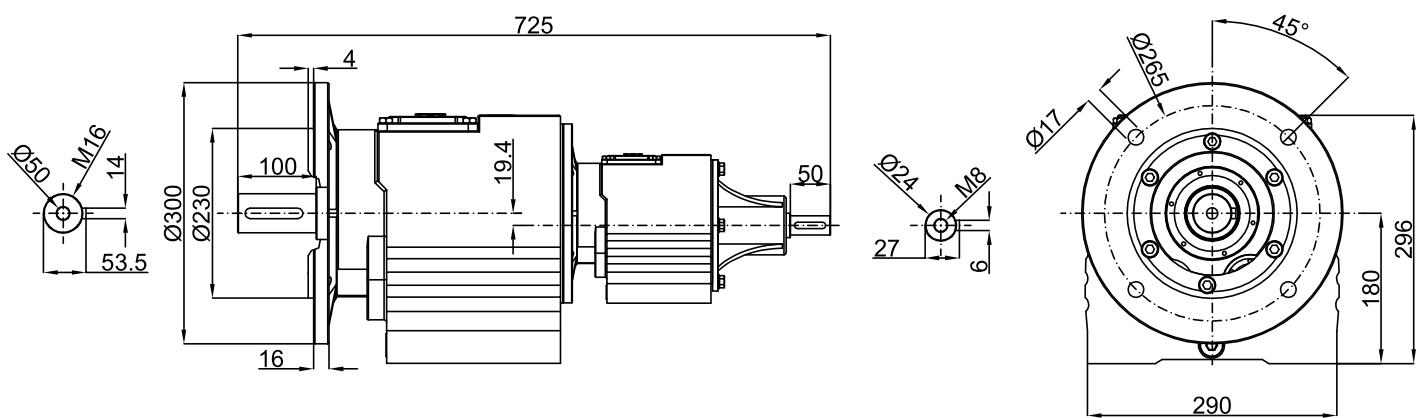


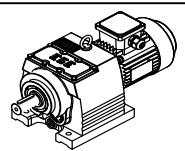


MTA475
MTA476

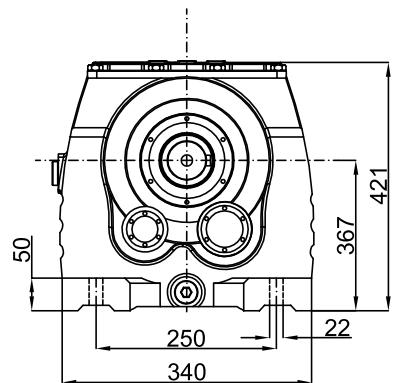
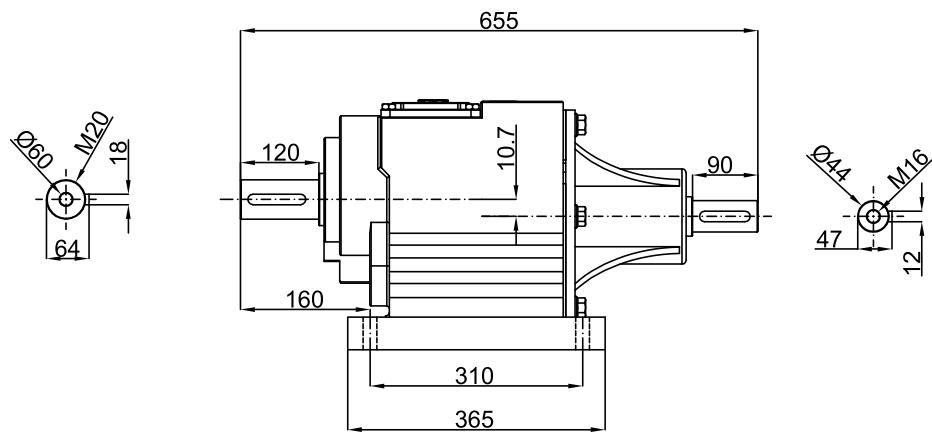


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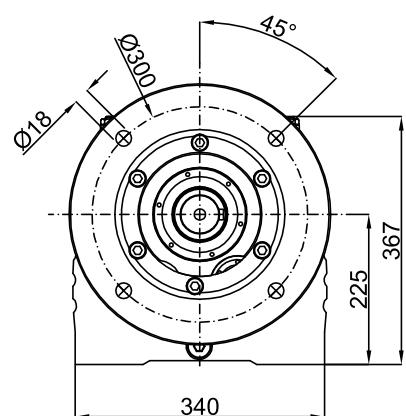
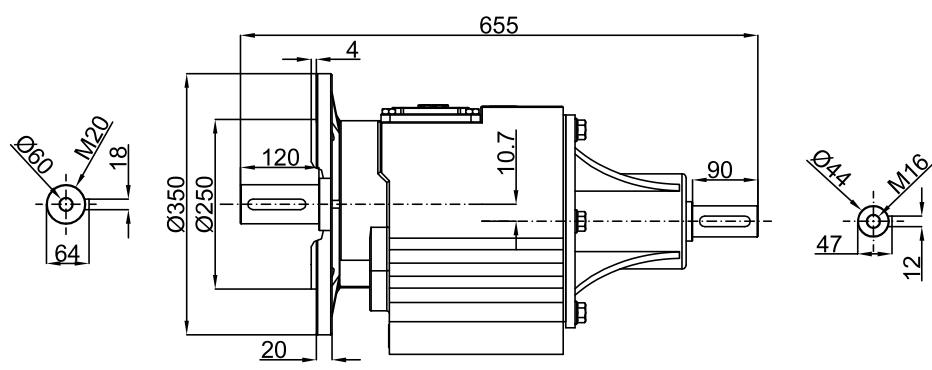


