

BONENG

F 平行轴齿轮马达

F Parallel Shaft Gearmotor



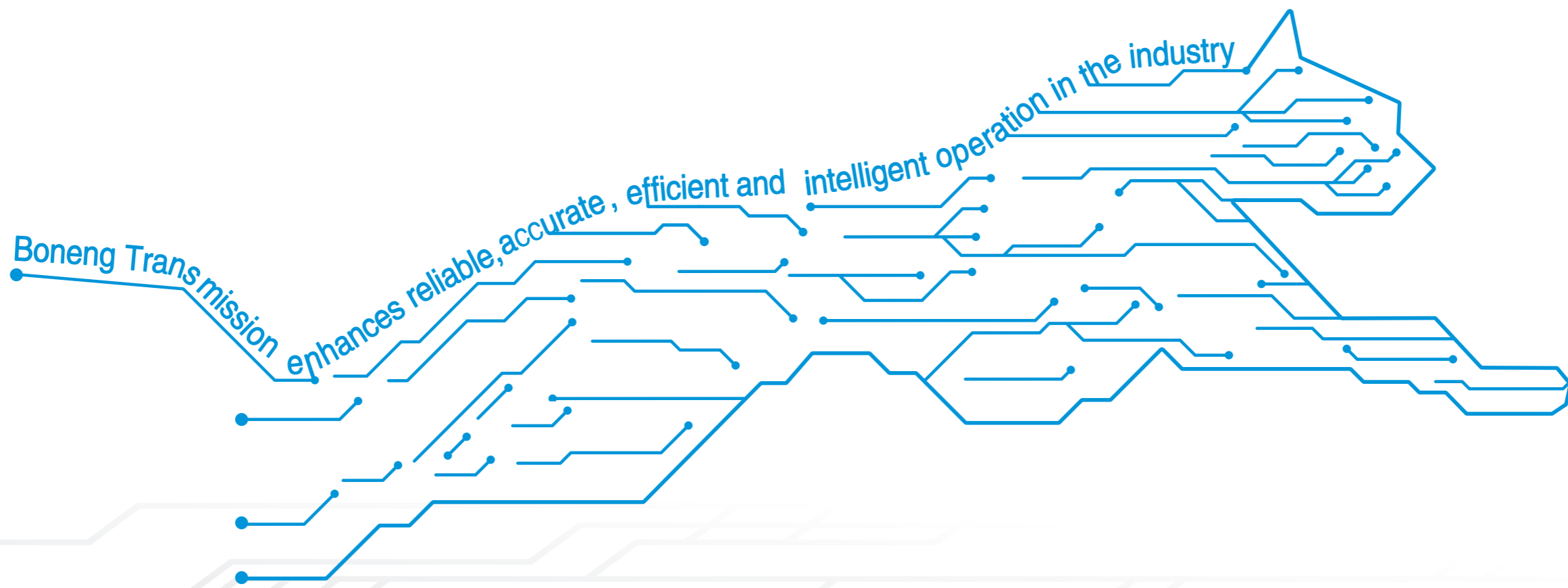
F 平行轴
齿轮马达

F Parallel Shaft
Gearmotor

Modified date 05/2026
Selection Sample C05.0034

BONENG

Boneng Transmission



控制器/驱动器/马达/
齿轮马达/齿轮箱

Controller/ Drive/ Motor/
Gearmotor/ Gearbox

F平行轴齿轮马达

- ◆ 灵活多变的模块化理念设计的低齿隙齿轮马达。
- ◆ 国际一流的拟生态外观设计，为您的品牌形象添彩。
- ◆ 小体积大中心距传动结构，拥有高10%的扭矩传递能力和抗载荷冲击性。
- ◆ 有限元优化铸造箱体，提高30%的运行稳定性，有效降低整机噪音。
- ◆ 大模数齿轮设计和增强型轴承配置保证产品更高的可靠性和更长的使用寿命。
- ◆ 高达95%的模块化设计，国际化生产，更加快捷的生产和物流周期。
- ◆ 更高的功率密度可为您节省设备安装空间，整体结构更加紧密。
- ◆ 高可靠性和长设计寿命可有效降低您的使用成本及维护成本。
- ◆ 多种输出及布置形式可满足150多种安装使用方式。

F Parallel Shaft Gearmotor

- ◆ Low backlash gearmotor designed with flexible and modular concept.
- ◆ Excellent ecological design adds luster to your brand image.
- ◆ Small size and large center distance transmission structure, with 10% higher torque transmission capacity and load shock resistance.
- ◆ The FEA design of the casting housing, which improves the running stability by 30% and effectively reduces the noise of the whole machine.
- ◆ The large-modulus gear design and enhanced bearing arrangement ensure higher reliability and longer service life.
- ◆ Up to 95% modular design, international production, faster production and logistics cycles.
- ◆ Higher power density can save you mounting space and the overall structure is more compact.
- ◆ High reliability and long design life can effectively reduce your use and maintenance costs.
- ◆ A variety of output and assemblies can meet more than 150 mounting cases.



产品广泛应用于港口、起重、电力、采矿、水泥、造纸等各个领域。

博能传动公司总部和各大区域的技术专家以及各区域办事处的应用工程师、售后服务技师竭诚为您提供全面的技术咨询和完善的服务。

Products are widely used in Port, Crane, Power, Mining, Cement, Paper and other fields.

Boneng Transmission company headquarters and major regional technical experts and regional offices of the application engineers, after-sales service technicians dedicated to provide you with comprehensive technical advice and perfect service.

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注意事项:

- ◆ 样本中的结构示意图、外形图及其他附图只属范例，无严格比例要求。（未注尺寸单位均为mm）。
- ◆ 所注重量仅为平均值，并不具有约束力。

⚠️ 必须严格遵守以下各项:

- ◆ 为防止意外事故发生，所有旋转部件均按照使用者所在国家和地区的安全规范由购置方加罩保护。
- ◆ 试车之前必须认真阅读使用说明书。
- ◆ 齿轮马达在供货时已处于准运行状态，运行前需加注润滑油。
- ◆ 本样本中注油量只作为参考值，实际注油量应以油镜上的标记为准。
- ◆ 润滑油粘度应按齿轮马达使用工况及使用环境温度选取。
- ◆ 推荐采用知名品牌的润滑油。

Note:

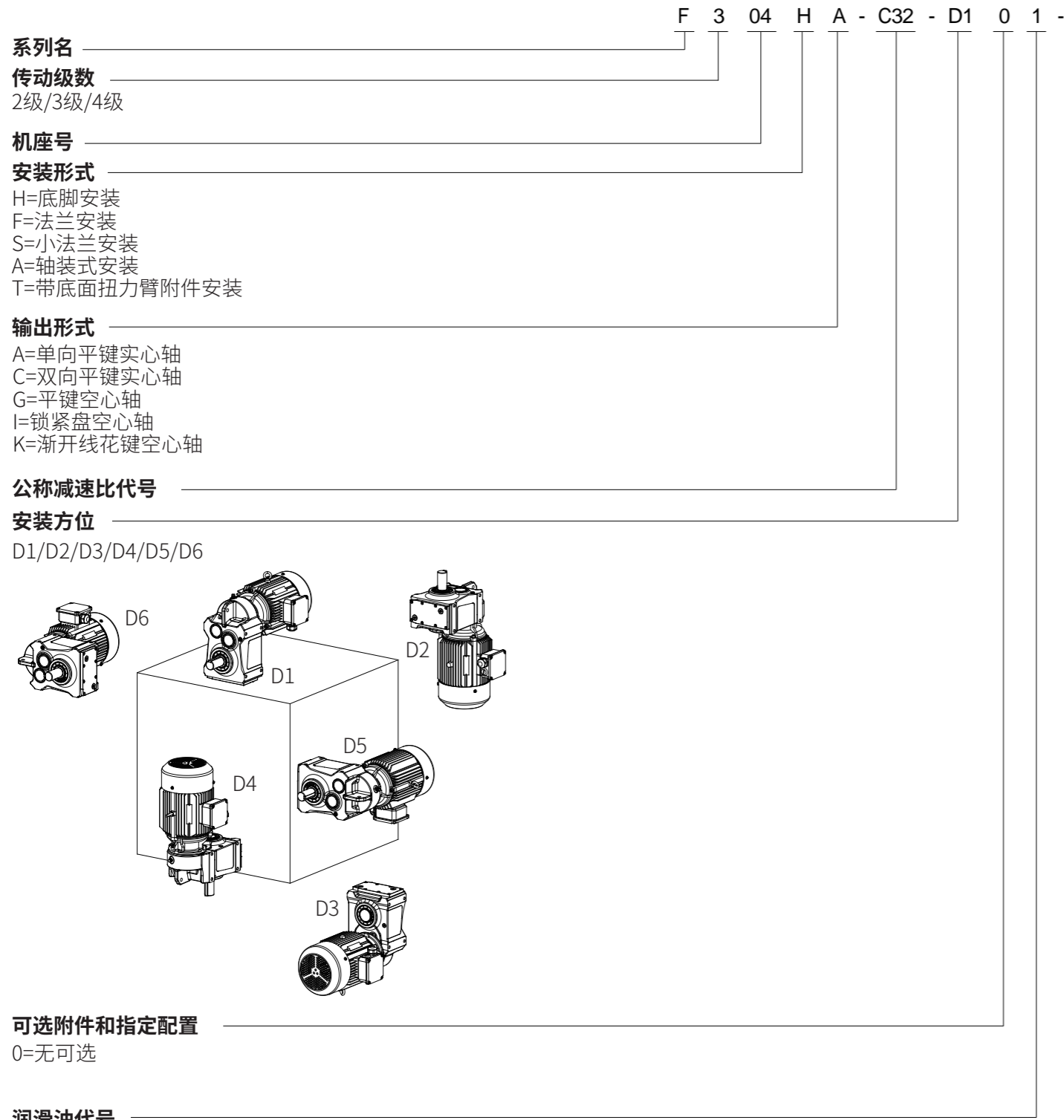
- ◆ The structure scheme, appearance diagram and other attached diagrams in sample are examples, there is no strict proportion requirement. (The unmarked dimension units are mm).
- ◆ The marked weight is average value, it has no constraint force.

⚠️ You must conform to the following instructions:

- ◆ To prevent accidents, all the rotation parts are added with protective covers according to the safety regulations of the nation and region.
- ◆ Before debugging, you should carefully read instruction book.
- ◆ Gearbox is on running-permission status when delivered, you should add lubrication oil before putting it into running.
- ◆ The marked oil quantity in sample is only reference value, actual oil filling quantity should be the same with the mark on oil immersion lens.
- ◆ Lubrication oil viscosity should be selected according to working situation and application environment temperature of gearmotor.
- ◆ You can only apply lubrication oil of internationally famous brand.

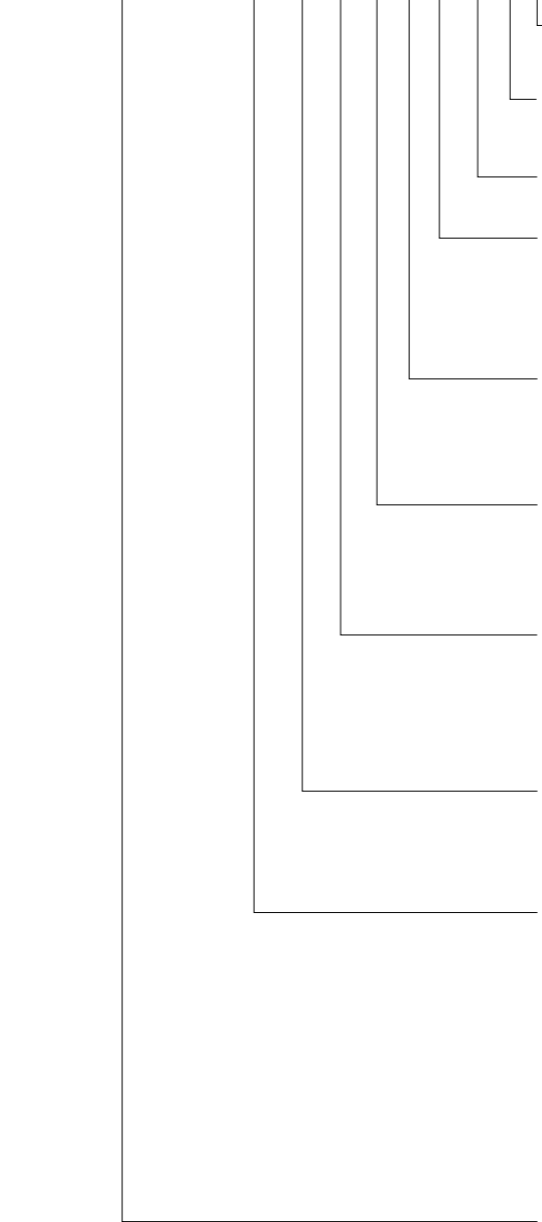
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1 型号表示方法



- ◆配IEC马达输入法兰的齿轮箱型号示例:F308HA-C32-D101-AP112
- ◆配NEMA马达输入法兰的齿轮箱型号示例:F308HA-C32-D101-AN145
- ◆配输入轴的齿轮箱型号示例:F308HA-C32-D101-AE3

MP132M4B55AC 3-A 0 N 0 0-0 1 1



马达接线盒和进线孔位置 (视角:马达尾部)

整机标配颜色, 满足C2低腐蚀环 (RAL5015) 境, 干膜总厚度80-100µm

0=标准配置 1=带防雨罩 J=带金属接头 K=带金属接头和防雨罩
 4=IP65/金属接头 (制动器和风机防护IP55) 5=IP65/金属接头和带防雨罩 (制动器和风机防护IP55)

制动器和逆止器 (旋向关系见: “可选附件和指定配置”)

N=无制动器 A=220-240VAC制动器 D=220-240VAC制动器带手柄 B=380-415VAC制动器 E=380-415VAC制动器带手柄 R=220-240VAC双制动器带手柄 S=380-415VAC双制动器带手柄 P=逆止器 (顺时针, 机座: 100-280) Q=逆止器 (逆时针, 机座: 100-280)	N=无制动器 B=380-415VAC制动器 E=380-415VAC制动器带手柄 S=380-415VAC双制动器带手柄 P=逆止器 (顺时针, 机座: 100-280) Q=逆止器 (逆时针, 机座: 100-280)
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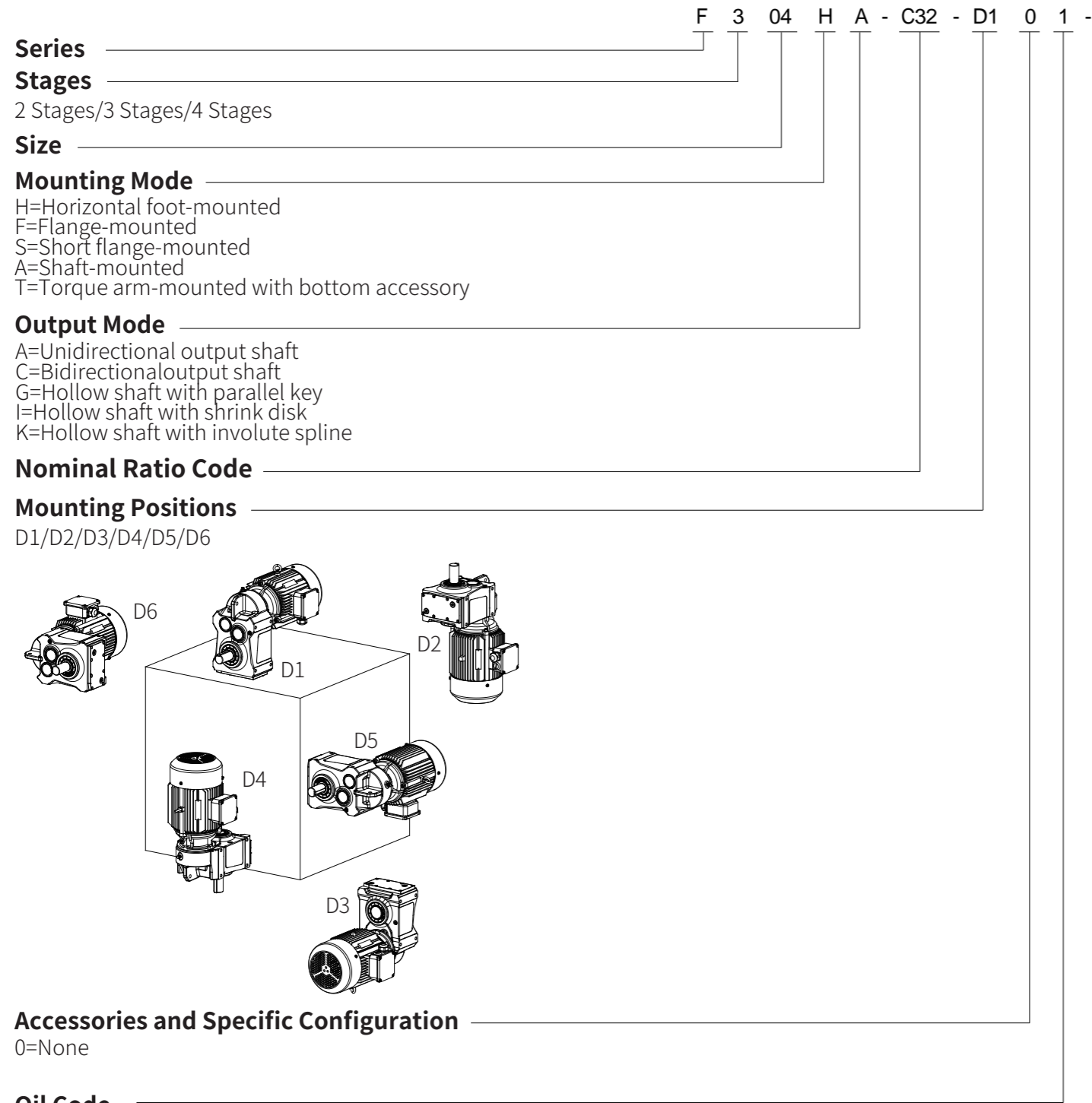
频率/电压