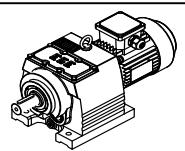


MTA572
MTA573

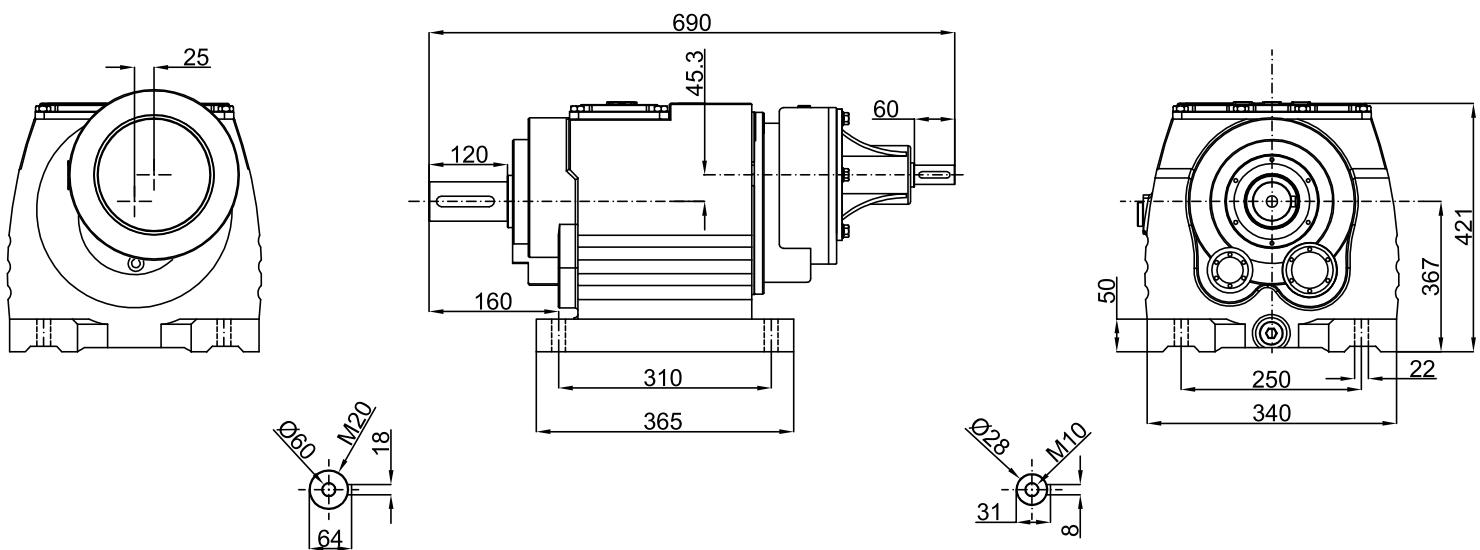


MTF572
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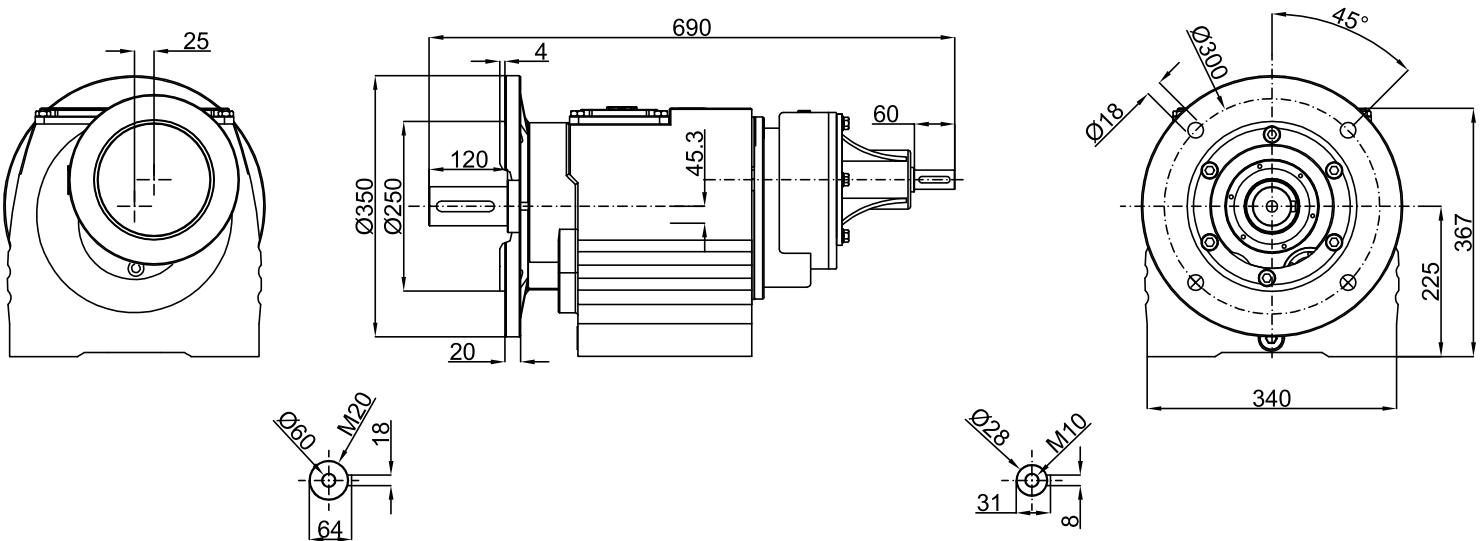


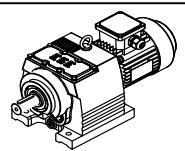


MTA574

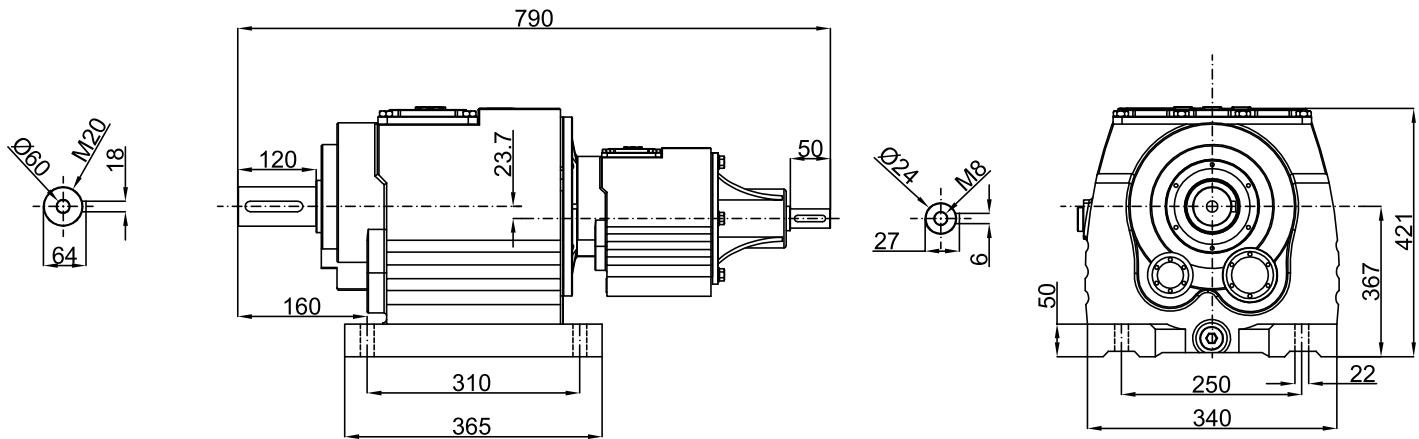


MTF574

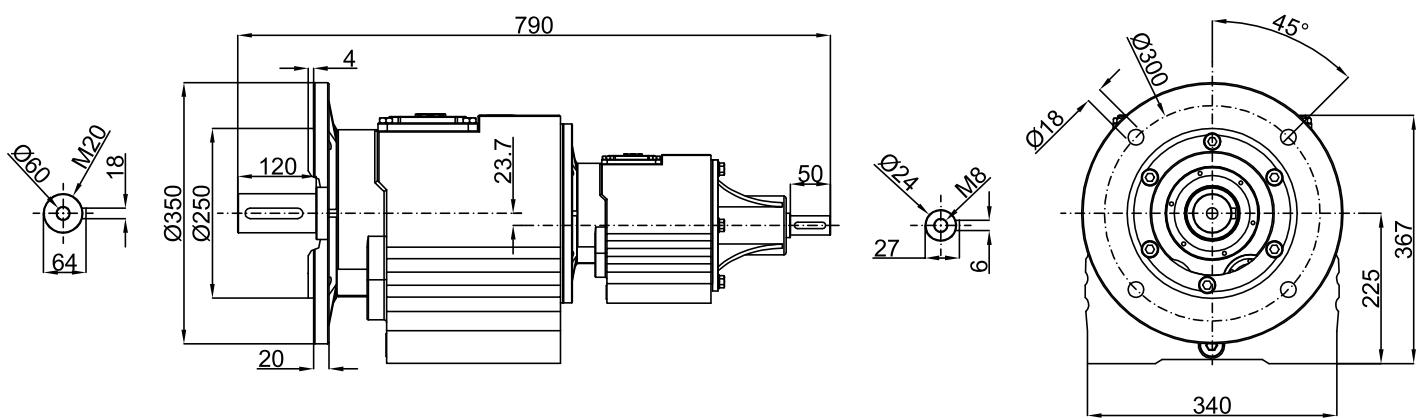


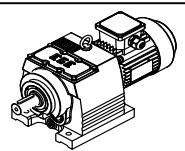


MTA575
MTA576

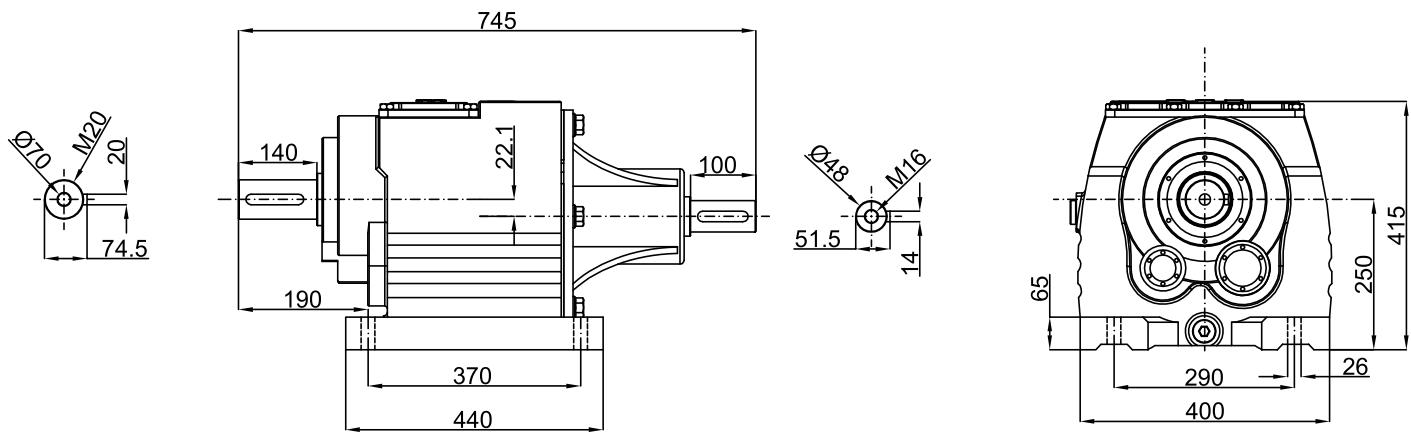


MTF575
MTF576

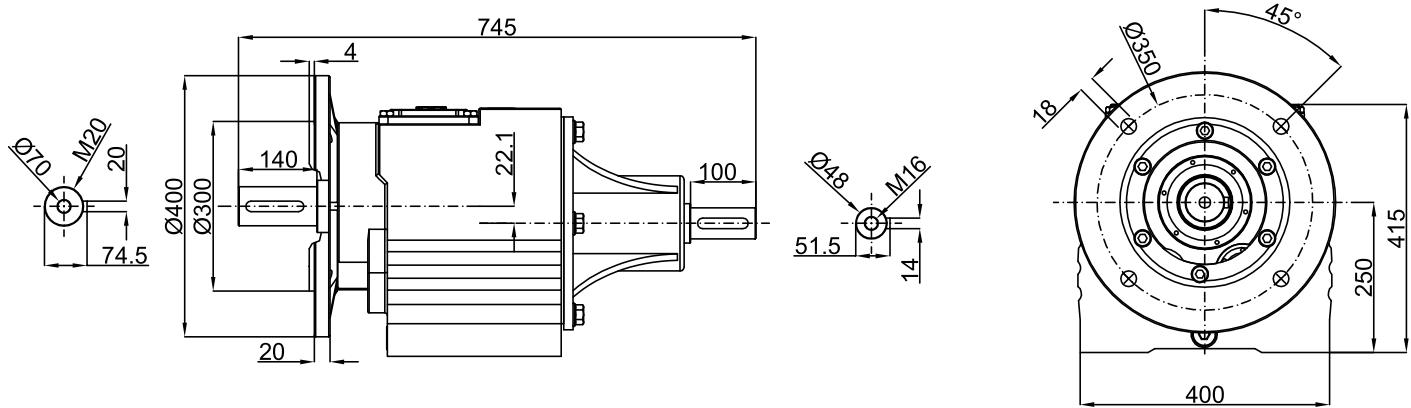


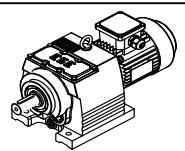