1=50Hz 220V△/380VY 2=50Hz 230V△/400VY 7=60Hz 440VY 8=60Hz 460VY A=50Hz 240V△/415VY C=60Hz 480VY E=60Hz 220V△/380VY	频率/电压	3=50Hz 380V△/660VY 4=50Hz 400V△/690VY 5=60Hz 440V△ 6=60Hz 460V△ B=50Hz 415V△ D=60Hz 480V△ F=60Hz 380V△
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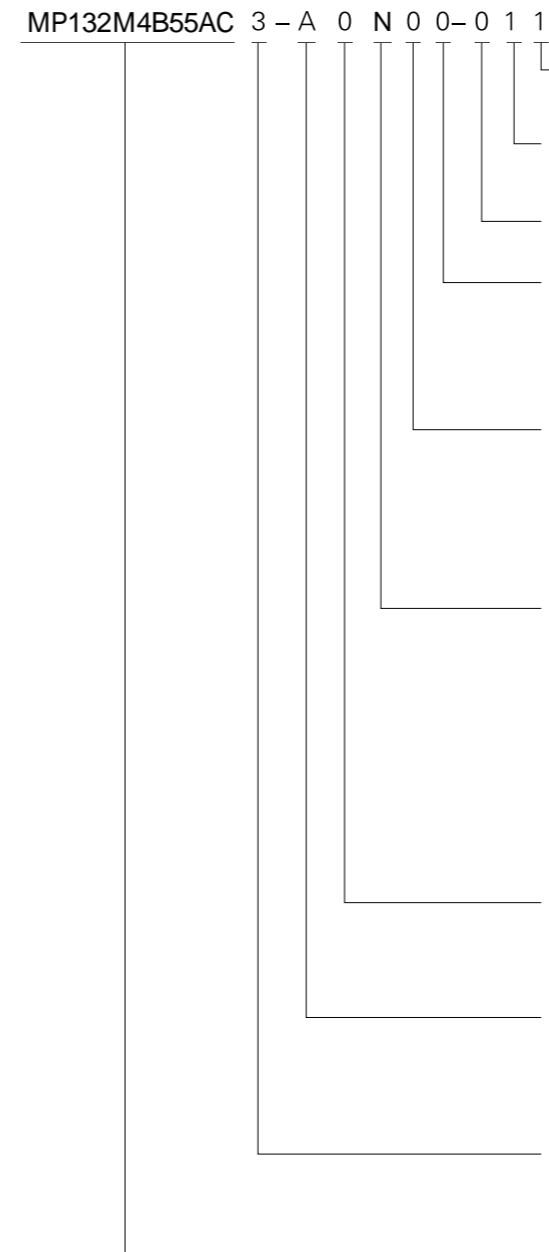
三相交流异步马达4极规格

功率 (kW)	MP=IE3	MU=IE4	功率 (kW)	MP=IE3	MU=IE4
0.12	MP063M4A12AL	MU063M4A12AL	4	MP112L4B40AC	MU132S4B40AC
0.18	MP063M4A18AL	MU071M4A18AL	5.5	MP132M4B55AC	MU132M4B55AC
0.25	MP071M4A25AL	MU071M4A25AL	7.5	MP132L4B75AC	MU160M4B75AC
0.37	MP071M4A37AL	MU080M4A37AL	11	MP160M4C11AC	MU160L4C11AC
0.55	MP080M4A55AL	MU080M4A55AL	15	MP160L4C15AC	MU180M4C15AC
0.75	MP080M4A75AL	MU090S4A75AL	18.5	MP180M4C18AC	MU180L4C18AC
1.1	MP090S4B11AL	MU090L4B11AL	22	MP180L4C22AC	MU200L4C22AC
1.5	MP090M4B15AL	MU100L4B15AL	30	MP200M4C30AC	MU225S4C30AC
2.2	MP100M4B22AL	MU100L4B22AL	37	MP225M4C37AC	MU225M4C37AC
3	MP100M4B30AL	MU112M4B30AC	45	MP225M4C45AC	MU250M4C45AC
/	/	/	55	MP250M4C55AC	MU280S4C55AC
/	/	/	75	MP280S4C75AC	MU280M4C75AC
/	/	/	90	MP280M4C90AC	MU280M4C90AC

1 Type Designation



- ◆ Example of gearbox with input flange for IEC motor connection:F308HA-C32-D101-AP112
- ◆ Example of gearbox with input flange for NEMA motor connection:F308HA-C32-D101-AN145
- ◆ Example of gearbox with input shaft:F308HA-C32-D101-AE3



Cable Entry Position

1/2/3/4

Terminal Box Position

1/2/3/4

Motor Mounting Position 0

Motor protection

- 0=Standard configuration
- 1=With rain cover
- J=With metal joint
- K=With metal joint and rain cover
- 4=IP65/with metal joint (brake and forced-fan IP55)
- 5=IP65/with metal joint and rain cover

Thermal Protection and Heating Protection

- 0=Without thermal protection
- 1=Thermistor
- 2=Thermal switch
- 3=PT100 temperature sensor
- 4=Heating belt
- 5=Thermistor and heating belt and heating protection
- 6=Thermal switch and heating belt
- 7=PT100 temperature sensor and heating belt

Brakes and Backstop (Relationship of rotational direction can be checked in "Accessories & Specific Configuration".)

N=No brake A=220-240VAC Brake D=220-240VAC Brake with release handle B=380-415VAC Brake E=380-415VAC Brake with release handle R=220-240VAC Double brake with release handle S=380-415VAC Double brake with release handle P=Backstop(CW, for size: 100~280) Q=Backstop(CCW, for size: 100~280)	N=No brake B=380-415VAC Brake E=380-415VAC Brake with release handle S=380-415VAC Double brake with release handle P=Backstop(CW, for size:100~280) Q=Backstop(CCW, for size:100~280)
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Encoder

- 0=No encoder
- 1=High-performance HTL encoder(1024P)
- 2=Standard encoder accessories
- 4=High-performance TTL encoder(1024P)
- 3=Economic HTL encoder(1024P)

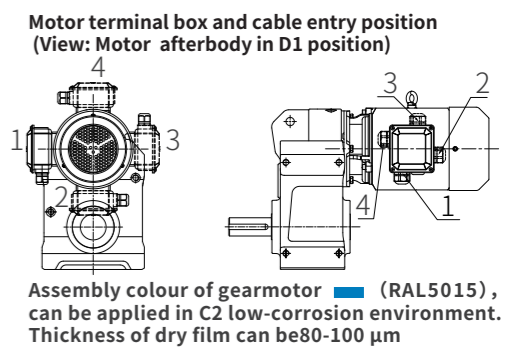
Cooling Method

A=Self-fan cooling F=Forced-fan cooling N=Natural cooling (for motor with double brake)

Frequency /Voltage	1=50Hz 220V△/380VY 2=50Hz 230V△/400VY 7=60Hz 440VY 8=60Hz 460VY A=50Hz 240V△/415VY C=60Hz 480VY E=60Hz 220V△/380VY	Frequency /Voltage	3=50Hz 380V△/660VY 4=50Hz 400V△/690VY 5=60Hz 440V△ 6=60Hz 460V△ B=50Hz 415V△ D=60Hz 480V△ F=60Hz 380V△
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Efficiency three-phase asynchronous motor (4 pole)

Power (kW)	MP=IE3	MU=IE4	Power (kW)	MP=IE3	MU=IE4
0.12	MP063M4A12AL	MU063M4A12AL	4	MP112L4B40AC	MU132S4B40AC
0.18	MP063M4A18AL	MU071M4A18AL	5.5	MP132M4B55AC	MU132M4B55AC
0.25	MP071M4A25AL	MU071M4A25AL	7.5	MP132L4B75AC	MU160M4B75AC
0.37	MP071M4A37AL	MU080M4A37AL	11	MP160M4C11AC	MU160L4C11AC
0.55	MP080M4A55AL	MU080M4A55AL	15	MP160L4C15AC	MU180M4C15AC
0.75	MP080M4A75AL	MU090S4A75AL	18.5	MP180M4C18AC	MU180L4C18AC
1.1	MP090S4B11AL	MU090L4B11AL	22	MP180L4C22AC	MU200L4C22AC
1.5	MP090M4B15AL	MU100L4B15AL	30	MP200M4C30AC	MU225S4C30AC
2.2	MP100M4B22AL	MU100L4B22AL	37	MP225M4C37AC	MU225M4C37AC
3	MP100M4B30AL	MU112M4B30AC	45	MP225M4C45AC	MU250M4C45AC
/	/	/	55	MP250M4C55AC	MU280S4C55AC
/	/	/	75	MP280S4C75AC	MU280M4C75AC
/	/	/	90	MP280M4C90AC	MU280M4C90AC



2 选型及举例

序号	说明	代号	单位	参数																			
1	确定马达的功率	P_1	kW	按设备需求确认马达功率																			
2	由马达极数、频率、电压确认马达额定转速	n_{1N}	r/min	$\leq 3000\text{rpm}$ 更高转速请咨询																			
3	齿轮箱的输出转速	n_{2N}	r/min	$i = n_{1N}/n_{2N}$																			
4	输出扭矩	T	N.m	$T = P_1 \cdot 9550/n_{2N}$, 需要校核输出扭矩是否满足负载设备需求																			
5	选择齿轮箱的服务系数	f_1	/	<table border="1"> <thead> <tr> <th rowspan="2">负荷性质</th> <th colspan="3">每天使用时间 (小时)</th> </tr> <tr> <th>≤ 2</th> <th>2~10</th> <th>10~24</th> </tr> </thead> <tbody> <tr> <td>均匀负载</td> <td>1.00</td> <td>1.00</td> <td>1.25</td> </tr> <tr> <td>一般冲击</td> <td>1.00</td> <td>1.25</td> <td>1.50</td> </tr> <tr> <td>强烈冲击</td> <td>1.25</td> <td>1.50</td> <td>1.75</td> </tr> </tbody> </table>	负荷性质	每天使用时间 (小时)			≤ 2	2~10	10~24	均匀负载	1.00	1.00	1.25	一般冲击	1.00	1.25	1.50	强烈冲击	1.25	1.50	1.75
				负荷性质		每天使用时间 (小时)																	
					≤ 2	2~10	10~24																
				均匀负载	1.00	1.00	1.25																
一般冲击	1.00	1.25	1.50																				
强烈冲击	1.25	1.50	1.75																				
6	确定齿轮箱所需的最小扭矩	T_{2N}	N.m	$T_{2N} \geq T \cdot f_1$																			
7	根据输出转速和齿轮箱所需的最小扭矩选定齿轮箱的机座号	/	/	查传动能力表和外形尺寸图																			
8	选择齿轮箱的安装形式、输出形式、安装方位、附件、润滑油以及马达附件	/	/	查型号表示方法、安装方位及外形尺寸图																			
9	确定型号	/	/	查型号表示方法																			
10	根据齿轮级数, 确定齿轮箱传动效率	η	/	F2.. 二级: 96%, F3.. 三级: 94%																			
11	准确的输出扭矩和输出转速校核	T_2, n_2	N.m、r/min	$T_2 = 9550 \cdot P_1 \cdot i_{ex} \cdot \eta / n_{1N}$ 和 $n_2 = n_{1N} / i_{ex}$ 查传动能力表, 确定精确减速比 i_{ex}																			
12	径向力校核	F_{r1}/F_{r2}	N	查输入轴/输出轴径向力表																			
13	标准环境	/	/	海拔1000m以下, 环境温度 $-20^\circ\text{C} \sim 40^\circ\text{C}$, 无防腐要求																			
14	其他环境选型要求需注意事项	/	/	高海拔(>1000m): 马达降额使用系数参照马达选型手册。 高温(>40°C): 马达降额使用系数参照马达选型手册。																			
15	产品特殊要求在订单中备注	/	/	油漆RAL色标号的颜色要求; 高腐蚀场合的油漆漆膜厚度要求; 产品包装要求; 马达H级绝缘等级; 低温($-40^\circ\text{C} \sim -20^\circ\text{C}$): 更换丁腈橡胶油封。																			
16	其他特殊要求需非标设计	/	/																				

序号	已知条件	选型举例	
1	马达功率 $P_1=11\text{kW}$	$P=11\text{kW}$	
2	50HZ, 380V, 4极电机	$n_{1N}=1450\text{r/min}$	
3	设备所需转速 $n_2=13\text{r/min}$	查传动能力表, 取公称输出转速 $n_{2N}=12.9\text{r/min}$, 公称减速比 $i_N=112$, 公称减速比代号D11	
4		$T = P_1 \cdot 9550/n_{2N} = 11 \times 9550/12.9 = 8143\text{N.m}$, 满足负载所需扭矩。	
5	负荷性质: 一般冲击, 工作10h/天	$f_1=1.5$	
6	/	$T_{2N} \geq T \cdot f_1 = 8143 \times 1.5 = 12215\text{N.m}$,	
7	/	查传动能力表, 初定减速机型号F312, $T_{2N}=12000\text{N.m} > 10179\text{N.m}$; 查F312外形尺寸图, 可直联。	
8	齿轮箱: 法兰安装, 单向实心输出A向, D1安装, 无附件, 出厂不加注润滑油; 马达: 配380VAC制动器(带手柄)、无编码器、无热保护和特殊防护要求接线盒1号位, 进线孔1号位。	安装形式代号: F 输出形式代号: A 安装方位代号: D1 无附件代号: 0 不加润滑油代号: 0	自扇冷却代号: A 配380VAC制动器(带手柄)代号: E 马达接线盒位置代号: 1 马达进线孔位置代号: 1
9	/	查型号表示方法, 选择F312FA-D11-D100-MP160M4C11AC3-A0E00-011	
10	η	0.94	
11	设备所需转速 $n_2=13\text{r/min}$	$i_{ex}=109.2$, $T_2 = 9550 \cdot P_1 \cdot i_{ex} \cdot \eta / n_{1N} = 9550 \times 11 \times 109.2 \times 0.94 / 1450 = 7430\text{N.m}$, $n_2 = n_{1N} / i_{ex} = 1450 / 109.2 = 13.3\text{r/min}$, 综上, 满足设备所需输出扭矩及输出转速。	
12	输出轴径向力45000N	查输入轴/输出轴径向力表, 许用径向力63450N, 满足要求。	
13	标准环境	/	
14	无其他要求	/	
15	无防腐要求	/	
16	无特殊要求	/	

2 Type Selection & Example

Step	Description	Symbol	Unit	Parameters		
1	Confirm motor power	P1	kW	Confirm motor power according to equipment requirement		
2	Confirm nominal motor speed, frequency and voltage.	n1N	r/min	≤3000rpm Consult us if higher speed required.		
3	Output speed of Gearbox	n2N	r/min	$i=n1N/n2N$		
4	Output torque	T	N.m	$T=P1 \cdot 9550/n2N$, Checking output torque		
5	Select gearbox service factor	f1	/	Load property		
				Operating hours per day (h)		
				≤2	2~10	10~24
				Uniform	1.00	1.00
Moderate	1.00	1.25	1.50			
Heavy	1.25	1.50	1.75			
6	Confirm minimum torque	T2N	N.m	$T2N \geq T \cdot f1$		
7	Determine gearbox size	/	/	Check transmission capacity and dimensions.		
8	Select mounting mode, output mode, accessories, lubricant oil	/	/	Check type designation, mounting position and dimensions, confirm motor accessory parameters		
9	Determine type	/	/	Check type designation		
10	Confirm gearbox transmission efficiency	η	/	F2.. 2-stage: 96%, F3.. 3-stage: 94%		
11	Calculate exact T2 and n2	T2、n2	N.m、r/min	$T2=9550 \cdot P1 \cdot iex \cdot \eta / n1N$, $n2=n1N/iex$ Check transmission capacity table to get exact ratio iex		
12	Proofread radial force	Fr1/Fr2	N	Check radial force table of input/output shaft		
13	Standard environment	/	/	<1000m altitude, -20°C~40°C, no anti-corrosion requirement		
14	Caution for extra environment	/	/	High altitude (>1000m) & High temperature Check motor selection catalogue for motor derating service factor		
15	Please comment in the order if special requirement is needed.	/	/	1. Painting color requirement 1) Topcoat is silver RAL9006; 2) Undercoat is iron oxide red RAL3009; 2. Painting thickness requirement 1) C3 medium-corrosion environment, total thickness of dry film 150~180 μm; 2) C5-M high-corrosion environment, total thickness of dry film 300~360 μm; 3. Low temperature (-40°C~-20°C), High-speed shaft oil seals-NBR oil seals; 4. Motor insulation level H.		
16	Non-standard designation is necessary for extra special requirement	/	/			

Step	Known Conditions	Selection Example
1	Motor power P1=11kW	P1=11kW
2	50Hz, 380V, 4-pole motor	n1N=1450r/min
3	Required output speed n2=13r/min	Check transmission capacity table, select nominal output speed n2N=12.9r/min, nominal ratio iN=112, nominal ratio code D11
4		$T=P1 \cdot 9550/n2=11 \times 9550/12.9=8143N \cdot m$, can be satisfied with the required torque.
5	Load property: Moderate, Operation period 16h per day	f1=1.5
6	/	$T2N \geq T \cdot f1=8143 \times 1.25=10179N \cdot m$
7	/	Check transmission capacity table to preliminarily select K312 as gearbox type, $T2N=12000N \cdot m > 10179N \cdot m$; Check F312 dimension which can be directly-connected
8	Gearbox: Flange-mounted, Output shaft A, mounting position D1, without accessory and lubricant oil Motor: 380VAC brake with handle release, without encoder, thermal and heating protection. Cable entry position land terminal box position 1.	Mounting mode code: F Output mode code: A Mounting position code: D1 Code for no accessory: 0 Code for no lubricant oil: 0 Self-fan cooling code: A Code for 380VAC brake with handle release: E Cable entry position code: 1 Terminal box position code: 1
9	/	Check type designation and select F312FA-D11-D100-MP160M4C11AC3-A0E00-011
10	η	0.94
11	Required output speed n2=13r/min	iex=109.2, $T2=9550 \cdot P1 \cdot iex \cdot \eta / n1N=9550 \times 11 \times 109.2 \times 0.94/1450=7437N \cdot m$, $n2=n1N/iex=1450/109.2=13.3r/min$, According to the above, output torque and speed are satisfied.
12	Radial force of output shaft 45000N	Check radial force table of input/output shaft, allowable radial force 63450N, which is satisfied with the requirement.
13	Standard environment	/
14	Without extra requirement	/
15	Without anti-corrosion requirement	/
16	Without special requirement	/