MTA672
MTA673

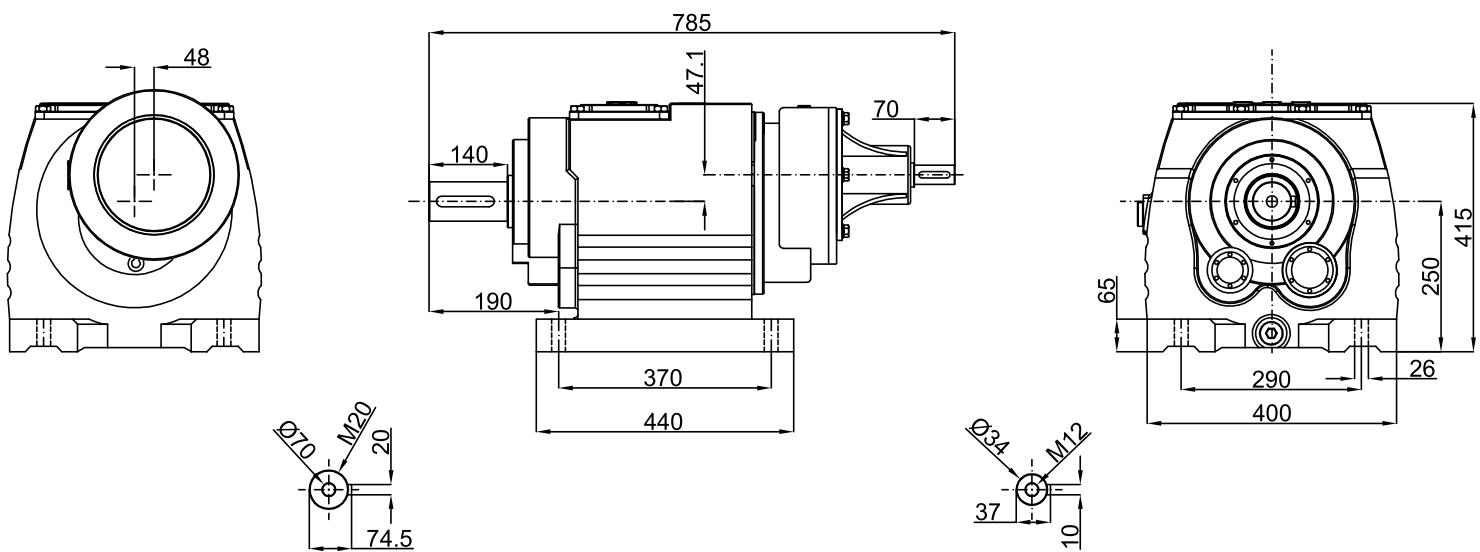


MTF672
MTF673

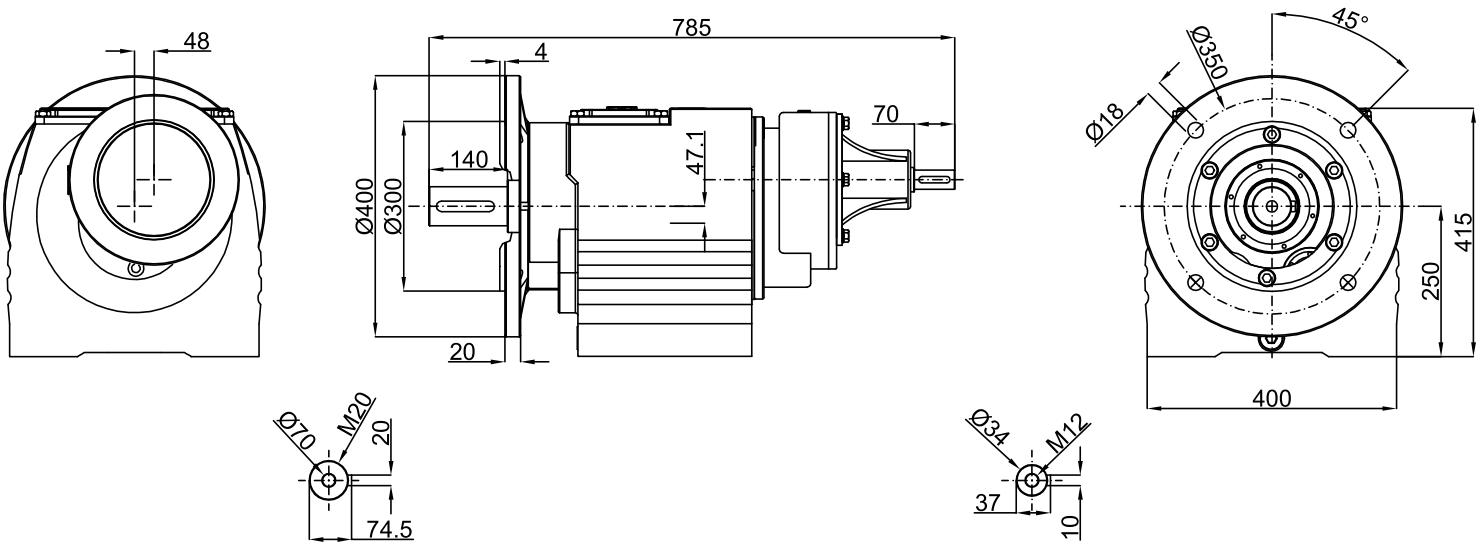


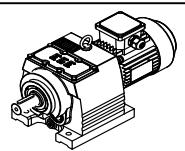


MTA674

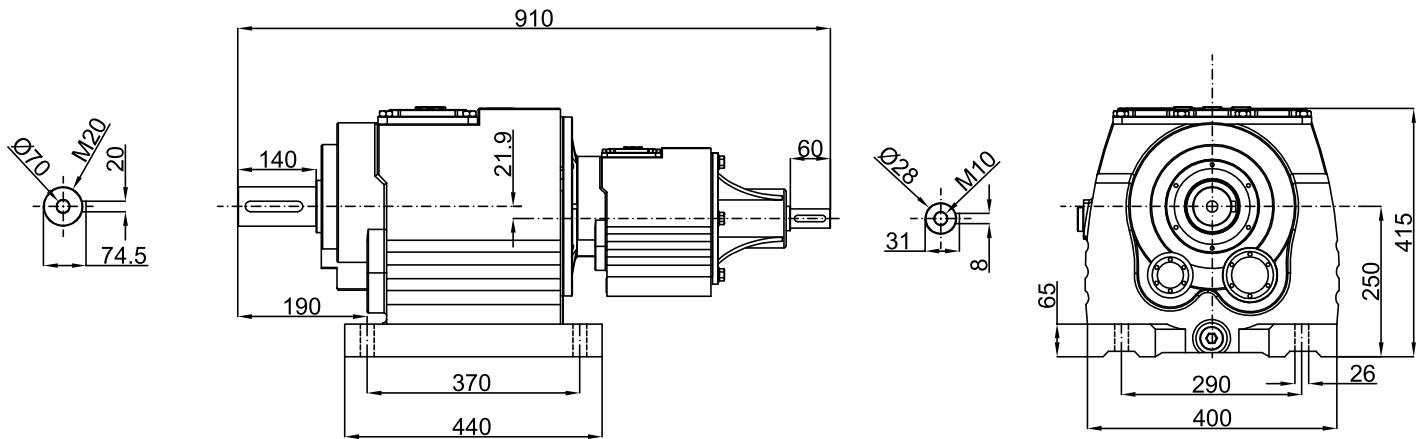


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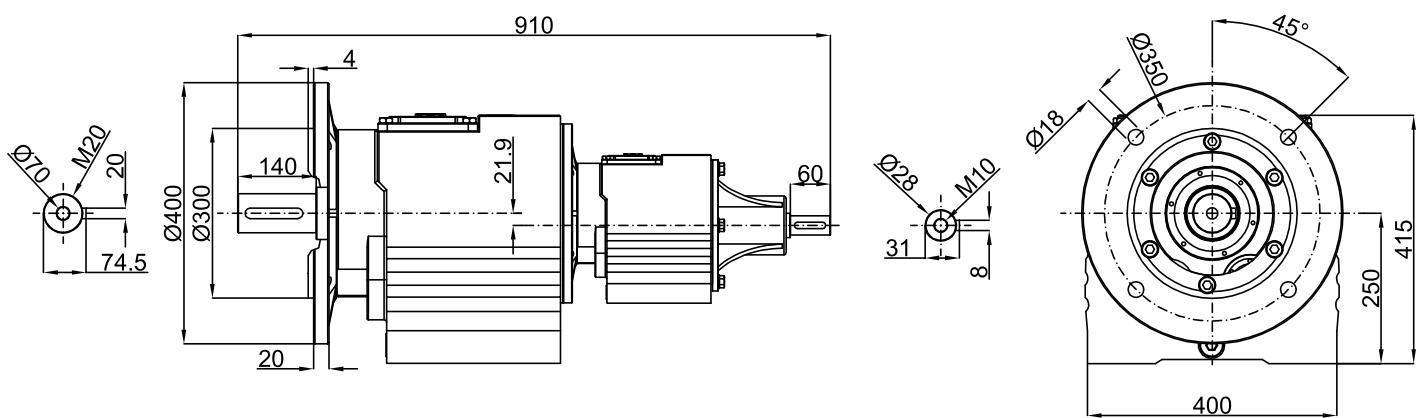


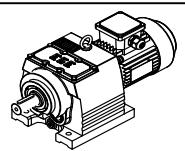


MTA675
MTA676

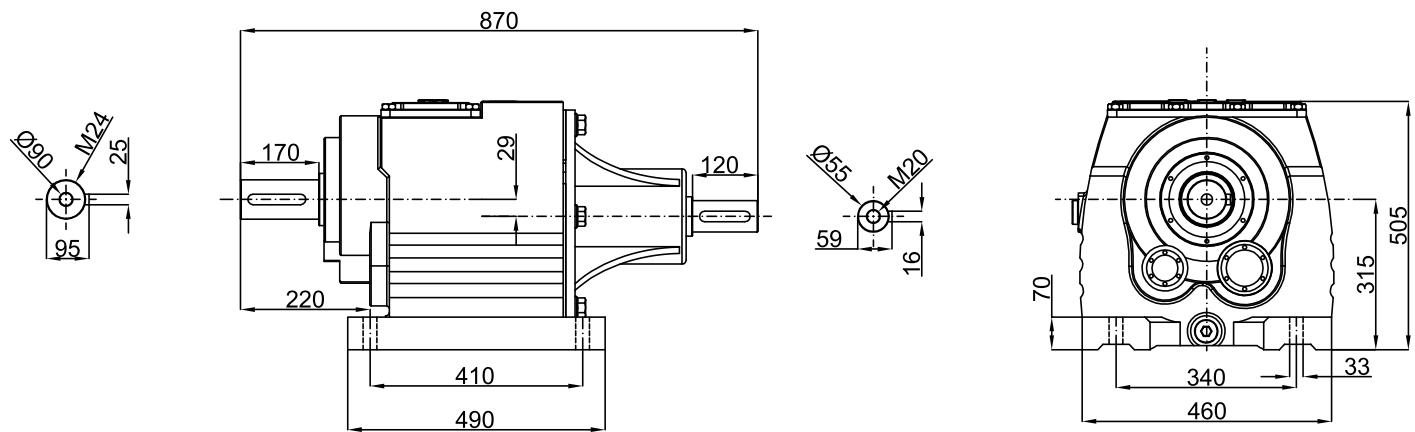


MTF675
MTF676

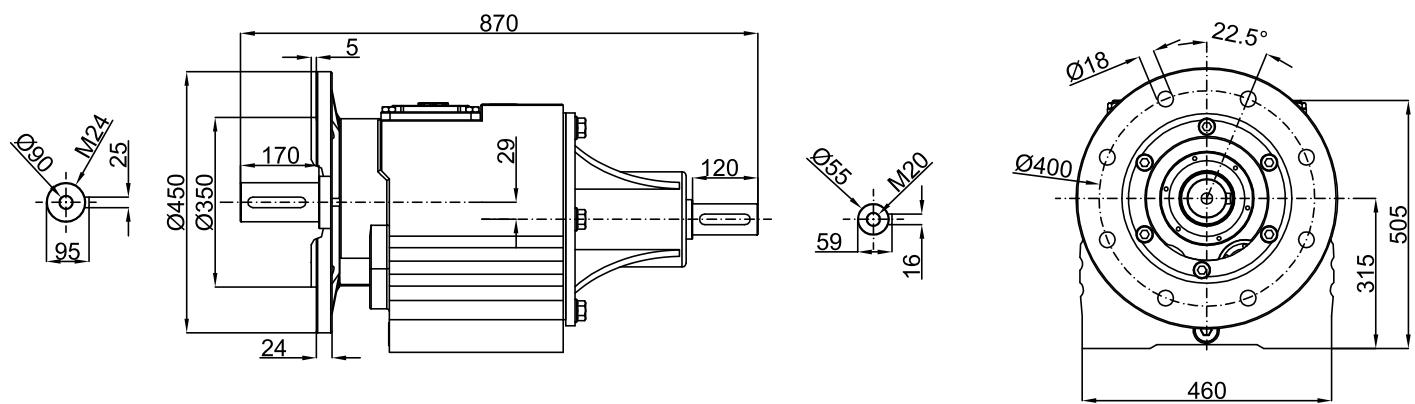


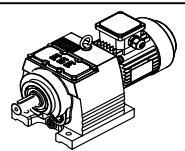


MTA772
MTA773

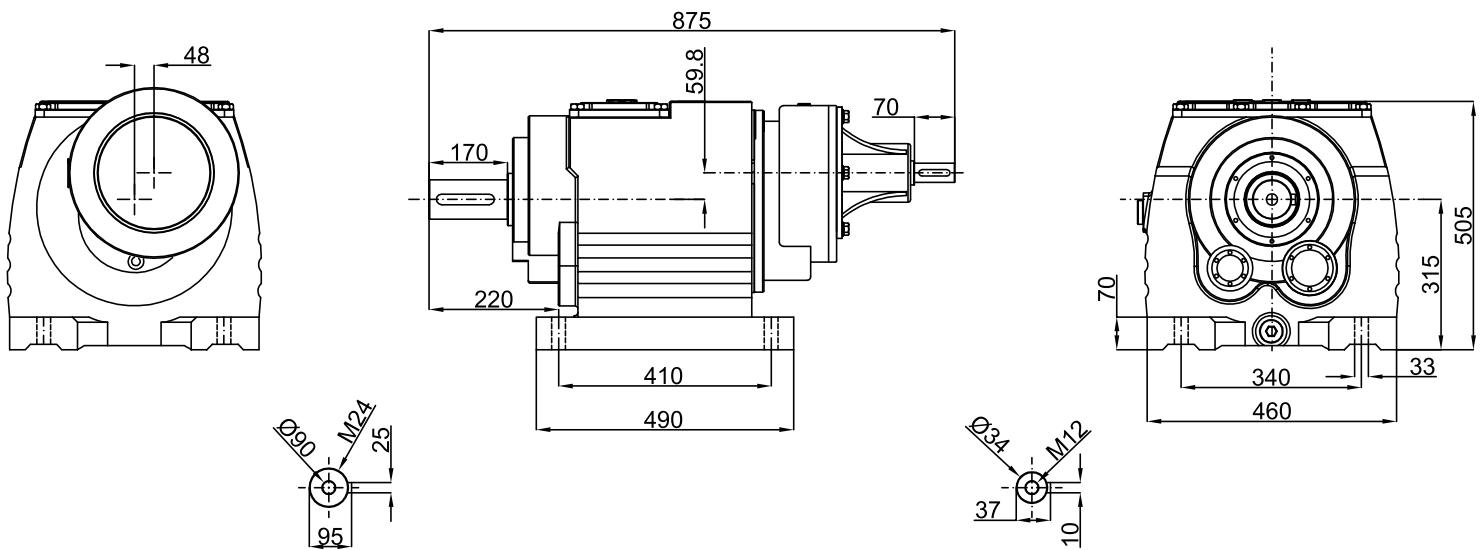


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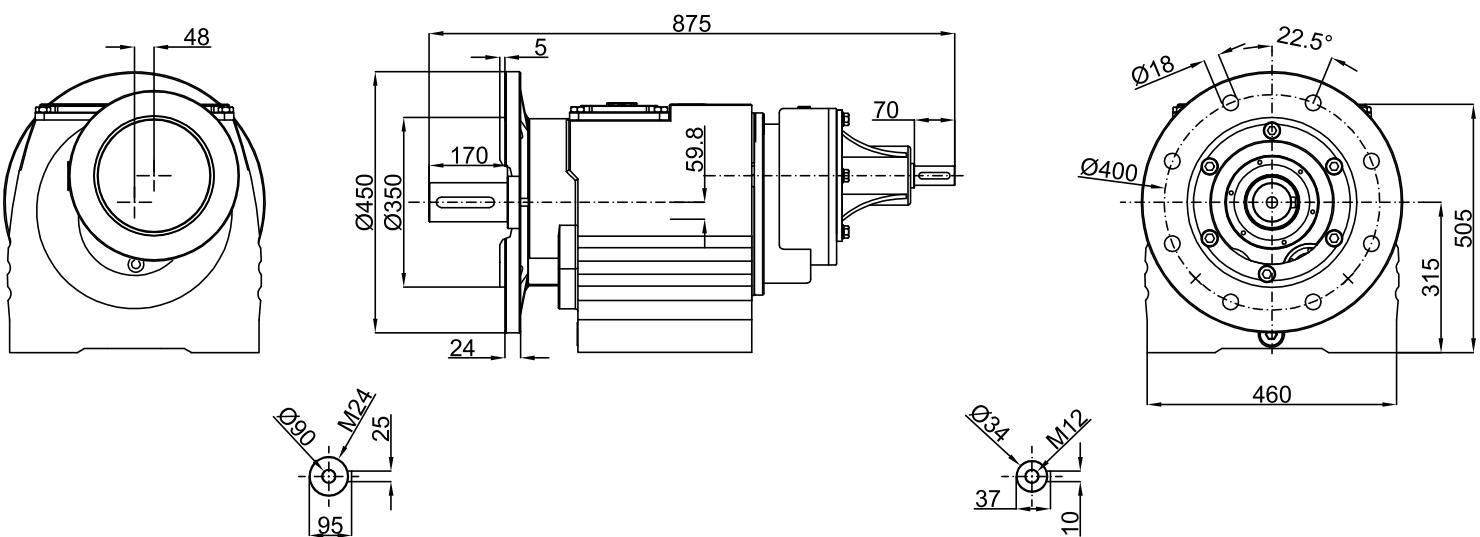


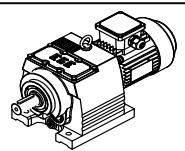


MTA774

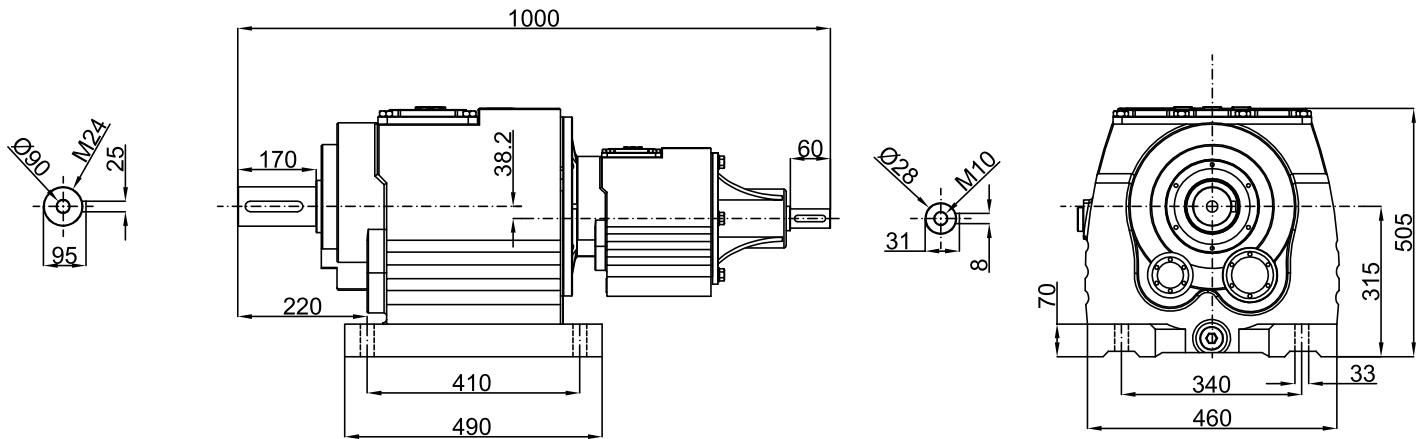


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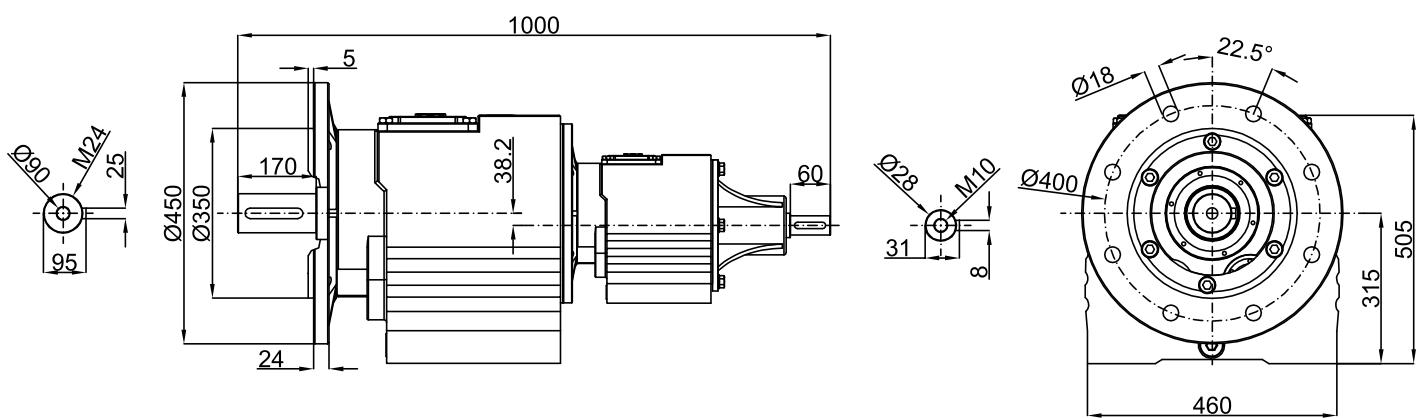


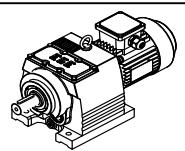


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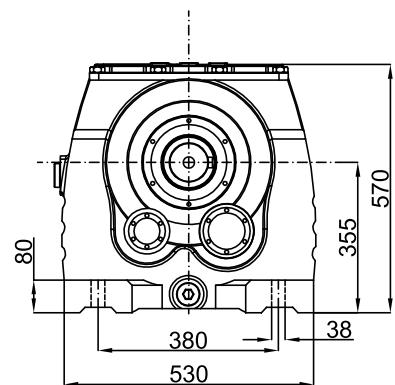
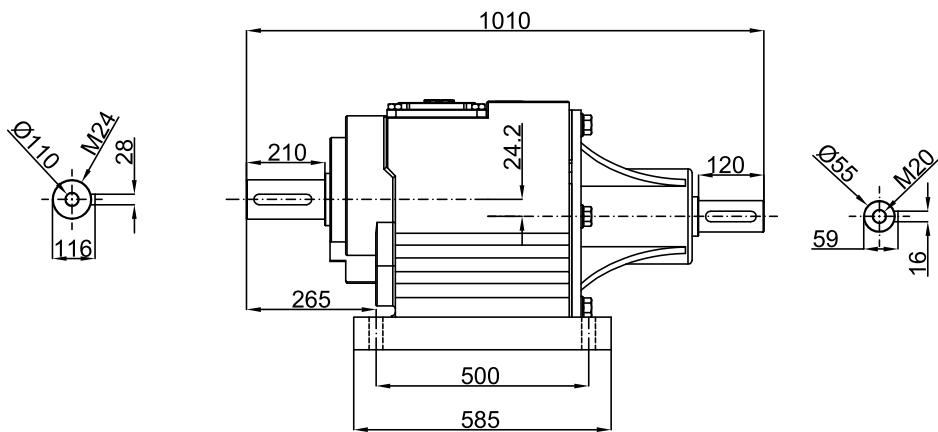