3 传动能力表

3.1 F系列传动能力表
F...(i_N=4-250)

3 Transmission Capacity

3.1 F Transmission Capacity
F...(i_N=4-250)

公称输入转速 Nominal Input Speed	公称输出转速 Nominal Output Speed	公称减速比代号 Nominal Ratio Code	公称减速比 Nominal Ratio	额定输出扭矩 Rated Output Torque	精确减速比 Exact Ratio	额定输入功率 Rated Input Power	额定输出扭矩 Rated Output Torque	精确减速比 Exact Ratio	额定输入功率 Rated Input Power
n _{1N} (r/min)	n _{2N} (r/min)	Code	i _N	T _{2N} (N.m)	i _{ex}	P _{1N} (kW)	T _{2N} (N.m)	i _{ex}	P _{1N} (kW)
1450	363	B40	4	130	3.95	4.99	160	4.13	5.9
	322	B45	4.5	140	4.46	4.77	170	4.63	5.6
	290	B50	5	140	5.08	4.19	185	5.23	5.4
	259	B56	5.6	150	5.74	3.97	220	5.81	5.8
	230	B63	6.3	150	6.50	3.50	220	6.66	5.0
	204	B71	7.1	150	7.00	3.25	220	7.32	4.57
	181	B80	8	150	7.80	2.92	220	8.25	4.05
	161	B90	9	150	8.79	2.59	220	9.03	3.70
	145	C10	10	150	10.0	2.27	220	10.1	3.30
	129	C11	11.2	150	11.3	2.01	220	11.4	2.92
	116	C13	12.5	150	12.8	1.78	220	12.7	2.63
	104	C14	14	150	13.8	1.65	240	14.6	2.50
	90.6	C16	16	150	16.0	1.42	240	16.0	2.28
	80.6	C18	18	150	17.7	1.29	240	18.0	2.02
	72.5	C20	20	150	19.9	1.14	240	19.3	1.89
	64.7	C22	22.4	150	22.7	1.00	240	22.5	1.62
	58.0	C25	25	150	25.7	0.89	240	25.5	1.43
	51.8	C28	28	150	29.1	0.78	240	28.9	1.26
	46.0	C32	31.5	150	31.3	0.73	240	31.1	1.17
	40.8	C36	35.5	150	34.9	0.65	240	34.8	1.05
	36.3	C40	40	150	39.3	0.58	240	38.4	0.95
	32.2	C45	45	150	44.8	0.51	240	43.3	0.84
	29.0	C50	50	150	50.6	0.45	240	49.3	0.74
	25.9	C56	56	150	57.3	0.40	240	55.8	0.65
	23.0	C63	63	150	61.7	0.37	240	63.1	0.58
	20.4	C71	71	150	72.3	0.32	240	68.0	0.54
	18.1	C80	80	150	81.9	0.28	240	79.6	0.46
	16.1	C90	90	150	90.3	0.25	240	90.2	0.40
	14.5	D10	100	150	98.7	0.23	240	99.4	0.37
	12.9	D11	112	150	107.9	0.21	240	108.7	0.34
11.6	D13	125					240	118.8	0.31
10.4	D14	140							
9.06	D16	160							
8.06	D18	180							
7.25	D20	200							
6.47	D22	224							
5.80	D25	250							
960	12.0	C80	80	150	81.9	0.19	240	79.6	0.30
	10.7	C90	90	150	90.3	0.17	240	90.2	0.26
	9.6	D10	100	150	98.7	0.15	240	99.4	0.24
	8.54	D11	112	150	107.9	0.14	240	108.7	0.23
	7.68	D13	125				240	118.8	0.21
	6.89	D14	140						
	6	D16	160						
	5.34	D18	180						
	4.80	D20	200						
	4.28	D22	224						
3.84	D25	250							

额定输出扭矩 Rated Output Torque	精确减速比 Exact Ratio	额定输入功率 Rated Input Power	额定输出扭矩 Rated Output Torque	精确减速比 Exact Ratio	额定输入功率 Rated Input Power	额定输出扭矩 Rated Output Torque	精确减速比 Exact Ratio	额定输入功率 Rated Input Power
T _{2N} (N.m)	i _{ex}	P _{1N} (kW)	T _{2N} (N.m)	i _{ex}	P _{1N} (kW)	T _{2N} (N.m)	i _{ex}	P _{1N} (kW)
F204 F304			F205 F305			F206 F306		
280	4.54	9.4	500	3.81	19.9	560	4.12	20.6
300	5.20	8.8	520	4.37	18.1	580	4.69	18.8
310	5.91	8.0	550	4.96	16.8	600	5.21	17.5
310	6.61	7.1	580	5.55	15.9	600	5.40	16.9
330	7.36	6.8	610	6.18	15.0	660	6.14	16.3
390	8.09	7.3	610	6.79	13.6	660	6.81	14.7
390	9.19	6.4	650	8.00	12.3	700	7.97	13.3
390	9.85	6.0	650	9.10	10.8	700	9.07	11.7
410	11.2	5.6	650	10.2	9.7	700	10.1	10.6
410	12.5	4.97	650	11.3	8.7	750	11.5	9.9
410	12.5	4.47	650	12.5	7.9	830	13.0	9.7
410	13.9	4.47	650	14.1	7.0	850	13.4	9.6
410	15.3	4.06	650	15.5	6.4	900	15.3	8.9
410	17.4	3.58	660	17.6	5.7	900	18.7	7.3
410	19.0	3.27	660	19.8	5.1	900	20.0	6.8
440	21.6	3.09	680	22.2	4.65	900	22.0	6.2
440	24.3	2.75	680	25.1	4.12	900	25.2	5.4
480	27.3	2.67	700	27.8	3.82	900	26.8	5.1
480	30.8	2.36	700	31.9	3.33	900	31.6	4.33
480	34.2	2.13	700	35.0	3.03	900	36.2	3.78
480	39.2	1.86	700	39.3	2.71	900	41.1	3.32
420	43.0	1.48	700	44.4	2.40	900	46.0	2.97
420	48.3	1.32	700	49.2	2.16	900	51.2	2.67
420	54.6	1.17	700	56.4	1.88	900	55.3	2.47
430	60.6	1.08	700	62.0	1.71	900	61.8	2.21
430	69.4	0.94	700	69.9	1.52	900	68.8	1.99
430	76.3	0.86	700	74.7	1.42	900	75.7	1.81
430	86.0	0.76	700	86.8	1.22	900	85.9	1.59
430	91.9	0.71	700	97.7	1.09	900	93.9	1.45
440	106.8	0.63	700	106.7	1.00	900	113.6	1.20
440	120.2	0.56	700	117.0	0.91	900	131.4	1.04
440	144.0	0.46	700	127.1	0.84	900	138.9	0.98
440	156.4	0.43				900	156.2	0.88
						900	166.2	0.82
						900	187.7	0.73
430	76.3	0.57						
430	86.0	0.50						
430	91.9	0.47	700	97.7	0.72	900	93.9	0.96
440	106.8	0.42	700	106.7	0.66	900	113.6	0.79
440	120.2	0.37	700	117.0	0.60	900	131.4	0.69
440	144.0	0.30	700	127.1	0.56	900	138.9	0.65
440	156.4	0.28				900	156.2	0.58
						900	166.2	0.54
						900	187.7	0.48

3.1 F系列传动能力表(续)
F...(iN=4-250)

3.1 F Transmission Capacity
F...(iN=4-250)

公称输入转速 Nominal Input Speed	公称输出转速 Nominal Output Speed	公称减速比代号 Nominal Ratio Code	公称减速比 Nominal Ratio	额定输出扭矩 Rated Output Torque	精确减速比 Exact Ratio	额定输入功率 Rated Input Power	额定输出扭矩 Rated Output Torque	精确减速比 Exact Ratio	额定输入功率 Rated Input Power
n_{1N} (r/min)	n_{2N} (r/min)	Code	i_N	T_{2N} (N.m)	i_{ex}	P_{1N} (kW)	T_{2N} (N.m)	i_{ex}	P_{1N} (kW)
1450	363	B40	4	850	4.01	32.2	2000	3.93	77
	322	B45	4.5	850	4.56	28.3	2200	4.30	78
	290	B50	5	880	4.88	27.4	2400	5.08	72
	259	B56	5.6	880	5.76	23.2	2500	5.70	67
	230	B63	6.3	900	6.48	21.1	2500	6.08	62
	204	B71	7.1	1000	7.10	21.4	2500	6.96	55
	181	B80	8	1000	8.20	18.5	2800	7.74	55
	161	B90	9	1000	8.75	17.4	2800	8.77	48.5
	145	C10	10	1100	10.4	16.1	3100	9.79	48.1
	129	C11	11.2	1300	11.3	17.4	3100	11.0	42.9
	116	C13	12.5	1400	12.7	16.7	3100	11.7	40.2
	104	C14	14	1400	13.9	15.2	3100	13.4	35.1
	90.6	C16	16	1550	16.1	14.6	3100	14.9	31.6
	80.6	C18	18	1550	17.2	13.7	3100	16.9	27.9
	72.5	C20	20	1600	19.7	12.3	3100	18.9	24.9
	64.7	C22	22.4	1600	22.6	10.7	3200	21.6	22.5
	58.0	C25	25	1600	25.5	9.5	3200	24.1	20.1
	51.8	C28	28	1600	28.3	8.6	3200	27.4	17.7
	46.0	C32	31.5	1600	32.5	7.5	3200	31.8	15.3
	40.8	C36	35.5	1700	36.5	7.1	3200	34.7	14.0
	36.3	C40	40	1700	38.7	6.7	3200	39.0	12.5
	32.2	C45	45	1700	44.4	5.8	3200	42.7	11.4
	29.0	C50	50	1700	50.0	5.2	3200	49.4	9.8
	25.9	C56	56	1700	55.6	4.64	3200	56.6	8.6
	23.0	C63	63	1700	63.8	4.05	3200	61.3	7.9
	20.4	C71	71	1700	71.7	3.60	3200	66.8	7.3
	18.1	C80	80	1700	80.2	3.22	3500	82.3	6.5
	16.1	C90	90	1700	89.3	2.89	3500	95.1	5.6
	14.5	D10	100	1700	97.8	2.64	3500	101.4	5.2
	12.9	D11	112	1700	106.4	2.43	3500	117.1	4.54
11.6	D13	125	1700	119.6	2.16	3500	133.2	3.99	
10.4	D14	140	1700	131.0	1.97	3500	148.0	3.59	
9.06	D16	160	1700	153.8	1.68	3500	166.4	3.19	
8.06	D18	180	1700	170.9	1.51	3500	183.1	2.90	
7.25	D20	200	1700	188.0	1.37	3500	200.1	2.66	
6.47	D22	224	1700	212.0	1.22	3300	231.7	2.16	
5.80	D25	250	1700	249.4	1.04	3300	255.6	1.96	
960	12.0	C80	80						
	10.7	C90	90						
	9.6	D10	100						
	8.54	D11	112						
	7.68	D13	125	1700	119.6	1.43	3500	133.2	2.64
	6.89	D14	140	1700	131.0	1.3	3500	148.0	2.38
	6	D16	160	1700	153.8	1.11	3500	166.4	2.11
	5.34	D18	180	1700	170.9	1.00	3500	183.1	1.92
	4.80	D20	200	1700	188.0	0.91	3500	200.1	1.76
	4.28	D22	224	1700	212.0	0.81	3300	231.7	1.43
3.84	D25	250	1700	249.4	0.69	3300	255.6	1.30	

额定输出扭矩 Rated Output Torque	精确减速比 Exact Ratio	额定输入功率 Rated Input Power	额定输出扭矩 Rated Output Torque	精确减速比 Exact Ratio	额定输入功率 Rated Input Power	额定输出扭矩 Rated Output Torque	精确减速比 Exact Ratio	额定输入功率 Rated Input Power	额定输出扭矩 Rated Output Torque	精确减速比 Exact Ratio	额定输入功率 Rated Input Power
T_{2N} (N.m)	i_{ex}	P_{1N} (kW)	T_{2N} (N.m)	i_{ex}	P_{1N} (kW)	T_{2N} (N.m)	i_{ex}	P_{1N} (kW)	T_{2N} (N.m)	i_{ex}	P_{1N} (kW)
F209 F309			F210 F310			F212 F312			F215 F315		
3000	3.97	115									
3000	4.68	97									
3200	5.08	96	4300	5.04	130	7000	4.88	218			
3400	5.93	87	4300	5.72	114	7500	5.43	210			
3600	6.57	83	4500	6.67	102	7500	6.11	186	16000	6.28	387
3600	7.10	77	4500	7.41	92	8500	7.04	183	16000	7.08	343
4000	7.95	76	5000	7.74	98	8500	7.77	166	16000	8.18	297
4000	9.37	65	5000	8.78	86	9000	8.61	159	18000	9.33	293
4500	10.2	67	5000	10.2	74	10000	9.58	159	18000	10.0	273
4500	11.9	58	5500	11.4	73	10000	10.9	140	18000	10.8	253
4500	13.2	52	5500	12.7	66	11000	12.4	135	18000	12.5	219
4500	13.9	49.0	6000	14.0	65	11000	13.7	122	19000	14.0	207
4700	15.9	45.0	6000	15.2	60	11000	15.1	110	19000	15.7	183
4700	17.7	40.2	6000	17.5	52	11000	16.8	99	19000	17.4	166
4700	19.7	36.2	6000	19.8	46.1	12000	19.1	95	19000	19.6	147
4700	22.4	31.8	7000	22.0	48.3	12000	21.2	86	20000	21.7	140
4700	24.0	29.8	7500	24.4	46.7	12000	24.3	75	20000	24.2	125
4700	27.4	26.0	8200	27.7	45.0	12000	27.6	66	20000	27.1	112
4700	30.5	23.4	8200	32.6	38.2	12000	32.2	57	20000	30.1	101
4700	33.9	21.0	8200	35.4	35.2	12000	35.7	51	20000	34.0	89
4700	40.1	17.8	8200	41.3	30.1	12000	39.8	45.8	20000	39.1	78
4700	44.9	15.9	8200	45.8	27.2	12000	44.0	41.4	20000	43.2	70
4700	48.0	14.9	8200	50.1	24.9	12000	48.5	37.6	20000	47.8	63
4700	54.9	13.0	8200	54.3	22.9	12000	56.5	32.2	20000	53.2	57
4700	61.0	11.7	8200	63.4	19.6	12000	62.8	29.0	20000	61.7	49.2
4700	69.2	10.3	8200	70.3	17.7	12000	70.0	26.0	20000	68.3	44.5
4700	77.6	9.2	8200	74.5	16.7	12000	77.3	23.6	20000	76.0	40.0
4700	88.5	8.1	8200	84.7	14.7	12000	83.8	21.7	20000	86.3	35.2
4700	94.4	7.6	8200	94.8	13.1	12000	96.4	18.9	20000	95.8	31.7
4700	108.4	6.6	8200	105.2	11.8	12000	109.2	16.7	20000	108.8	27.9
4700	122.0	5.9	8200	123.2	10.1	12000	121.5	15.0	20000	124.9	24.3
4700	134.7	5.3	8200	132.4	9.4	12000	134.5	13.5	20000	141.3	21.5
4700	151.5	4.71	8200	148.9	8.4	12000	157.0	11.6	20000	155.1	19.6
4700	175.5	4.07	8200	171.3	7.3	12000	166.6	10.9	20000	171.3	17.7
4700	193.9	3.68	8200	190.6	6.5	10000	188.9	8.0			
4700	218.0	3.27	8200	224.2	5.6	10000	215.6	7.0			
4700	237.2	3.01									
4700	156.1	3.03	8200	148.9	5.6	12000	157.0	7.7	20000	155.1	13.0
4700	175.5	2.69	8200	171.3	4.83	12000	166.6	7.2	20000	171.3	11.7
4700	193.9	2.44	8200	190.6	4.3	10000	188.9	5.3			
4700	218.0	2.16	8200	224.2	3.71	10000	215.6	4.63			
4700	237.2	1.99									

3.2 F.../C...组合型传动能力表

3.2 F.../C... Combi-type
Transmission Capacity
F.../C...(i_N=125-18000)

F.../C...(i_N=125-18000)

公称输入转速 Nominal Input Speed	公称输出转速 Nominal Output Speed	公称减速比代号 Nominal Ratio Code	公称减速比 Nominal Ratio	额定输出扭矩 Rated Output Torque	精确减速比 Exact Ratio	额定输入功率 Rated Input Power	额定输出扭矩 Rated Output Torque	精确减速比 Exact Ratio	额定输入功率 Rated Input Power	
n _{1N} (r/min)	n _{2N} (r/min)	Code	i _N	T _{2N} (N.m)	i _{ex}	P _{1N} (kW)	T _{2N} (N.m)	i _{ex}	P _{1N} (kW)	
1450	11.60	D13	125	150	124.0	0.18	240	124.0	0.29	
	10.36	D14	140	150	146.4	0.16	240	146.4	0.25	
	9.06	D16	160	150	163.2	0.14	240	163.2	0.22	
	8.06	D18	180	150	182.4	0.12	240	182.4	0.20	
	7.25	D20	200	150	193.6	0.12	240	193.6	0.19	
					F302/C201		F203/C201			
	6.47	D22	224	150	224.8		240	224.1	0.16	
	5.80	D25	250	150	238.7		240	238.0	0.15	
	5.18	D28	280	150	270.5		240	269.7	0.14	
	4.60	D32	315	150	319.3		240	318.4	0.11	
	4.08	D36	355	150	356.0		240	355.0	0.10	
	3.63	D40	400	150	397.9		240	396.7		
	3.22	D45	450	150	422.3		240	421.1		
					F302/C301		F303/C301			
	2.90	D50	500	150	502.6		240	501.1		
					F302/C301		F303/C301			
	2.59	D56	560	150	575.9		240	574.2		
	2.30	D63	630	150	656.1		240	654.2		
	2.04	D71	710	150	712.0		240	709.9		
	1.81	D80	800	150	774.8		240	772.6		
	1.61	D90	900	150	858.5		240	856.1		
	1.45	E10	1000	150	959.8		240	957		
	1.29	E11	1120	150	1127		240	1124		
	1.16	E13	1250	150	1235		240	1232		
	1.04	E14	1400	150	1340		240	1336		
	0.91	E16	1600	150	1616		240	1611		
	0.81	E18	1800	150	1808		240	1803		
	0.73	E20	2000	150	1920		240	1914		
	0.65	E22	2240	150	2184		240	2234		
	0.58	E25	2500	150	2369		240	2423		
	0.52	E28	2800	150	2857		240	2922		
	0.46	E32	3150	150	3196		240	3269		
	0.41	E36	3550	150	3394		240	3471		
	0.36	E40	4000	150	3751		240	3836		
	0.32	E45	4500	150	4399		240	4499		
	0.29	E50	5000	150	4998		240	5111		
	0.26	E56	5600	150	5393		240	5515		
	0.23	E63	6300	150	6438		240	6431		
	0.20	E71	7100	150	7314		240	7306		
	0.18	E80	8000	150	7892		240	7883		
0.16	E90	9000								
0.15	F10	10000								
0.13	F11	11200								
0.12	F13	12500								
0.10	F14	14000								
0.09	F16	16000								
0.08	F18	18000								