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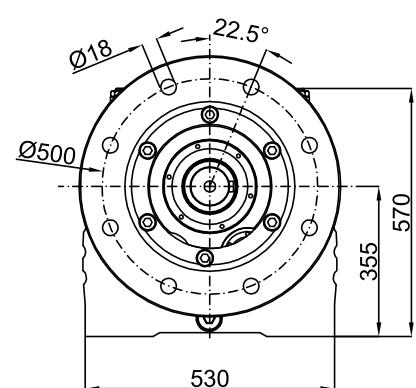
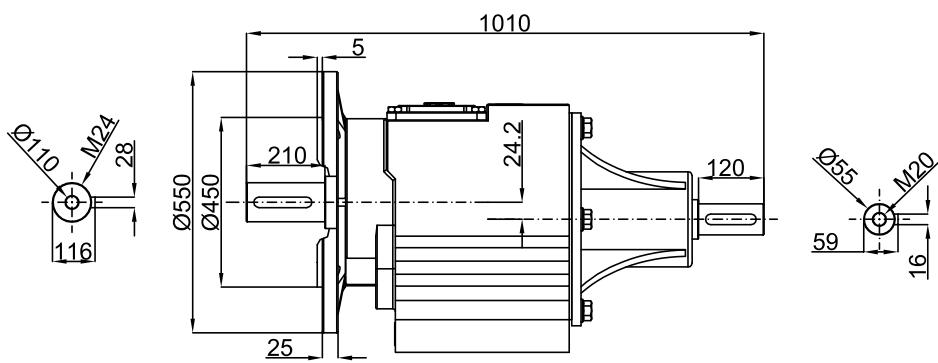


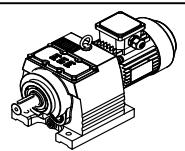


MTA872
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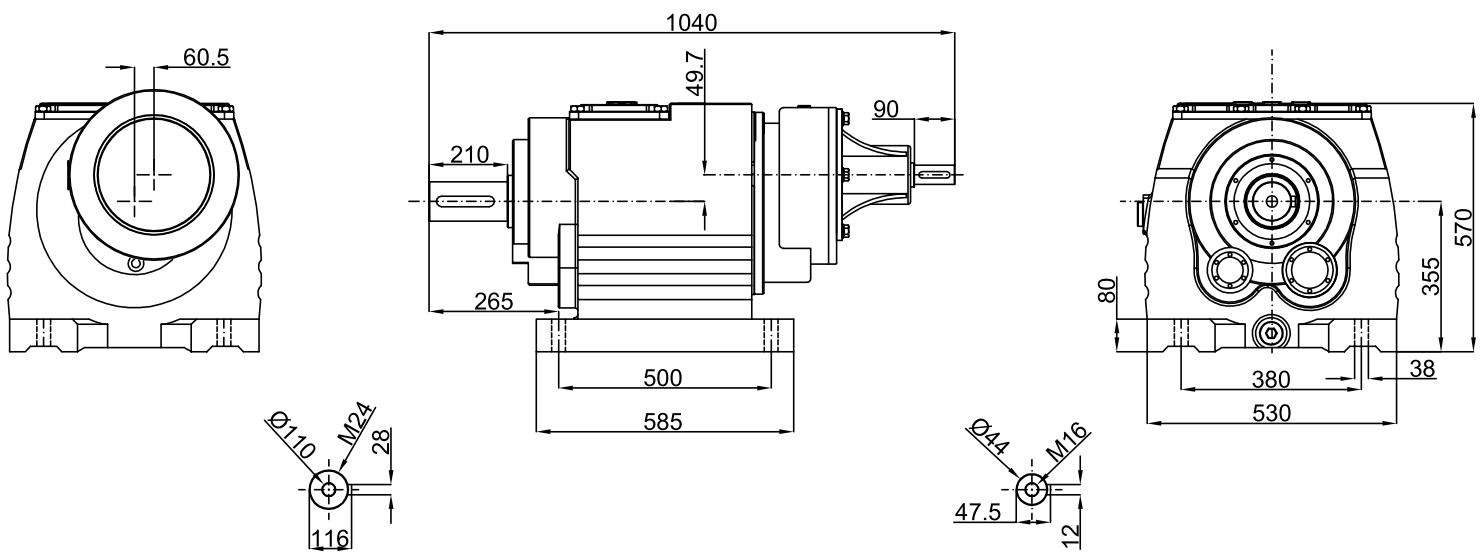


MTF872
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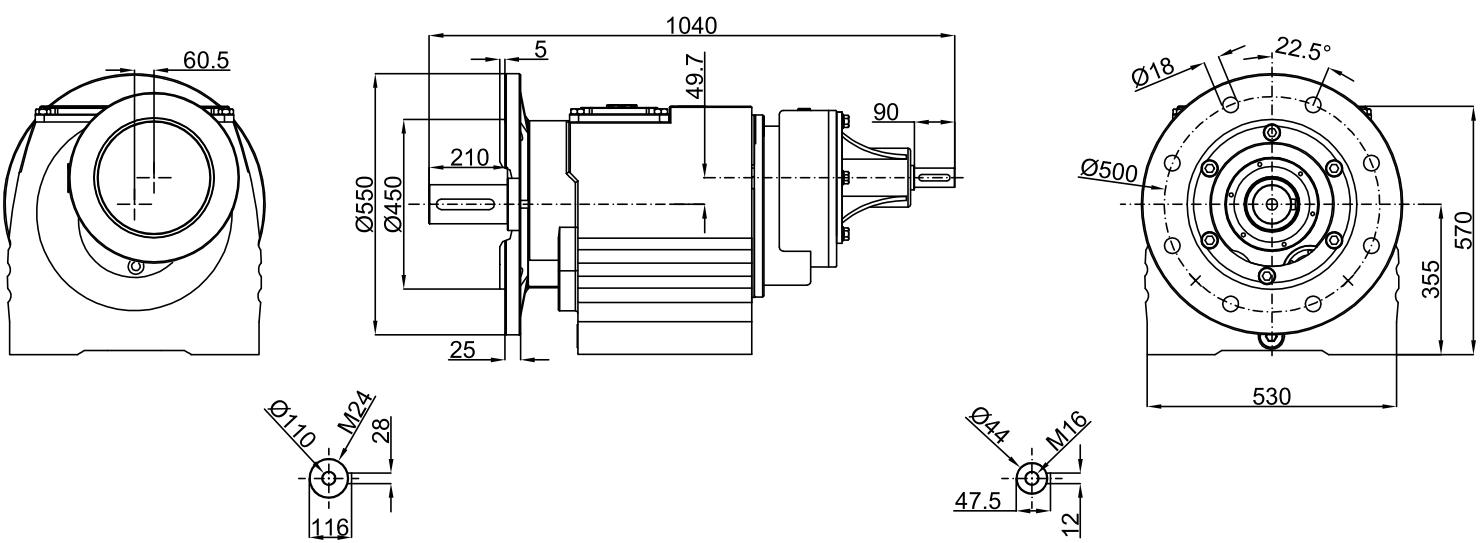


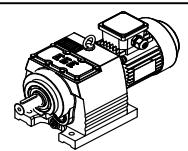


MTA874

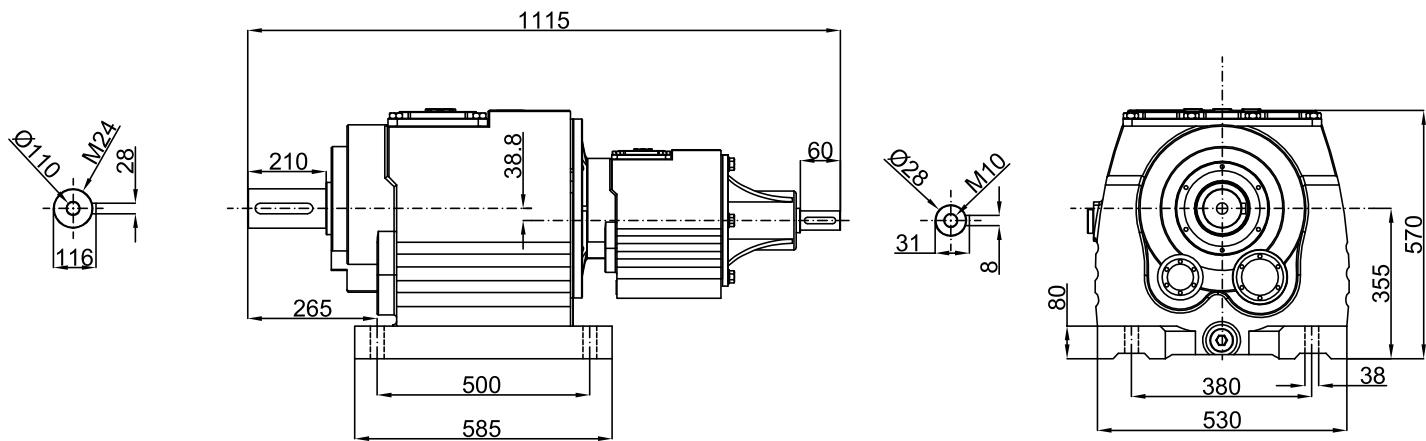


MTF874

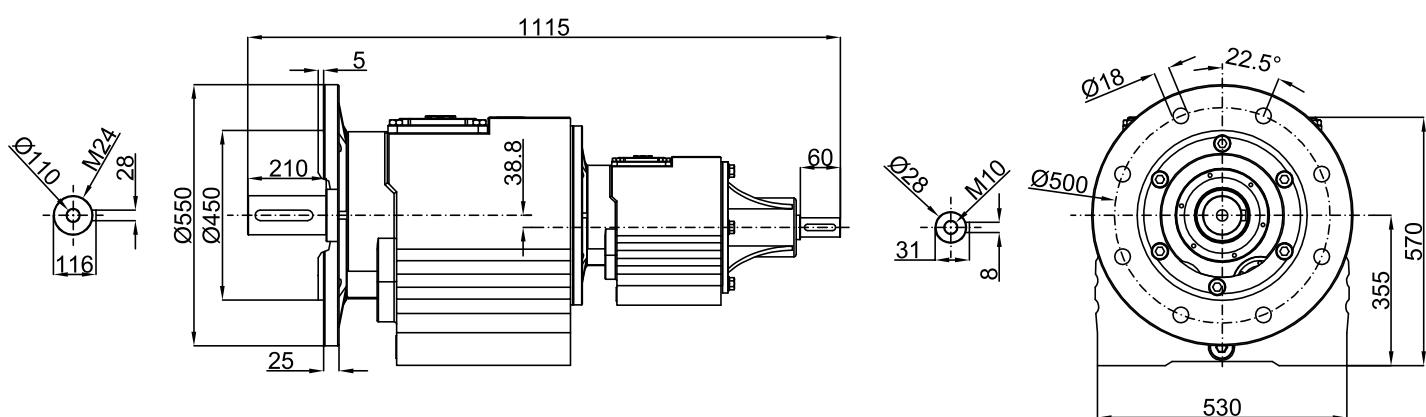


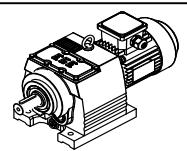


MTA875
MTA876

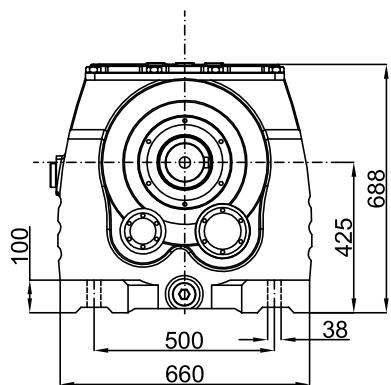
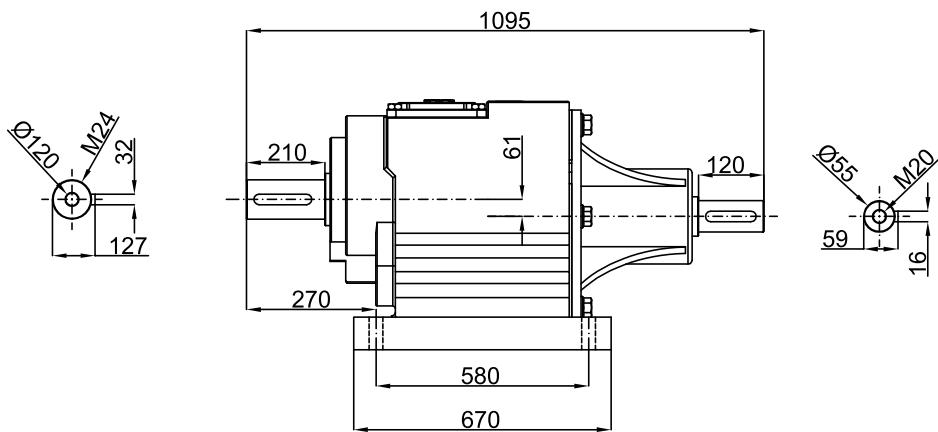


MTF875
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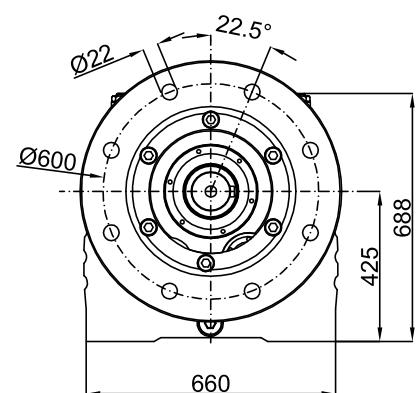
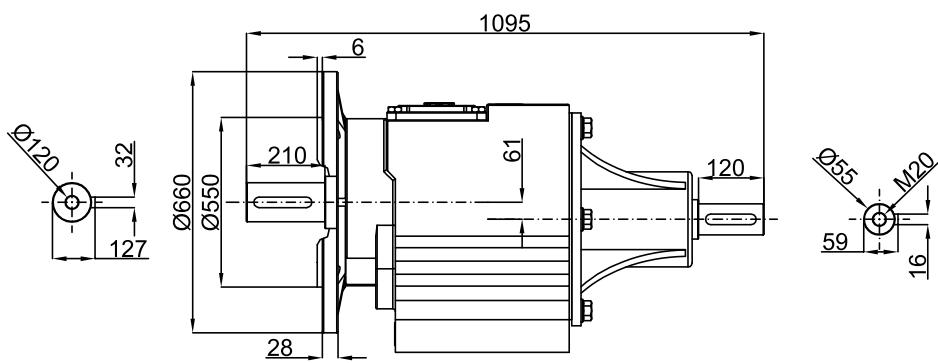