额定输出扭矩 Rated Output Torque	精确减速比 Exact Ratio	额定输入功率 Rated Input Power	额定输出扭矩 Rated Output Torque	精确减速比 Exact Ratio	额定输入功率 Rated Input Power	额定输出扭矩 Rated Output Torque	精确减速比 Exact Ratio	额定输入功率 Rated Input Power
T _{2N} (N.m)	i _{ex}	P _{1N} (kW)	T _{2N} (N.m)	i _{ex}	P _{1N} (kW)	T _{2N} (N.m)	i _{ex}	P _{1N} (kW)
F204/C203			F205/C203			F306/C203		
410	136.2	0.46	650	138.0	0.72			
410	156.1	0.40	650	158.1	0.62	900	156.1	0.88
410	171.4	0.36	650	173.6	0.57	900	171.4	0.80
410	192.8	0.32	650	195.3	0.51	900	192.8	0.71
F304/C203			F305/C203					
480	216.1	0.34	700	221.2	0.48	900	228.8	0.60
480	242.8	0.30	700	248.5	0.43	900	257.0	0.53
480	274.3	0.27	700	280.7	0.38	900	290.3	0.47
480	304.4	0.24	700	311.5	0.34	900	322.2	0.42
480	348.8	0.21	700	357.0	0.30	900	369.2	0.37
480	383.0	0.19	700	392.0	0.27	900	405.4	0.34
480	430.9	0.17	700	441.0	0.24	900	456.1	0.30
F304/C303			F305/C303			F306/C303		
480	461.7	0.16	700	472.5	0.22	900	488.7	0.28
480	523.3	0.14	700	535.5	0.20	900	553.9	0.25
480	591.7	0.12	700	605.5	0.18	900	626.3	0.22
480	673.7	0.11	700	689.5	0.15	900	713.1	0.19
480	759.2		700	777.0	0.14	900	803.6	0.17
480	861.8		700	882.0	0.12	900	912.2	0.15
480	920.0		700	941.5		900	973.8	0.14
480	1036		700	1061		900	1097	0.12
480	1180		700	1208		900	1249	0.11
480	1337		700	1369		900	1415	
480	1512		700	1547		900	1600	
480	1628		700	1666		900	1723	
480	1905		700	1950		900	2016	
430	2091		700	2139		900	2132	
430	2369		700	2424		900	2416	
430	2679		700	2740		900	2732	
430	2885		700	2951		900	2942	
430	3375		700	3453		900	3442	
430	3830		700	3918		900	3906	
430	4218		700	4315		900	4301	
430	4612		700	4718		900	4703	
430	5042		700	5158		900	5142	
430	5986		700	6041		900	5979	
430	6545		700	6605		900	6537	
430	7155		700	7222		900	7147	

3.2 F.../C...组合型传动能力表

3.2 F.../C... Combi-type Transmission Capacity

F.../C...(i_N=125-18000)

F.../C...(i_N=125-18000)

公称输入转速 Nominal Input Speed	公称输出转速 Nominal Output Speed	公称减速比代号 Nominal Ratio Code	公称减速比 Nominal Ratio	额定输出扭矩 Rated Output Torque	精确减速比 Exact Ratio	额定输入功率 Rated Input Power	额定输出扭矩 Rated Output Torque	精确减速比 Exact Ratio	额定输入功率 Rated Input Power
n _{1N} (r/min)	n _{2N} (r/min)	Code	i _N	T _{2N} (N.m)	i _{ex}	P _{1N} (kW)	T _{2N} (N.m)	i _{ex}	P _{1N} (kW)
1450	11.60	D13	125						
	10.36	D14	140						
	9.06	D16	160	1550	164.2	1.43	3100	143.9	3.27
	8.06	D18	180	1550	180.3	1.31	3100	160.9	2.92
	7.25	D20	200	1550	202.9	1.16	3100	178.8	2.63
	6.47	D22	224	1700	230.7	1.12	3200	226.2	2.15
	5.80	D25	250	1700	259.2	1.00	3200	251.6	1.93
	5.18	D28	280	1700	292.7	0.88	3200	276.9	1.75
	4.60	D32	315	1700	324.9	0.79	3200	314.4	1.55
	4.08	D36	355	1700	372.3	0.69	3200	335.2	1.45
	3.63	D40	400	1700	408.8	0.63	3200	374.8	1.30
	3.22	D45	450	1700	459.9	0.56	3200	416.4	1.17
	2.90	D50	500	1700	492.8	0.52	3200	520.5	0.93
	2.59	D56	560	1700	558.5	0.46	3200	569.1	0.85
	2.30	D63	630	1700	631.5	0.41	3200	648.9	0.75
	2.04	D71	710	1700	719.1	0.36	3200	690.5	0.70
	1.81	D80	800	1700	810.3	0.32	3200	777.3	0.63
	1.61	D90	900	1700	919.8	0.28	3200	874.4	0.56
	1.45	E10	1000	1700	982	0.26	3200	985	0.49
	1.29	E11	1120	1700	1106	0.23	3200	1093	0.44
	1.16	E13	1250	1700	1259	0.20	3200	1253	0.39
	1.04	E14	1400	1700	1427	0.18	3200	1378	0.35
	0.91	E16	1600	1700	1613	0.16	3200	1634	0.30
	0.81	E18	1800	1700	1737	0.15	3200	1815	0.27
	0.73	E20	2000	1700	2033	0.13	3200	2079	0.23
	0.65	E22	2240	1700	2201		3200	2213	0.22
	0.58	E25	2500	1700	2495		3200	2434	0.20
	0.52	E28	2800	1700	2820		3200	2887	0.17
	0.46	E32	3150	1700	3037		3200	3206	0.15
	0.41	E36	3550	1700	3554		3200	3672	0.13
	0.36	E40	4000	1700	4032		3200	4034	0.12
	0.32	E45	4500	1700	4440		3200	4548	0.11
	0.29	E50	5000	1700	4855		3200	4861	
	0.26	E56	5600	1700	5308		3200	5652	
0.23	E63	6300	1700	6215		3500	7056		
0.20	E71	7100	1700	6796		3500	7541		
0.18	E80	8000	1700	7430		3500	8768		
0.16	E90	9000				3500	9862		
0.15	F10	10000				3500	10775		
0.13	F11	11200				3500	11811		
0.12	F13	12500				3500	12839		
0.10	F14	14000							
0.09	F16	16000							
0.08	F18	18000							

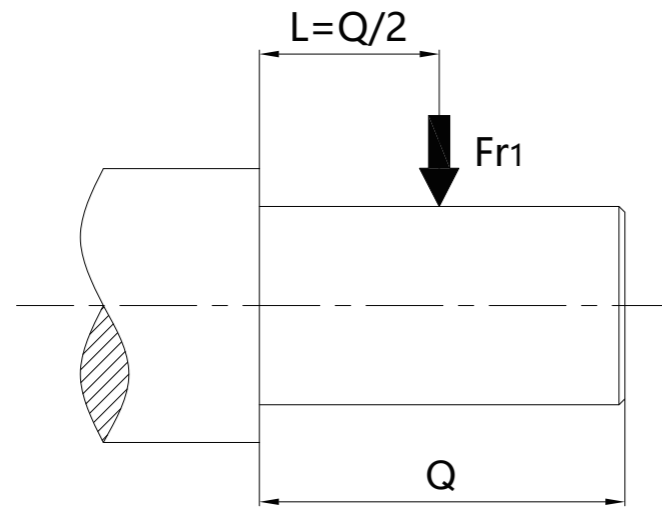
额定输出扭矩 Rated Output Torque	精确减速比 Exact Ratio	额定输入功率 Rated Input Power	额定输出扭矩 Rated Output Torque	精确减速比 Exact Ratio	额定输入功率 Rated Input Power	额定输出扭矩 Rated Output Torque	精确减速比 Exact Ratio	额定输入功率 Rated Input Power	额定输出扭矩 Rated Output Torque	精确减速比 Exact Ratio	额定输入功率 Rated Input Power
T _{2N} (N.m)	i _{ex}	P _{1N} (kW)	T _{2N} (N.m)	i _{ex}	P _{1N} (kW)	T _{2N} (N.m)	i _{ex}	P _{1N} (kW)	T _{2N} (N.m)	i _{ex}	P _{1N} (kW)
4700	153.6	4.65	6000	156.6	5.82	11000	157.0	10.6	19000	158.6	18.2
4700	171.7	4.16	6000	176.3	5.17	11000	170.6	9.8	19000	179.0	16.1
4700	190.8	3.74	8200	199.7	6.24	11000	191.8	8.7	19000	190.0	15.2
4700	221.0	3.23	8200	224.4	5.55	12000	226.3	8.0	20000	210.1	14.5
4700	245.8	2.90	8200	252.8	4.93	12000	254.9	7.1	20000	240.0	12.7
4700	270.5	2.64	8200	287.8	4.33	12000	290.2	6.3	20000	266.9	11.4
4700	307.1	2.32	8200	319.0	3.90	12000	321.7	5.7	20000	302.9	10.0
4700	327.5	2.18	8200	364.6	3.41	12000	367.7	5.0	20000	343.4	8.8
4700	366.1	1.95	8200	410.6	3.03	12000	414.1	4.40	20000	387.6	7.8
4700	406.8	1.75	8200	446.0	2.79	12000	449.8	4.05	20000	411.4	7.4
4700	508.5	1.40	8200	513.3	2.43	12000	517.7	3.52	20000	472.6	6.4
4700	556.0	1.28	8200	545.2	2.28	12000	549.8	3.31	20000	523.6	5.8
4700	633.9	1.13	8200	626.6	1.99	12000	631.9	2.88	20000	595.0	5.10
4700	674.6	1.06	8200	732.8	1.70	12000	739.0	2.47	20000	666.4	4.56
4700	759.4	0.94	8200	821.3	1.52	12000	828.2	2.20	20000	761.6	3.99
4700	854	0.84	8200	938.1	1.33	12000	946.1	1.93	20000	812.6	3.74
4700	963	0.74	8200	1002	1.24	12000	1010	1.80	20000	948.6	3.20
4700	1068	0.67	8200	1147	1.09	12000	1157	1.58	20000	1098	2.77
4700	1224	0.58	8200	1306	0.95	12000	1317	1.38	20000	1197	2.54
4700	1346	0.53	8200	1345	0.93	12000	1357	1.34	20000	1346	2.26
4700	1597	0.45	8200	1543	0.81	12000	1557	1.17	20000	1476	2.06
4700	1773	0.40	8200	1752	0.71	12000	1767	1.03	20000	1703	1.78
4700	2031	0.35	8200	1961	0.63	12000	1978	0.92	20000	1819	1.67
4700	2202	0.32	8200	2339	0.53	12000	2317	0.79	20000	2172	1.40
4700	2422	0.29	8200	2409	0.52	12000	2386	0.76	20000	2443	1.24
4700	2873	0.25	8200	2764	0.45	12000	2738	0.67	20000	2678	1.13
4700	3190	0.22	8200	3138	0.40	12000	3109	0.59	20000	3091	0.98
4700	3654	0.20	8200	3512	0.35	12000	3479	0.52	20000	3301	0.92
4700	4014	0.18	8200	3912	0.32	12000	3875	0.47	20000	3912	0.78
4700	4526	0.16	8200	4299	0.29	12000	4258	0.43	20000	4263	0.71
4700	4837	0.15	8200	4882	0.26	12000	4836	0.38	20000	4800	0.63
4700	5624	0.13	8200	6074	0.20	12000	6016	0.30	20000	5257	0.58
4700	6567		8200	5743	0.22	12000	5682	0.32	20000	5963	0.51
4700	7018		8200	6522	0.19	12000	6453	0.28	20000	6714	0.45
4700	8160		8200	8114	0.15	12000	8028	0.23	20000	7353	0.41
4700	9177		8200	8622	0.14	12000	8531	0.21	20000	8501	0.36
4700	10027		8200	9969	0.12	12000	9863	0.18	20000	9062	0.34
4700	10992		8200	10545	0.12	12000	10433	0.17	20000	10468	0.29
4700	11948		8200	11858	0.10	12000	11732	0.16	20000	11901	0.26
			8200	12612		12000	12478	0.15	20000	13221	0.23
			8200	14247		12000	14095	0.13	20000	14869	0.20
									20000	16362	0.19

4 允许的径向力

4 Permissible Radial Force

4.1 输入轴径向力Fr1表(N)

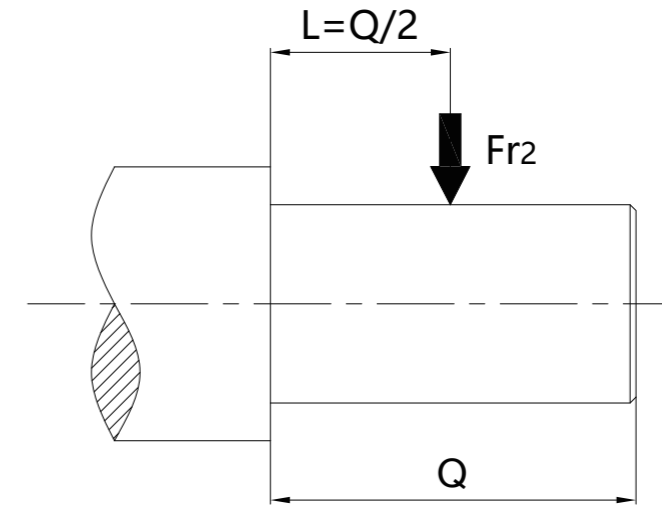
4.1 Radial force on input shaft (Fr1) (N)



	Fr1 (N)										
	F202 F302	F203 F303	F204 F304	F205 F305	F206 F306	F207 F307	F208 F308	F209 F309	F210 F310	F212 F312	F215 F315
AE2	803	803	803	803	803	803	803	/	/	/	/
AE3	/	/	/	1504	1504	1504	1504	1504	1504	/	/
AE4	/	/	/	/	/	2188	2188	2188	2188	2188	/
AE5	/	/	/	/	/	/	4207	4207	4207	4207	4207
AE6	/	/	/	/	/	/	/	5664	5664	5664	5664
AE7	/	/	/	/	/	/	/	/	/	9957	9957
AE8	/	/	/	/	/	/	/	/	/	12546	12546

4.2 输出轴径向力Fr2表(N)

4.2 Radial force on output shaft (Fr2) (N)



n2N (r/min)	Fr2 (N)										
	F202 F302	F203 F303	F204 F304	F205 F305	F206 F306	F207 F307	F208 F308	F209 F309	F210 F310	F212 F312	F215 F315
315~425	1281	1827	2079	3986	7641	9140	9210	9380	/	/	/
280~315	1334	1908	2115	4104	7965	9320	9480	9540	14000	28530	/
224~280	1378	1971	2151	4220	8280	9510	9770	10080	15300	28800	29050
200~224	1423	2043	2223	4396	8694	9700	10060	10080	18990	28980	29640
180~200	1448	2115	2277	4549	9090	9890	10360	10530	20880	33300	30250
160~180	1478	2115	2646	5095	9810	10090	10670	11520	21600	32760	30850
140~160	1548	2214	2925	5478	10260	10290	11000	12240	22500	31500	31450
125~140	1623	2322	3096	5357	9270	10500	11320	12240	20610	30600	33150
112~125	1695	2475	3366	5586	9270	10710	11660	12250	21870	32760	37350
100~112	1745	2547	3555	5741	9270	10920	12010	13000	22050	32760	38250
90~100	1892	2763	3888	6003	9270	11140	12370	13760	22700	33840	40410
80~90	1961	2862	4005	6093	9270	11370	12740	14590	24300	36000	42300
71~80	2090	3051	4293	6308	9270	11600	13130	15460	25290	37800	45810
63~71	2157	3150	4527	6478	9270	11820	13520	16400	27000	37800	45900
56~63	2410	3519	4923	6755	9270	12060	13930	17380	28980	48600	55350
45~56	2503	3654	5247	6974	9270	12300	14340	18420	30330	42750	54720
40~45	2644	3861	5328	7028	9270	12550	14770	19520	34470	47340	71370
35.5~40	2644	3861	5328	7028	9270	12800	15220	23400	35550	49320	74070
31.5~35.5	2644	3861	5328	7028	9270	13050	15670	21240	37800	52110	79020
28~31.5	2644	3861	5328	7028	9270	13320	16150	23220	39150	55620	83520
25~28	2644	3861	5328	7028	9270	13580	16630	23220	41820	58770	88470
22.4~25	2644	3861	5328	7028	9270	13850	17130	26100	43020	60660	74250
≤22.4	2644	3861	5328	7028	9270	14130	17640	26910	44820	63450	78300

5 外形尺寸图

5.1 F202/F302~F218/F318+MP

5 Dimensions

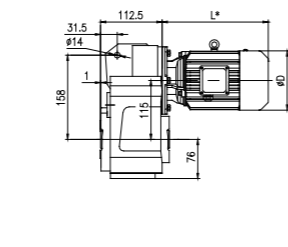
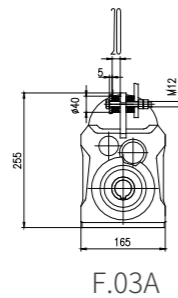
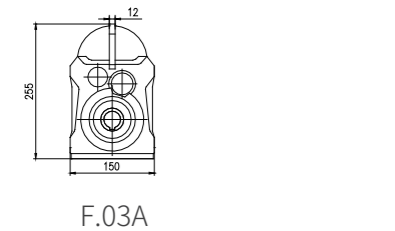
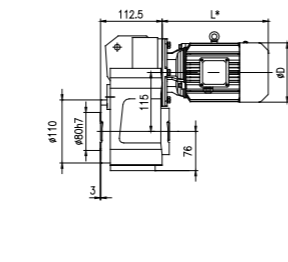
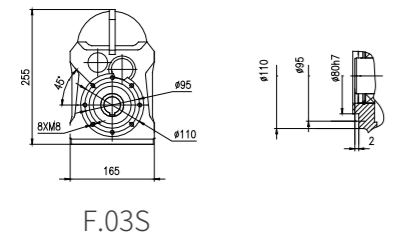
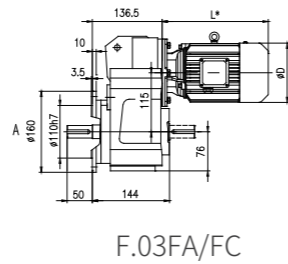
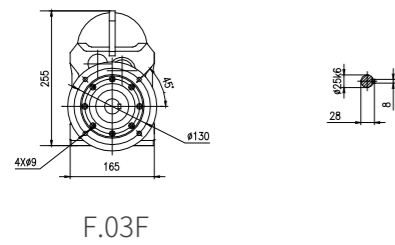
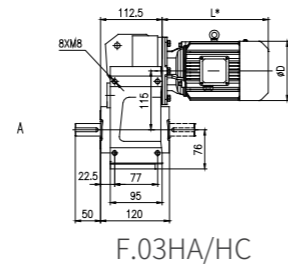
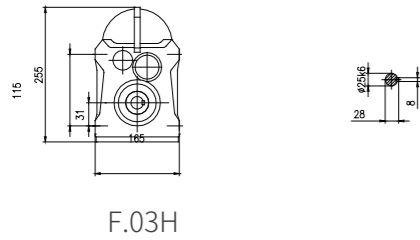
5.1 F202/F302~F218/F318+MP

F202/F302																																																																																									
<p>F.02H</p>	<p>F.02HA/HC</p>																																																																																								
<p>F.02F</p>	<p>F.02FA/FC</p>																																																																																								
<p>F.02S</p>																																																																																									
<p>F.02A</p>	<p>F.02A</p>																																																																																								
MP motor dimension for F202/F302																																																																																									
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P1/kW	iN			MP								D																																																																													
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0.37	4-71	223	268	263	313	313	353	139																																																																																	
0.55	4-50	299	344	359	404	404	454	162																																																																																	
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注:渐开线花键空心轴的花键规格DIN5480: Note: Involute spline size DIN5480: m1.25×z22×α30×D30×9H m1.25×z22×α30×D30×9H

F202/F302																																													
<p>F.02HG</p>	<p>F.02HI</p>	<p>F.02HK</p>																																											
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(F202/F302)/C.01		MP motor dimension for (F202/F302)/C.01																																											
<p>F302/C201</p>	<p>F302/C301</p>	<table border="1"> <thead> <tr> <th rowspan="2">P1/kW</th> <th rowspan="2">iN</th> <th colspan="7">MP</th> <th rowspan="2">D</th> </tr> <tr> <th>L1</th> <th>L2</th> <th>L3</th> <th>L5</th> <th>L6</th> <th>L7</th> </tr> </thead> <tbody> <tr> <td>0.12</td> <td>125-315</td> <td>206</td> <td>/</td> <td>241</td> <td>/</td> <td>/</td> <td>/</td> <td>124</td> </tr> <tr> <td>0.18</td> <td>125-200</td> <td>198</td> <td>/</td> <td>233</td> <td>/</td> <td>/</td> <td>/</td> <td>124</td> </tr> <tr> <td>0.25</td> <td>125-140</td> <td>221</td> <td>/</td> <td>256</td> <td>/</td> <td>/</td> <td>/</td> <td>139</td> </tr> </tbody> </table>	P1/kW	iN	MP							D	L1	L2	L3	L5	L6	L7	0.12	125-315	206	/	241	/	/	/	124	0.18	125-200	198	/	233	/	/	/	124	0.25	125-140	221	/	256	/	/	/	139
P1/kW	iN	MP							D																																				
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F203/F303

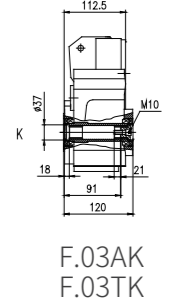
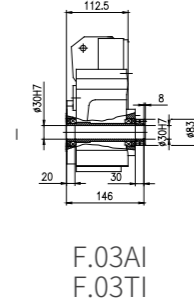
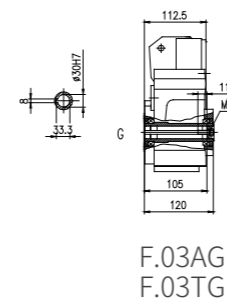
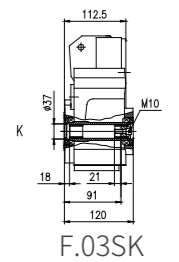
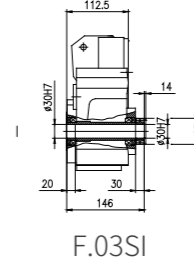
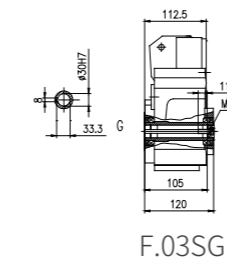
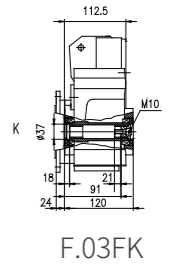
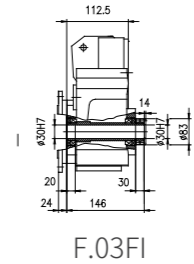
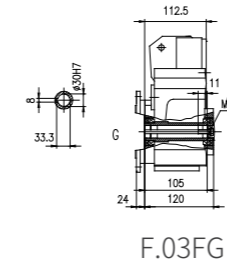
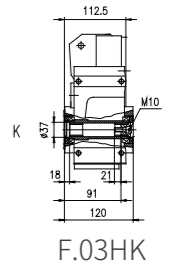
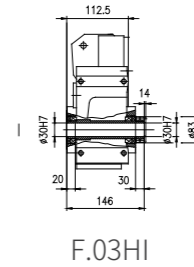
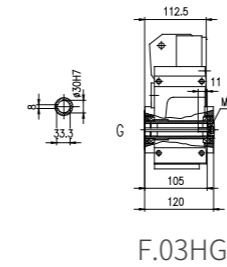


MP motor dimension for F203/F303

MP motor dimension for F203/F303	P1/kW	iN	MP							D
			L1	L2	L3	L5	L6	L7		
	0.12	4-125	206	261	241	296	/	/	124	
	0.18	4-125	206	261	241	296	/	/	124	
	0.25	4-125	223	268	263	313	313	353	139	
	0.37	4-125	223	268	263	313	313	353	139	
	0.55	4-80	299	344	359	404	404	454	162	
	0.75	4-56	299	344	359	404	404	454	162	
	1.1	4-40	322	367	377	422	422	477	176	
	1.5	4-28	347	392	402	447	447	502	176	
	2.2	4-20	394	434	469	509	509	564	202	
	3	4-14	394	434	469	509	509	564	202	

注:渐开线花键空心轴的花键规格DIN5480: Note: Involute spline size DIN5480: m1.25×z22×α30×D30×9H

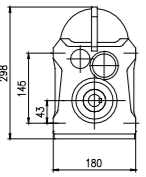
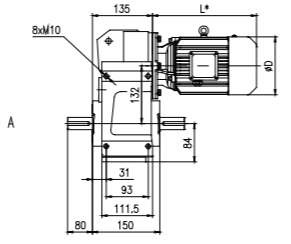
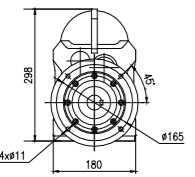
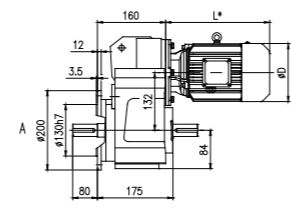
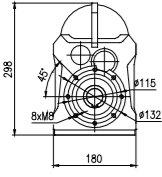
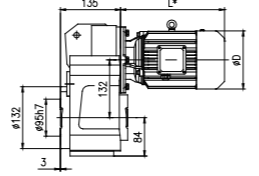
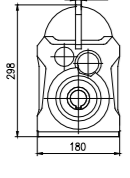
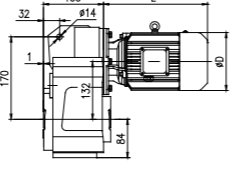
F203/F303



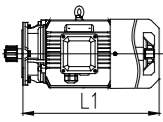
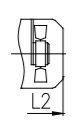
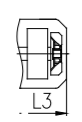
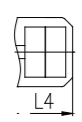
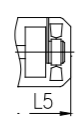
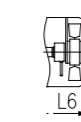

(F203/F303)/C.01

MP motor dimension for (F203/F303)/C.01

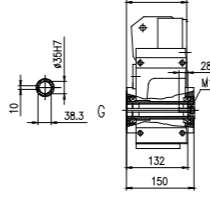
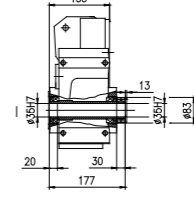
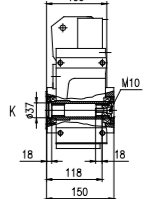
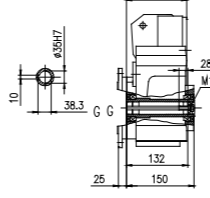
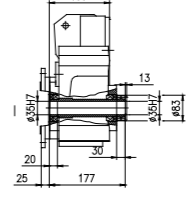
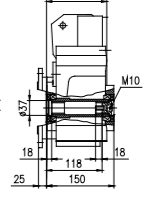
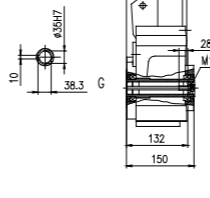
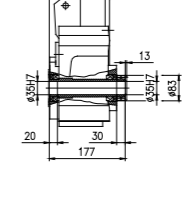
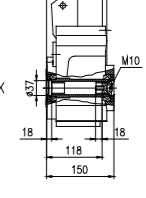
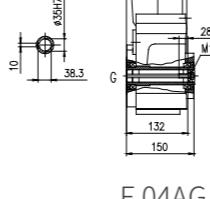
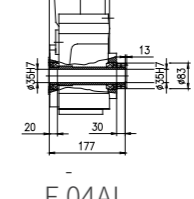
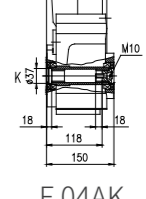
(F203/F303)/C.01	P1/kW	iN	MP							D
			L1	L2	L3	L5	L6	L7		
	0.12	125-500	206	/	241	/	/	/	124	
	0.18	125-280	198	/	233	/	/	/	124	
	0.25	125-224	221	/	256	/	/	/	139	
	0.37	125-140	221	/	256	/	/	/	139	

F204/F304	
 <p>F.04H</p>	 <p>F.04HA/HC</p>
 <p>F.04F</p>	 <p>F.04FA/FC</p>
 <p>F.04S</p>	
 <p>F.04A</p>	 <p>F.04A</p>

MP motor dimension for F204/F304

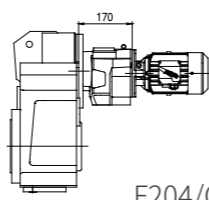
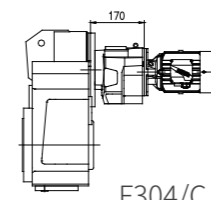
	P1/kW	iN	MP							D
			L1	L2	L3	L5	L6	L7		
	0.12	4.5-160	207	262	242	297	/	/	124	
	0.18	4.5-160	207	262	242	297	/	/	124	
	0.25	4.5-160	224	269	264	314	314	354	139	
	0.37	4.5-160	224	269	264	314	314	354	139	
	0.55	4.5-160	300	345	360	405	405	455	162	
	0.75	4.5-112	300	345	360	405	405	455	162	
	1.1	4.5-71	323	368	378	423	423	478	176	
	1.5	4.5-50	348	393	403	448	448	503	176	
	2.2	4.5-40	395	435	470	510	510	565	202	
	3	4.5-28	395	435	470	510	510	565	202	
	4	4.5-20	459	509	534	584	584	639	220	

注: 渐开线花键空心轴的花键规格DIN5480: m1.25×z22×α30×D30×9H Note: Involute spline size DIN5480: m1.25×z22×α30×D30×9H

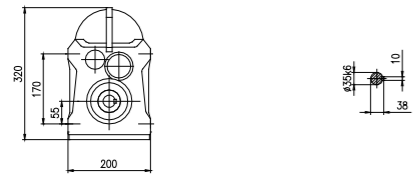
F204/F304		
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 <p>F.04FG</p>	 <p>F.04FI</p>	 <p>F.04FK</p>
 <p>F.04SG</p>	 <p>F.04SI</p>	 <p>F.04SK</p>
 <p>F.04AG F.04TG</p>	 <p>F.04AI F.04TI</p>	 <p>F.04AK F.04TK</p>

(F204/F304)/C.03

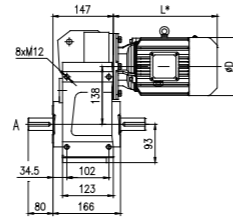
MP motor dimension for (F204/F304)/C.03

	P1/kW	iN	MP							D
			L1	L2	L3	L5	L6	L7		
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	0.18	140-630	206	/	241	/	/	/	124	
	0.25	140-500	228	/	263	/	/	/	139	
	0.37	140-280	228	/	263	/	/	/	139	
	0.55	140-180	299	/	359	/	/	/	162	

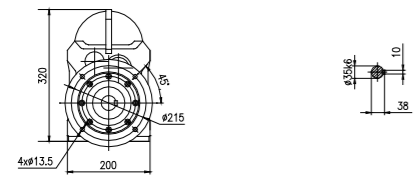
F205/F305



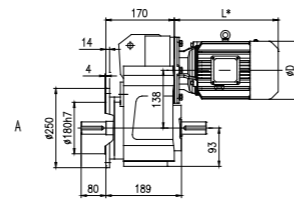
F.05H



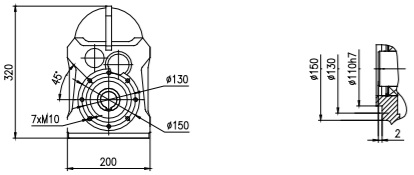
F.05HA/HC



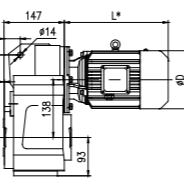
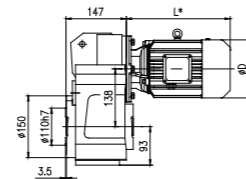
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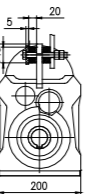
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F.05S

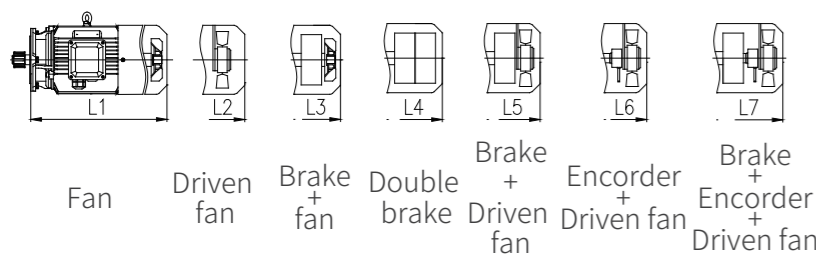


F.05A



F.05A

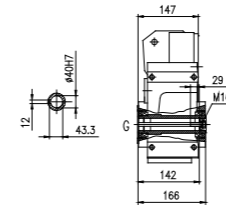
MP motor dimension for F205/F305



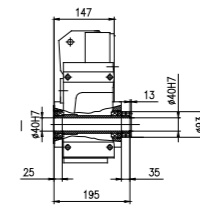
P1/kW	iN	MP							D
		L1	L2	L3	L5	L6	L7		
0.25	71-112	224	269	264	314	314	354	139	
0.37	63-112	224	269	264	314	314	354	139	
0.55	40-112	300	345	360	405	405	455	162	
0.75	31.5-112	300	345	360	405	405	455	162	
1.1	25-63	323	368	378	423	423	478	176	
1.5	16-63	348	393	403	448	448	503	176	
2.2	6.3-56	395	435	470	510	510	565	202	
3	4-40	395	435	470	510	510	565	202	
4	4-28	459	509	534	584	584	639	220	

注:渐开线花键空心轴的花键规格DIN5480: m1.25×z22×α30×D30×9H Note: Involute spline size DIN5480: m1.25×z22×α30×D30×9H