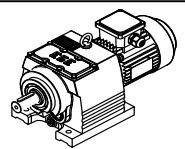


MTA972
MTA973

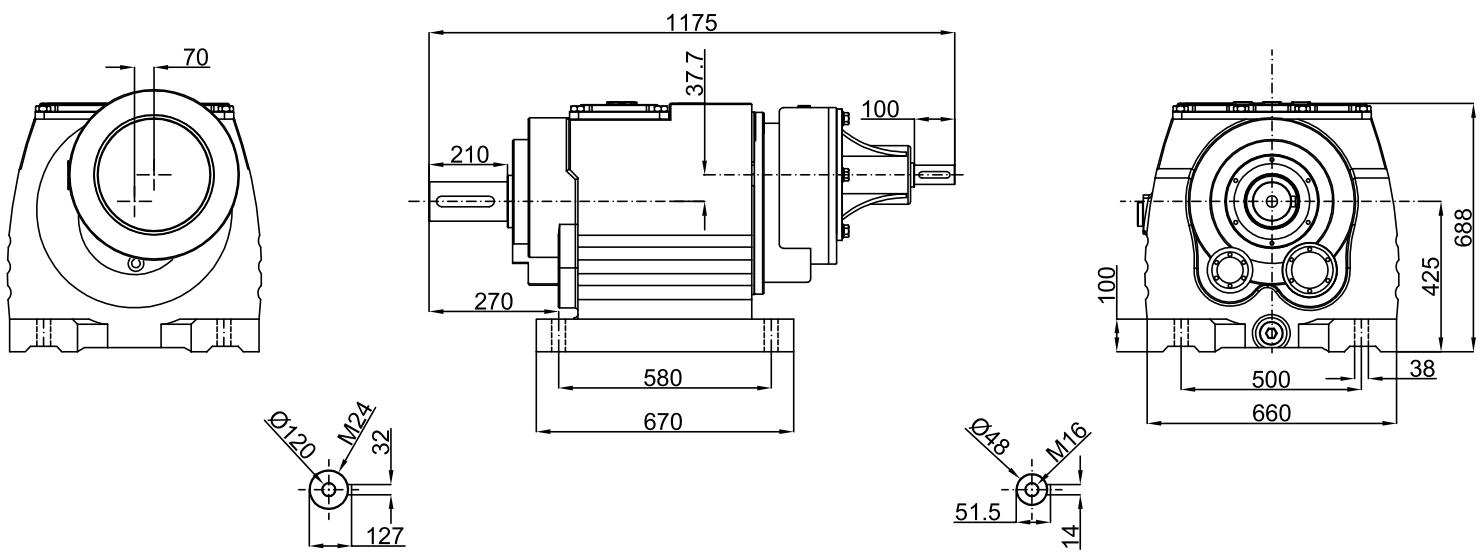


MTF972
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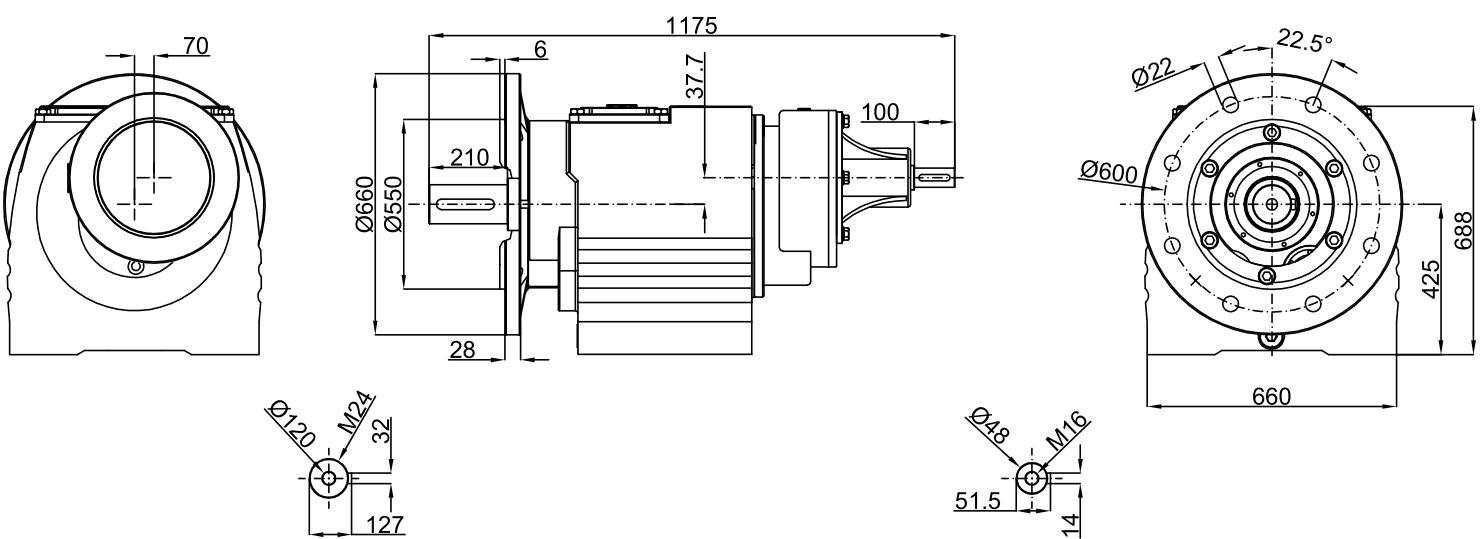


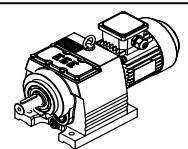


MTA974

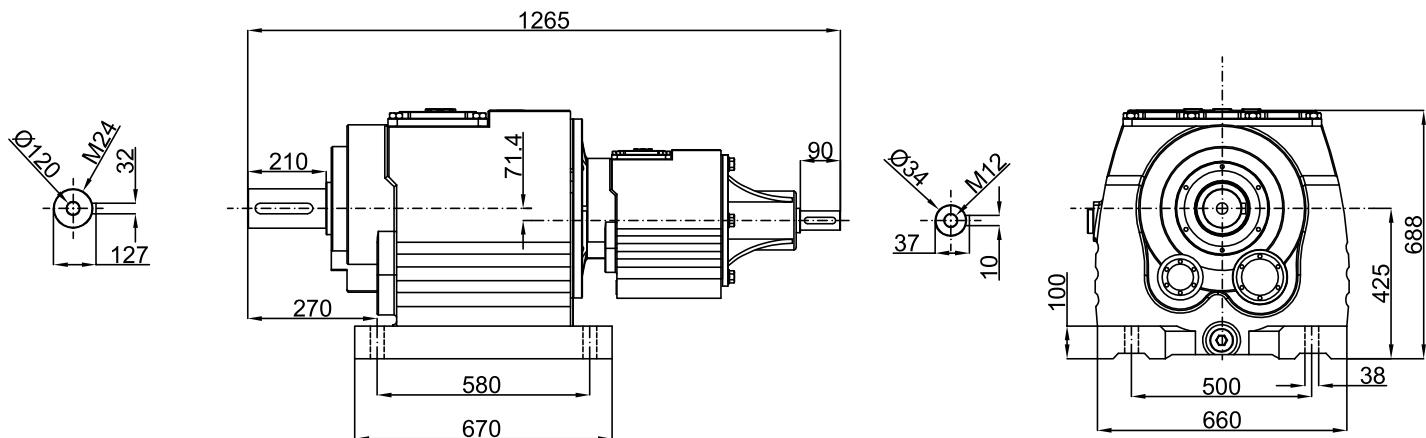


MTF974

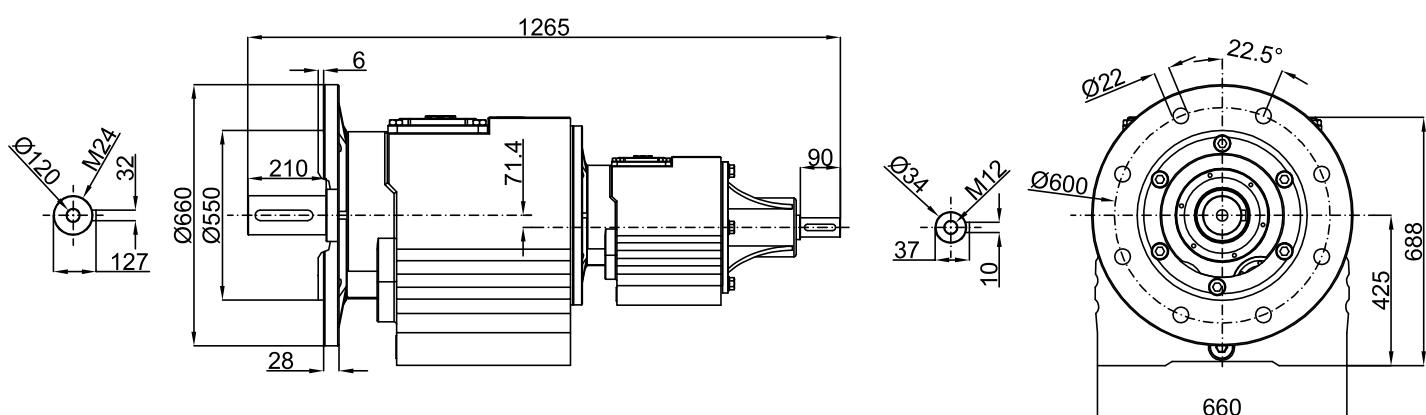




MTA975
MTA976



MTF975
MTF976



EGE REDÜKTÖR



Monoblok Redüktörler

Monoblock Gearboxes



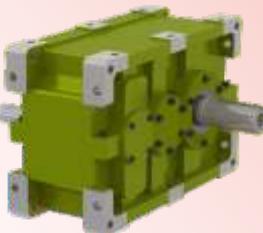
AR Serisi Delik Şaft Milli Tek Kademeli Redüktörler
AR Series Gearboxes With Hallow Shaft Axe One Transmission

EP Serisi Delik Şaft Milli 1-2 Kademeli Redüktörler
EP Series 1-2 Stage Helical Geared Gearboxes With Hallow Shaft



EK Serisi Yatık Paralel Milli Ekstruder Redüktörler
EK Series Horizontal Parallel Extruder Type Gearboxes

ED Serisi Delik Şaft Milli Monoblok Gövdeli Redüktörler
ED Series Helical Geared Gearboxes With Monobloc Body And Hallow Shaft



**K Serisi Yatık Paralel Milli
2-3-4 Kademeli Redüktörler**
K Series Horizontal Parallel Axle 2-3-4 Stages Gearboxes

**ERS Serisi Alüminyum Enjeksiyon Gövdeli
Sonsuz Vidalı Redüktörler**
ERS Series Worm Geared Gearboxes With Aluminium Injection Body



**ERS Serisi Döküm Gövdeli Sonsuz
Vidalı Redüktörler**
ERS Series Worm Geared Gearboxes With Cast Iron Body

EA Serisi Helisel Dişlili Redüktörler
EA Series Helical Geared Gearboxes



EGE REDÜKTÖR MAKİNE SAN. VE TİC. LTD. ŞTİ.

**EGE
REDÜKTÖR**

Tel: +90 236 313 94 26
Fax: +90 236 313 17 69
www.egereduktor.com
bilgi@egereduktor.com

CE
K.S.S 111 Sk. No:6
Turgutlu/Manisa/TÜRKİYE