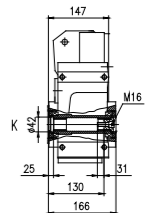
F205/F305



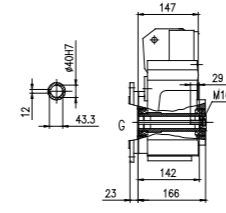
F.05HG



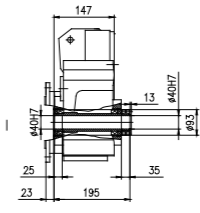
F.05HI



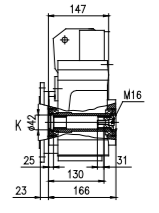
F.05HK



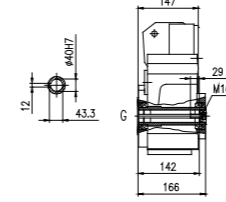
F.05FG



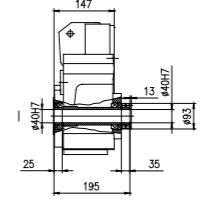
F.05FI



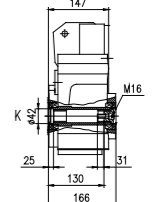
F.05FK



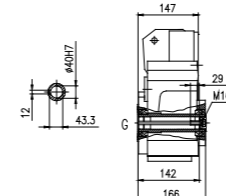
F.05SG



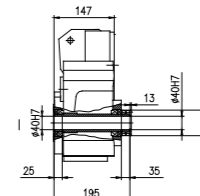
F.05SI



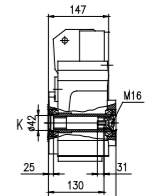
F.05SK



F.05AG
F.05TG



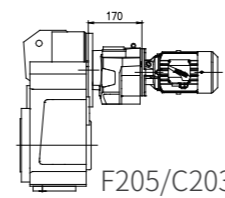
F.05AI
F.05TI



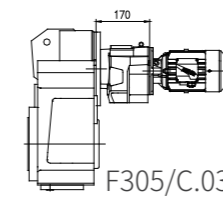
F.05AK
F.05TK

(F205/F305)/C.03

MP motor dimension for (F205/F305)/C.03



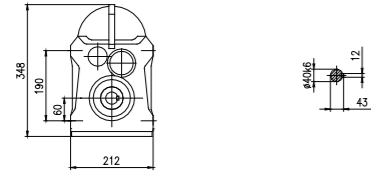
F205/C203



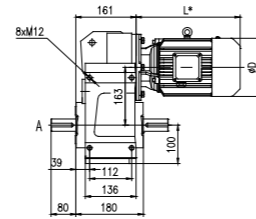
F305/C.03

P1/kW	iN	MP							D
		L1	L2	L3	L5	L6	L7		
0.12	140-1400	206	/	241	/	/	/	124	
0.18	140-900	206	/	241	/	/	/	124	
0.25	140-560	228	/	263	/	/	/	139	
0.37	140-355	228	/	263	/	/	/	139	
0.55	140-280	299	/	359	/	/	/	162	
0.75	140-180	299	344	359	404	404	454	162	

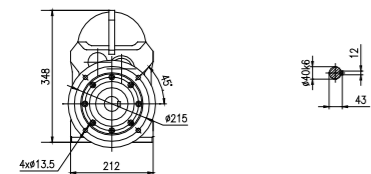
F206/F306



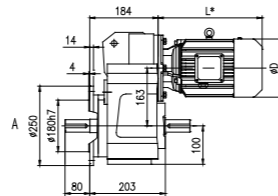
F.06H



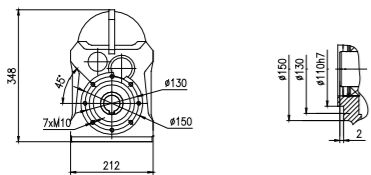
F.06HA/HC



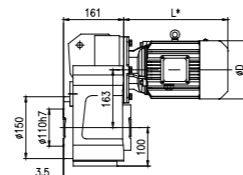
F.06F



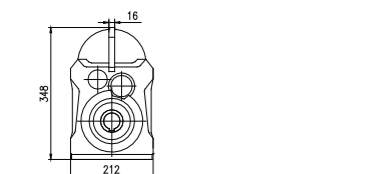
F.06FA/FC



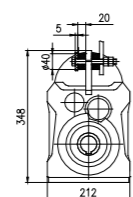
F.06S



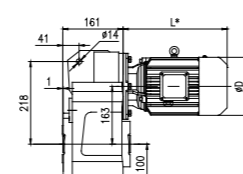
F.06SA/SC



F.06A

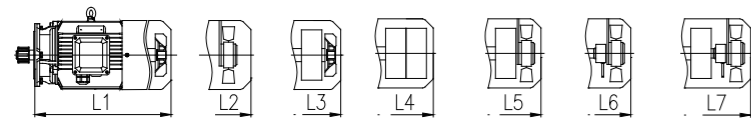


F.06A



F.06AA/AC

MP motor dimension for F206/F306

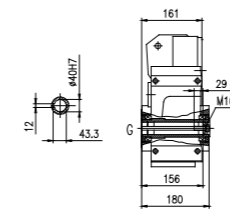


Fan, Driven fan, Brake + fan, Double brake, Brake + Driven fan, Encoder + Driven fan, Brake + Encoder + Driven fan

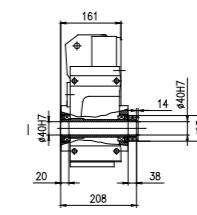
P1/kW	iN	MP							D
		L1	L2	L3	L5	L6	L7		
0.37	100-200	224	269	264	314	314	354	139	
0.55	63-200	300	345	360	405	405	455	162	
0.75	45-200	300	345	360	405	405	455	162	
1.1	31.5-112	323	368	378	423	423	478	176	
1.5	25-112	348	393	403	448	448	503	176	
2.2	16-80	395	435	470	510	510	565	202	
3	9-56	395	435	470	510	510	565	202	
4	6.3-40	459	509	534	584	584	639	220	
5.5	4-28	470	520	550	595	595	650	259	
7.5	4-22.4	508	558	588	633	633	688	259	

注:渐开线花键空心轴的花键规格DIN5480: Note: Involute spline size DIN5480: m1.25×z22×α30×D30×9H

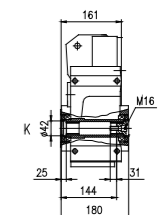
F206/F306



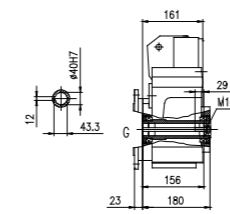
F.06HG



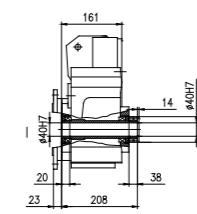
F.06HI



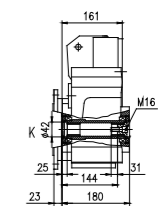
F.06HK



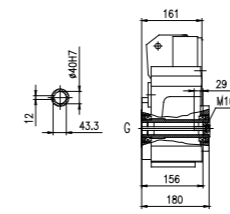
F.06FG



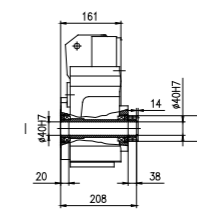
F.06FI



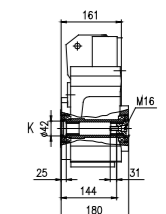
F.06FK



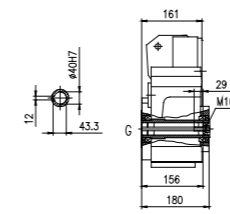
F.06SG



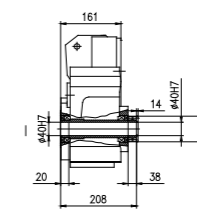
F.06SI



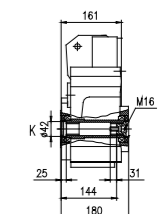
F.06SK



F.06AG
F.06TG



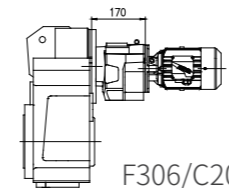
F.06AI
F.06TI



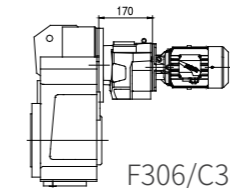
F.06AK
F.06TK

(F206/F306)/C.03

MP motor dimension for (F206/F306)/C.03



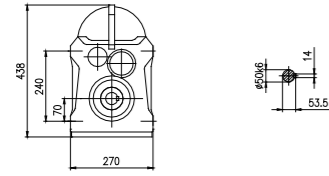
F306/C203



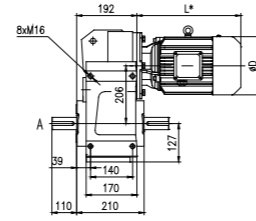
F306/C303

P1/kW	iN	MP						D
		L1	L2	L3	L5	L6	L7	
0.12	160-1800	206	/	241	/	/	/	124
0.18	160-1120	206	/	241	/	/	/	124
0.25	160-800	228	/	263	/	/	/	139
0.37	160-500	228	/	263	/	/	/	139
0.55	160-355	299	344	359	404	404	454	162
0.75	160-250	299	344	359	404	404	454	162
1.1	160-200	322	367	377	422	422	477	176

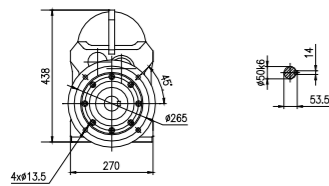
F207/F307



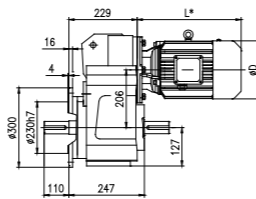
F.07H



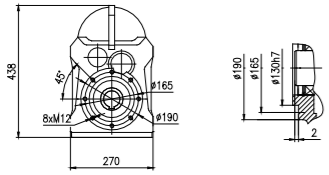
F.07HA/HC



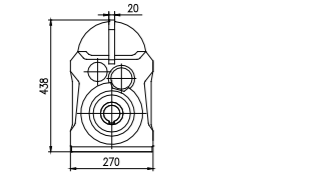
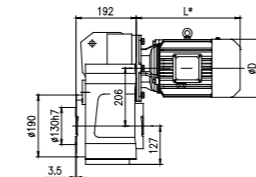
F.07F



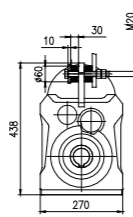
F.07FA/FC



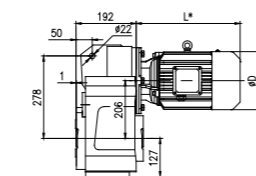
F.07S



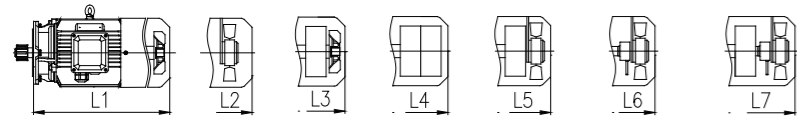
F.07A



F.07A



MP motor dimension for F207/F307

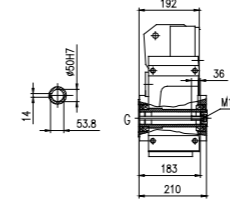


Fan
Driven fan
Brake + fan
Double brake
Brake + Driven fan
Encoder + Driven fan
Brake + Encoder + Driven fan

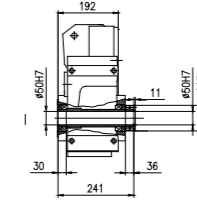
P1/kW	iN	MP							D
		L1	L2	L3	L5	L6	L7		
0.37	180-250	216	261	256	306	346	139		
0.55	125-250	292	337	352	397	397	447	162	
0.75	90-250	292	337	352	397	397	447	162	
1.1	63-160	315	360	370	415	415	470	176	
1.5	45-160	340	385	395	440	440	495	176	
2.2	28-140	387	427	462	502	502	557	202	
3	20-112	387	427	462	502	502	557	202	
4	14-80	451	501	526	576	576	631	220	
5.5	6.3-56	459	509	539	584	584	639	259	
7.5	4.5-40	497	547	577	622	622	677	259	
11	4-25	551	586	646	676	676	726	314	
15	4-20	581	616	676	706	706	756	314	

注:渐开线花键空心轴的花键规格DIN5480: Note: Involute spline size DIN5480:
m1.25×z22×α30×D30×9H m1.25×z22×α30×D30×9H

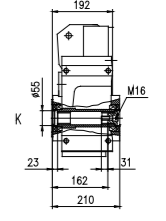
F207/F307



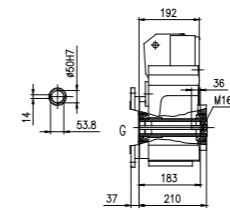
F.07HG



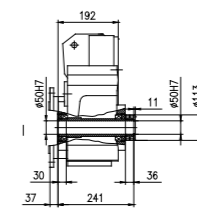
F.07HI



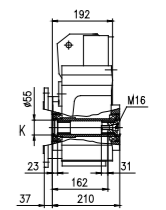
F.07HK



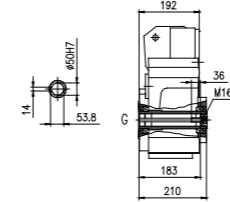
F.07FG



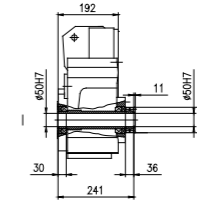
F.07FI



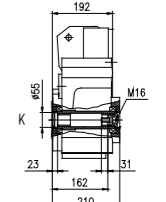
F.07FK



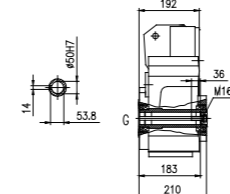
F.07SG



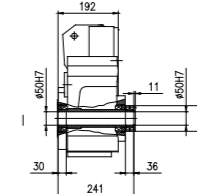
F.07SI



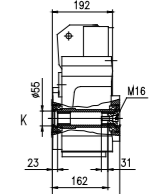
F.07SK



F.07AG
F.07TG



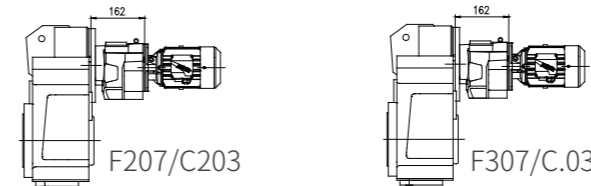
F.07AI
F.07TI



F.07AK
F.07TK

(F207/F307)/C.03

MP motor dimension for (F207/F307)/C.03

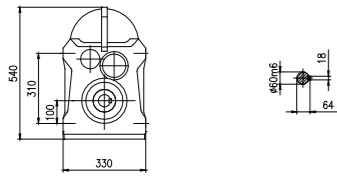


F207/C203

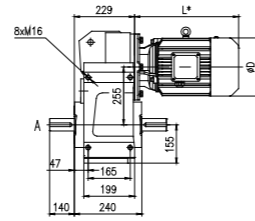
F307/C.03

P1/kW	iN	MP							D
		L1	L2	L3	L5	L6	L7		
0.12	160-3150	206	261	241	296	/	/	124	
0.18	160-2000	206	261	241	296	/	/	124	
0.25	160-1400	223	268	263	313	313	353	139	
0.37	160-1000	223	268	263	313	313	353	139	
0.55	160-630	299	344	359	404	404	454	162	
0.75	160-500	299	344	359	404	404	454	162	
1.1	160-315	322	367	377	422	422	477	176	
1.5	160-224	347	392	402	447	447	502	176	

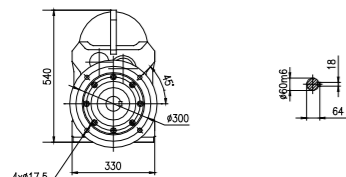
F208/F308



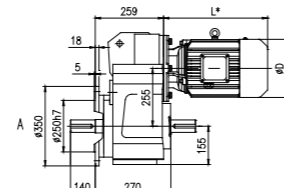
F.08H



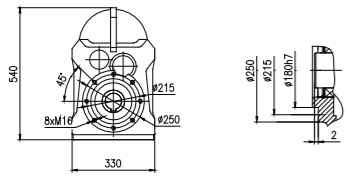
F.08HA/HC



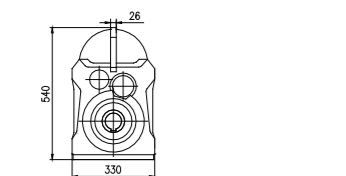
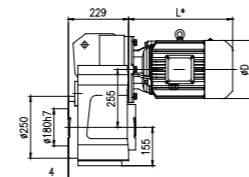
F.08F



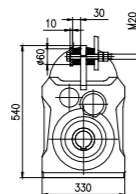
F.08FA/FC



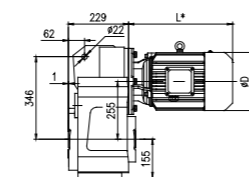
F.08S



F.08A



F.08A



MP motor dimension for F208/F308

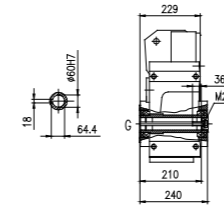


Fan
Driven fan
Brake + fan
Double brake
Brake + Driven fan
Encoder + Driven fan
Brake + Encoder + Driven fan

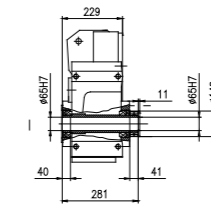
P1/kW	iN	MP							D
		L1	L2	L3	L5	L6	L7		
0.55	224-250	283	328	343	388	388	438	162	
0.75	180-250	283	328	343	388	388	438	162	
1.1	125-200	306	351	361	406	406	461	176	
1.5	90-200	331	376	386	431	431	486	176	
2.2	56-200	378	418	453	493	493	548	202	
3	45-200	378	418	453	493	493	548	202	
4	31.5-160	442	492	517	567	567	622	220	
5.5	22.4-100	451	501	531	576	576	631	259	
7.5	18-80	489	539	569	614	614	669	259	
11	11.2-50	550	585	645	675	675	725	314	
15	7.1-40	580	615	675	705	705	755	314	
18.5	5-31.5	621	651	731	756	756	801	356	
22	4-28	669	699	779	804	804	849	356	

注: 渐开线花键空心轴的花键规格DIN5480: Note: Involute spline size DIN5480: m1.25×z22×α30×D30×9H

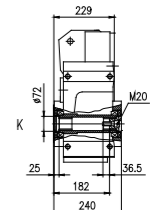
F208/F308



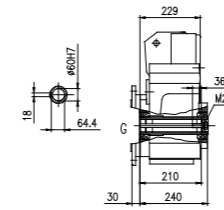
F.08HG



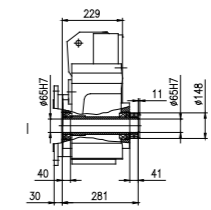
F.08HI



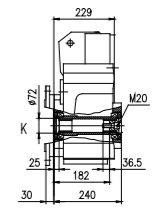
F.08HK



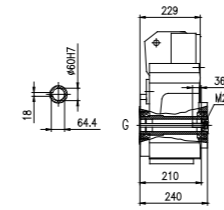
F.08FG



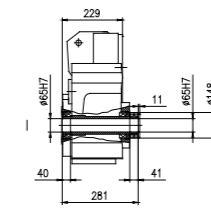
F.08FI



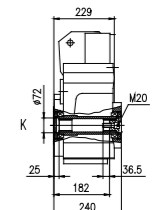
F.08FK



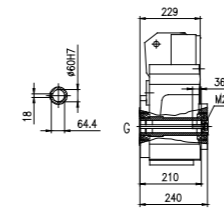
F.08SG



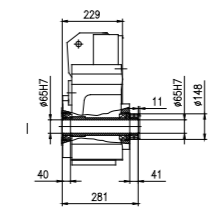
F.08SI



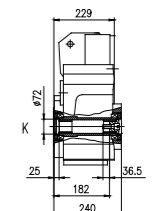
F.08SK



F.08AG
F.08TG



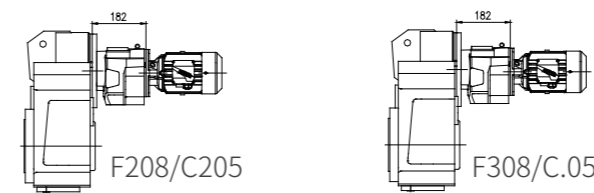
F.08AI
F.08TI



F.08AK
F.08TK

(F208/F308)/C.05

MP motor dimension for (F208/F308)/C.05

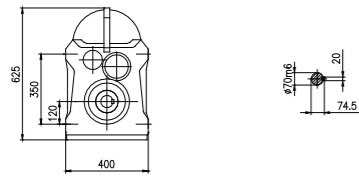


F208/C205

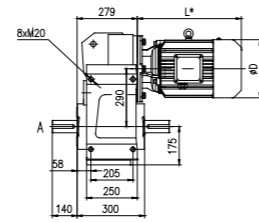
F308/C.05

P1/kW	iN	MP							D
		L1	L2	L3	L5	L6	L7		
0.12	160-5600	206	261	241	296	/	/	124	
0.18	160-4000	206	261	241	296	/	/	124	
0.25	160-2800	223	268	263	313	313	353	139	
0.37	160-1800	223	268	263	313	313	353	139	
0.55	160-1400	299	344	359	404	404	454	162	
0.75	160-1000	299	344	359	404	404	454	162	
1.1	160-630	322	367	377	422	422	477	176	
1.5	160-450	347	392	402	447	447	502	176	
2.2	160-315	394	434	469	509	509	564	202	
3	160-224	394	434	469	509	509	564	202	

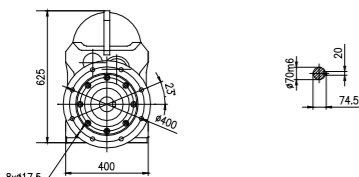
F209/F309



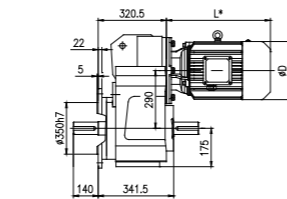
F.09H



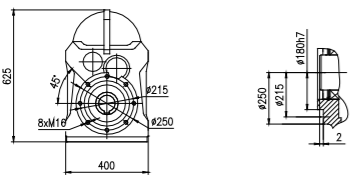
F.09HA/HC



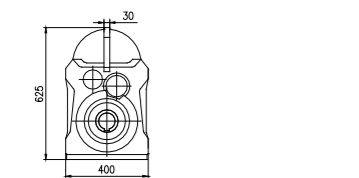
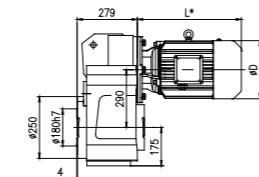
F.09F



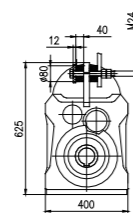
F.09FA/FC



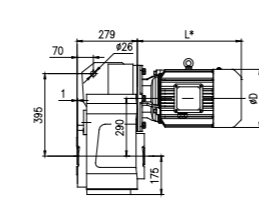
F.09S



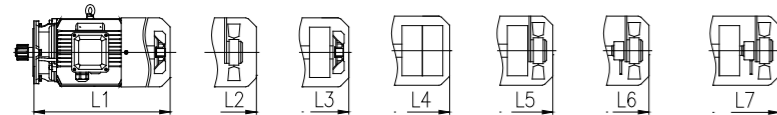
F.09A



F.09A



MP motor dimension for F209/F309

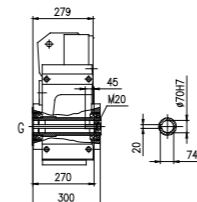


Fan Driven fan Brake + fan Double brake Brake + Driven fan Encorder + Driven fan Brake + Encorder + Driven fan

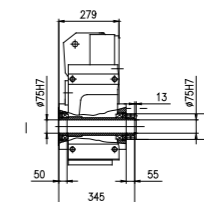
P1/kW	iN	MP							D
		L1	L2	L3	L5	L6	L7		
1.1	180-250	303	348	358	403	403	458	176	
1.5	125-250	328	373	383	428	428	483	176	
2.2	80-250	374	414	449	489	489	544	202	
3	63-250	374	414	449	489	489	544	202	
4	45-224	438	488	513	563	563	618	220	
5.5	31.5-140	450	500	530	575	575	630	259	
7.5	25-112	488	538	568	613	613	668	259	
11	16-80	544	579	639	669	669	719	314	
15	11.2-56	574	609	669	699	699	749	314	
18.5	9-45	615	645	725	750	750	795	356	
22	5.6-40	663	693	773	798	798	843	356	
30	4-28	705	710	820	825	825	870	398	

注:渐开线花键空心轴的花键规格DIN5480: Note: Involute spline size DIN5480: m1.25×z22×α30×D30×9H

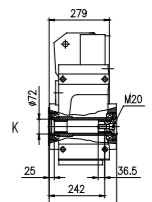
F209/F309



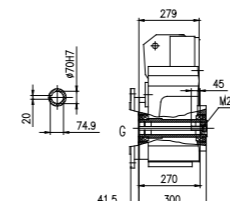
F.09HG



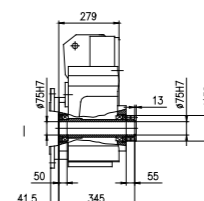
F.09HI



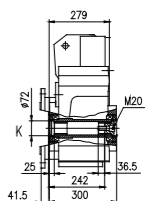
F.09HK



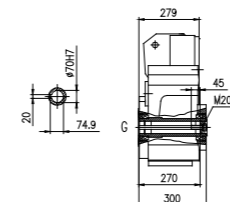
F.09FG



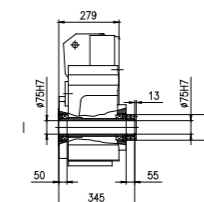
F.09FI



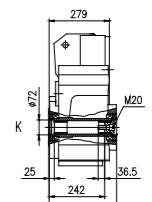
F.09FK



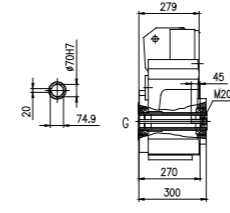
F.09SG



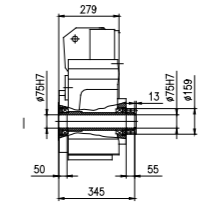
F.09SI



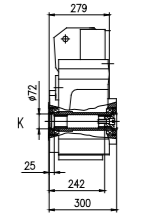
F.09SK



F.09AG
F.09TG



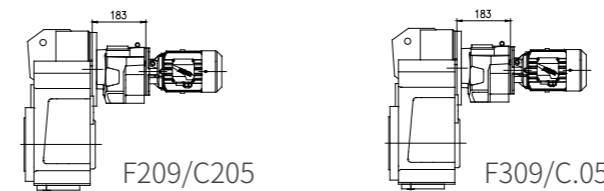
F.09AI
F.09TI



F.09AK
F.09TK

(F209/F309)/C.05

MP motor dimension for (F209/F309)/C.05

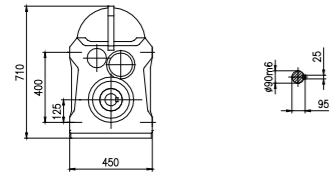


F209/C205

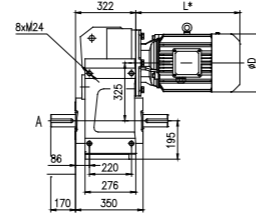
F309/C.05

P1/kW	iN	MP							D
		L1	L2	L3	L5	L6	L7		
0.12	160-9000	207	262	242	297	/	/	124	
0.18	160-5600	207	262	242	297	/	/	124	
0.25	160-4000	224	269	264	314	314	354	139	
0.37	160-2800	224	269	264	314	314	354	139	
0.55	160-2000	300	345	360	405	405	455	162	
0.75	160-1400	300	345	360	405	405	455	162	
1.1	160-1000	323	368	378	423	423	478	176	
1.5	160-800	348	393	403	448	448	503	176	
2.2	160-500	395	435	470	510	510	565	202	
3	160-400	395	435	470	510	510	565	202	
4	160-280	459	509	534	584	584	639	220	

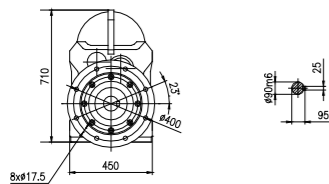
F210/F310



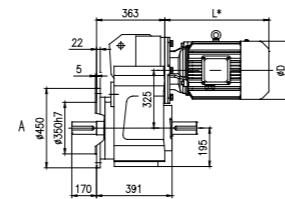
F.10H



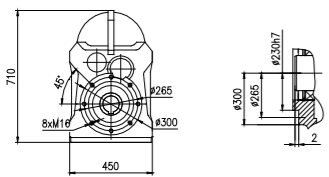
F.10HA/HC



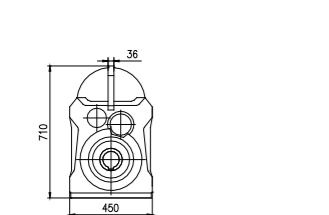
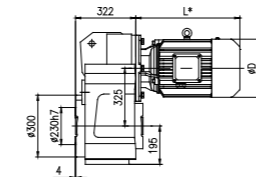
F.10F



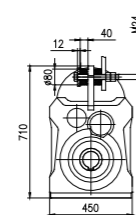
F.10FA/FC



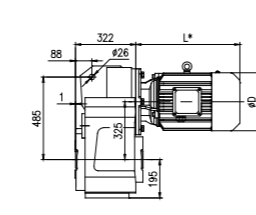
F.10S



F.10A



F.10A

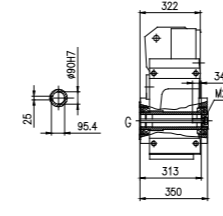


MP motor dimension for F210/F310

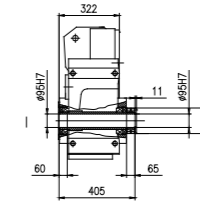
	P1/kW	iN	MP							D
			L1	L2	L3	L5	L6	L7		
	2.2	160-224	370	410	445	485	485	540	202	
	3	112-224	370	410	445	485	485	540	202	
	4	90-224	434	484	509	559	559	614	220	
	5.5	63-140	439	489	519	564	564	619	259	
	7.5	40-140	477	527	557	602	602	657	259	
	11	28-140	533	568	628	658	658	708	314	
	15	16-100	563	598	658	688	688	738	314	
	18.5	10-80	604	634	714	739	739	784	356	
	22	9-71	652	682	762	787	787	832	356	
	30	5.6-50	705	710	820	825	825	870	398	
	37	5-40	746	776	861	891	891	936	446	
	45	5-31.5	746	776	861	891	891	936	446	

注:渐开线花键空心轴的花键规格DIN5480: Note: Involute spline size DIN5480: m1.25×z22×α30×D30×9H

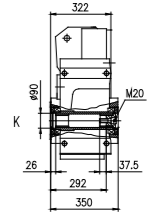
F210/F310



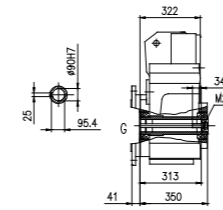
F.10HG



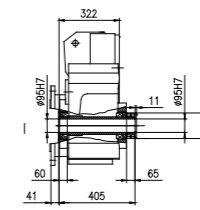
F.10HI



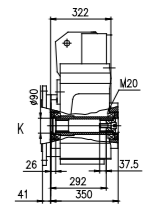
F.10HK



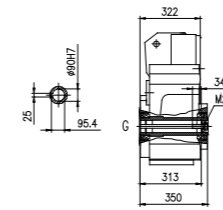
F.10FG



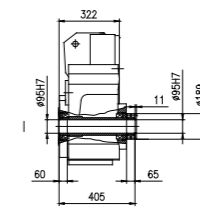
F.10FI



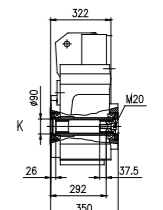
F.10FK



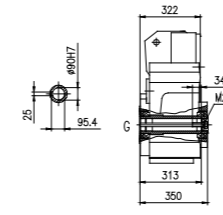
F.10SG



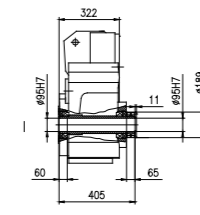
F.10SI



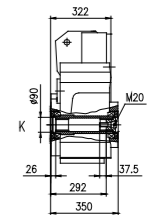
F.10SK



F.10AG
F.10TG

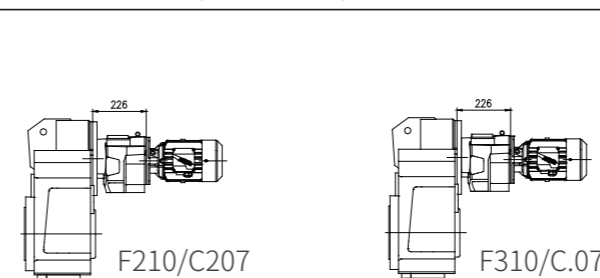


F.10AI
F.10TI



F.10AK
F.10TK

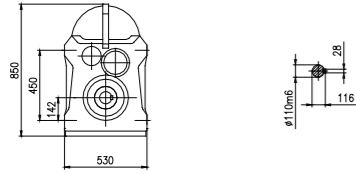
(F210/F310)/C.07



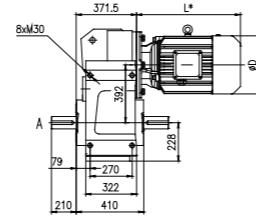
MP motor dimension for (F210/F310)/C.07

	P1/kW	iN	MP							D
			L1	L2	L3	L5	L6	L7		
	0.12	355-12500	207	262	242	297	/	/	124	
	0.18	355-10000	207	262	242	297	/	/	124	
	0.25	355-7100	224	269	264	314	314	354	139	
	0.37	355-5000	224	269	264	314	314	354	139	
	0.55	355-3550	300	345	360	405	405	455	162	
	0.75	355-2500	300	345	360	405	405	455	162	
	1.1	160-1800	323	368	378	423	423	478	176	
	1.5	160-1250	348	393	403	448	448	503	176	
	2.2	160-800	395	435	470	510	510	565	202	
	3	160-630	395	435	470	510	510	565	202	
	4	160-450	459	509	534	584	584	639	220	
	5.5	160-250	459	509	539	584	584	639	259	
	7.5	160-250	497	547	577	622	622	677	259	

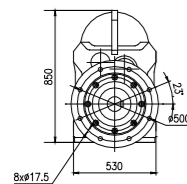
F212/F312



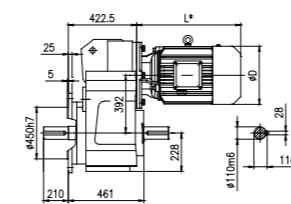
F.12H



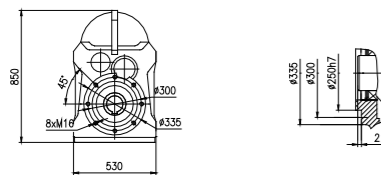
F.12HA/HC



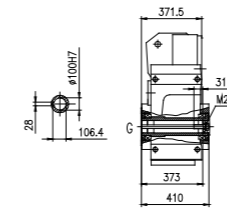
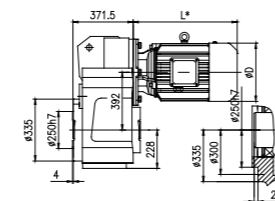
F.12F



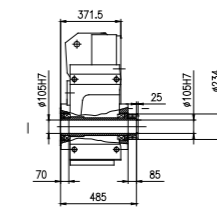
F.12FA/FC



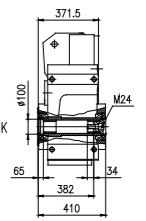
F.12S



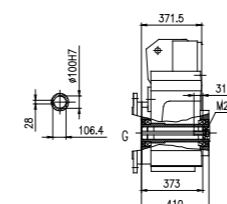
F.12HG



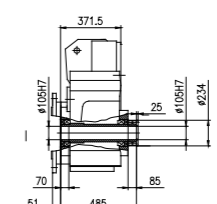
F.12HI



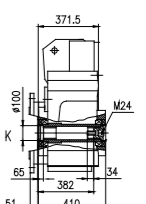
F.12HK



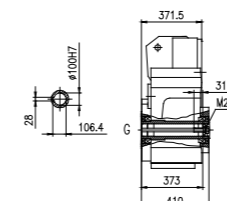
F.12FG



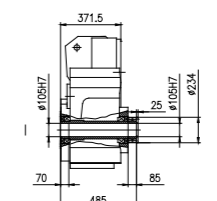
F.12FI



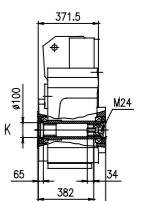
F.12FK



F.12SG



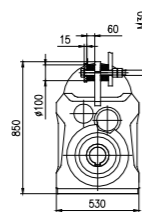
F.12SI



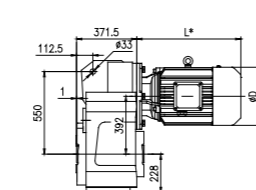
F.12SK



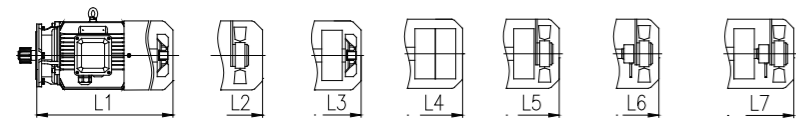
F.12A



F.12A



MP motor dimension for F212/F312



Fan
Driven fan
Brake + fan
Double brake
Brake + Driven fan
Encoder + Driven fan
Brake + Encoder + Driven fan

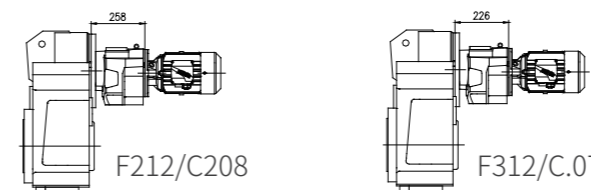
P1/kW	iN	MP							D
		L1	L2	L3	L5	L6	L7		
4	125-224	423	473	498	548	548	603	220	
5.5	90-180	429	479	509	554	554	609	259	
7.5	63-180	467	517	547	592	592	647	259	
11	45-180	517	552	612	642	642	692	314	
15	31.5-140	547	582	642	672	672	722	314	
18.5	25-125	588	618	698	723	723	768	356	
22	22.4-100	636	666	746	771	771	816	356	
30	14-71	684	689	799	804	804	849	398	
37	11.2-56	725	755	840	870	870	915	446	
45	7.1-50	725	755	840	870	870	915	446	
55	5-40	841	856	981	991	991	1036	485	
75	5-28	886	916	1026	1061	1061	1106	547	
90	5-25	937	967	1077	1112	1112	1157	547	

注: 渐开线花键空心轴的花键规格DIN5480: Note: Involute spline size DIN5480:
m1.25×z22×α30×D30×9H m1.25×z22×α30×D30×9H

F212/F312

F212/C208, F312/C.07

MP motor dimension for (F212/C208, F312/C.07)

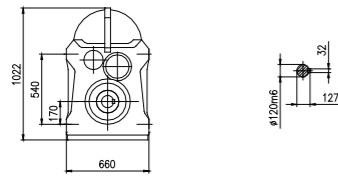


F212/C208

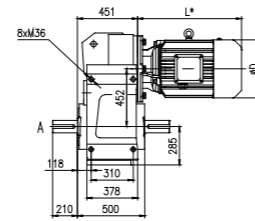
F312/C.07

P1/kW	iN	MP							D
		L1	L2	L3	L5	L6	L7		
0.12	400-14000	199	254	234	289	/	/	124	
0.18	400-14000	199	254	234	289	/	/	124	
0.25	400-14000	216	261	256	306	306	346	139	
0.37	400-8000	216	261	256	306	306	346	139	
0.55	400-5000	292	337	352	397	397	447	162	
0.75	400-4000	292	337	352	397	397	447	162	
1.1	160-2800	315	360	370	415	415	470	176	
1.5	160-2000	340	385	395	440	440	495	176	
2.2	160-1400	387	427	462	502	502	557	202	
3	160-900	387	427	462	502	502	557	202	
4	160-710	451	501	526	576	576	631	220	
5.5	160-400	451	501	531	576	576	631	259	
7.5	160-355	489	539	569	614	614	669	259	
11	160-250	550	585	645	675	675	725	314	

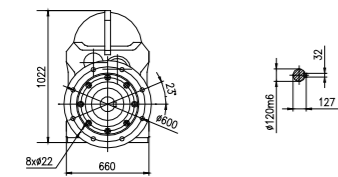
F215/F315



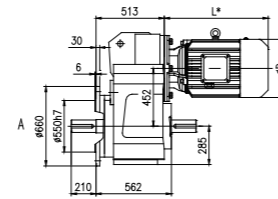
F.15H



F.15HA/HC



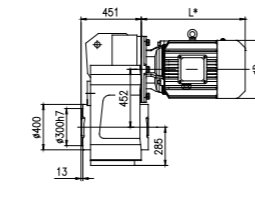
F.15F



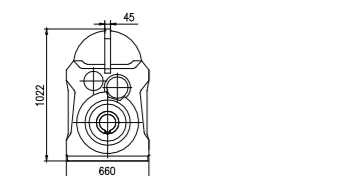
F.15FA/FC



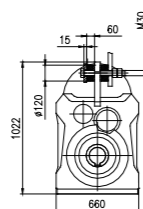
F.15S



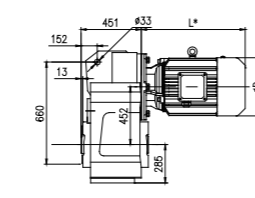
F.15SG



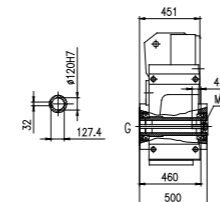
F.15A



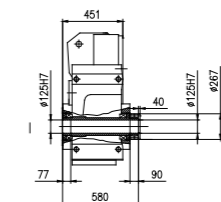
F.15A



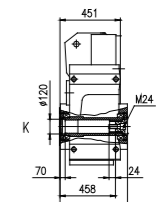
F.15AG
F.15TG



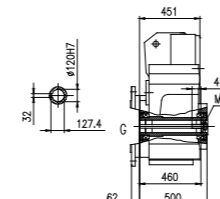
F.15HG



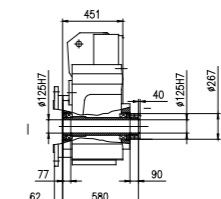
F.15HI



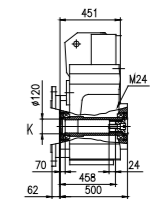
F.15HK



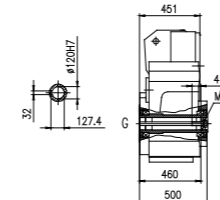
F.15FG



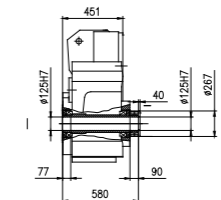
F.15FI



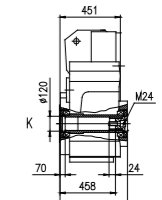
F.15FK



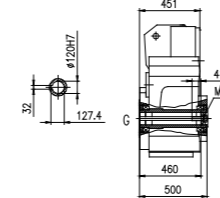
F.15SG



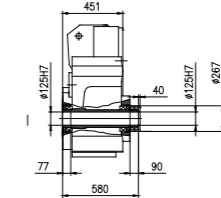
F.15SI



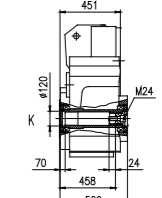
F.15SK



F.15AG
F.15TI

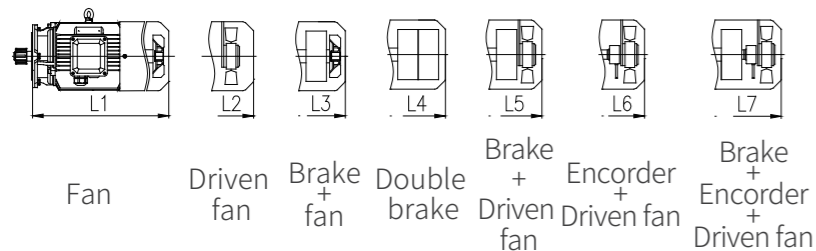


F.15AI
F.15TI



F.15AK
F.15TK

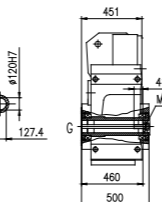
MP motor dimension for F215/F315



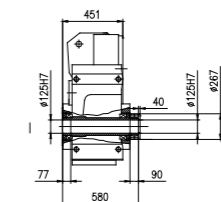
P1/kW	iN	MP							D
		L1	L2	L3	L5	L6	L7		
7.5	112-180	467	517	547	592	592	647	259	
11	71-180	502	537	597	627	627	677	314	
15	56-180	532	567	627	657	657	707	314	
18.5	45-180	573	603	683	708	708	753	356	
22	35.5-180	621	651	731	756	756	801	356	
30	28-125	674	679	789	794	794	839	398	
37	20-100	715	745	830	860	860	905	446	
45	16-80	715	745	830	860	860	905	446	
55	12.5-71	831	846	971	981	981	1026	485	
75	8-50	876	906	1016	1051	1051	1096	547	
90	7.1-40	927	957	1067	1102	1102	1147	547	

注: 渐开线花键空心轴的花键规格DIN5480: Note: Involute spline size DIN5480: m1.25×z22×α30×D30×9H

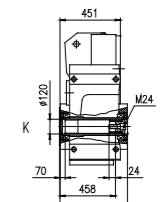
F215/F315



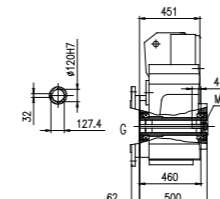
F.15HG



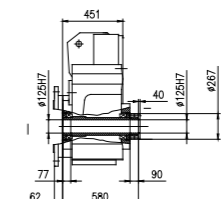
F.15HI



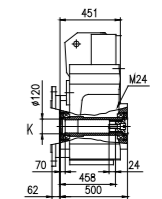
F.15HK



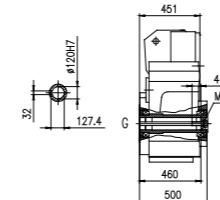
F.15FG



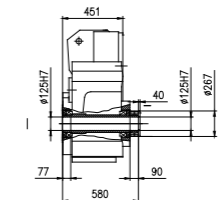
F.15FI



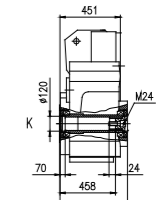
F.15FK



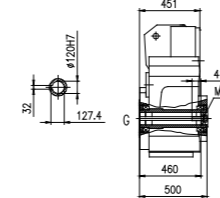
F.15SG



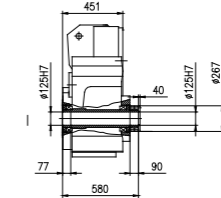
F.15SI



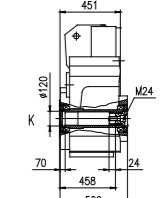
F.15SK



F.15AG
F.15TI

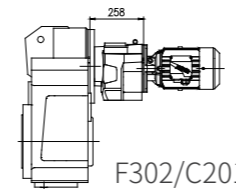


F.15AI
F.15TI

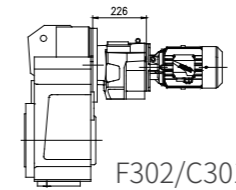


F.15AK
F.15TK

(F215/F315)/C.09



F302/C201



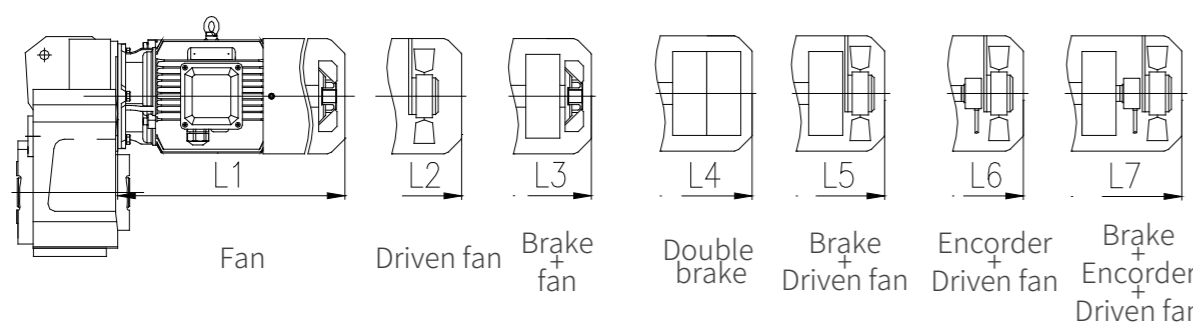
F302/C301

MP motor dimension for (F215/F315)/C.09

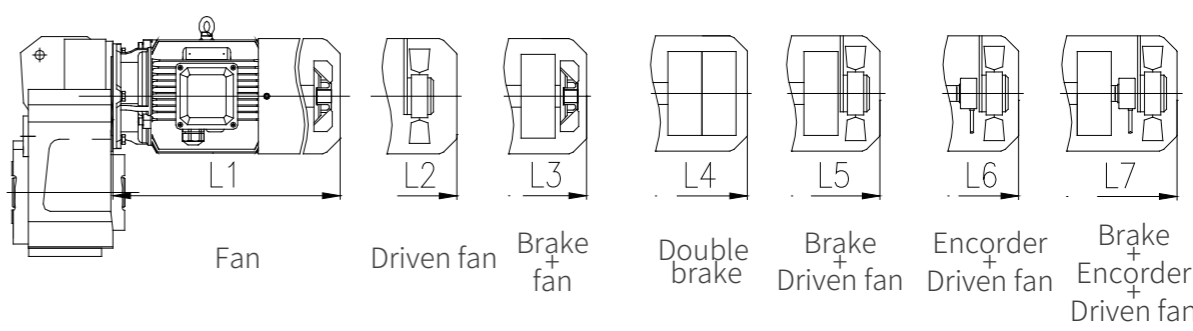
P1/kW	iN	MP							D
		L1	L2	L3	L5	L6	L7		
1.1	160-4500	315	360	370	415	415	470	176	
1.5	160-3150	340	385	395	440	440	495	176	
2.2	160-2240	387	427	462	502	502	557	202	
3	160-1600	387	427	462	502	502	557	202	
4	160-1250	451	501	526	576	576	631	220	
5.5	160-400	451	501	531	576	576	631	259	
7.5	160-400	489	539	569	614	614	669	259	
11	160-400	550	585	645	675	675	725	314	
15	160-315	580	615	675	705	705	755	314	
18.5	160-280	621	651	731	756	756	801	356	
22	160-224	669	699	779	804	804	849	356	

5.2 直连MU电机尺寸

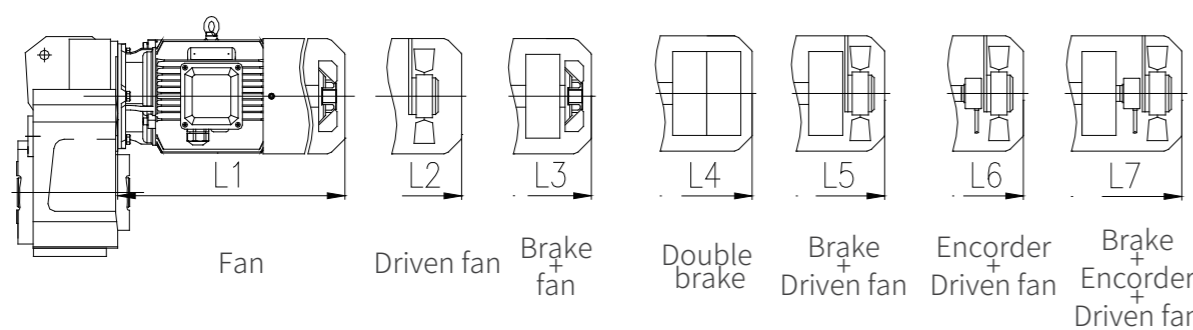
5.2 Dimension for Directly-connected Motor Mu



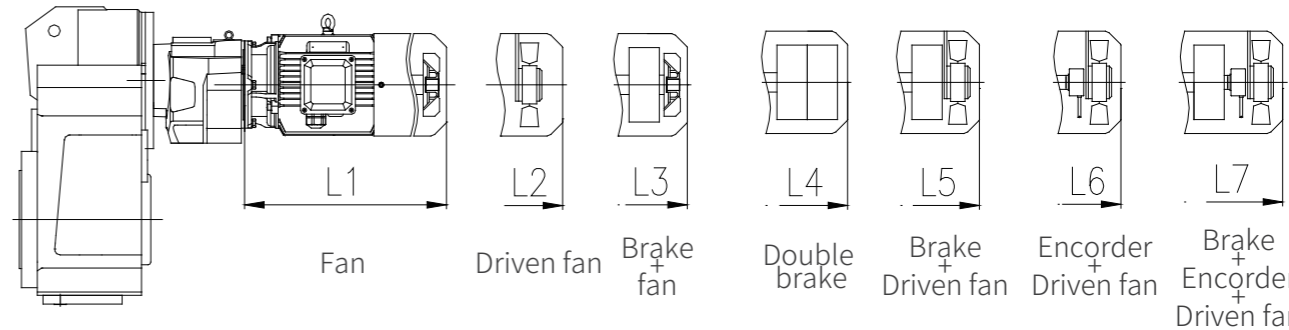
Size	P ₁ /kW	i _N	L1	L2	L3	L5	L6	L7	D
F202/ F302	0.12	4-112	206	261	241	296	/	/	124
	0.18	4-112	206	261	241	296	/	/	124
	0.25	4-112	228	268	263	323	323	358	139
	0.37	4-71	299	344	359	409	409	454	159
	0.55	4-50	299	344	359	409	409	454	159
	0.75	4-35.5	322	367	377	427	427	477	176
	1.1	4-25	322	367	377	427	427	477	176
	1.5	4-18	393	433	468	508	508	563	199
F203/ F303	0.12	4-125	206	261	241	296	/	/	124
	0.18	4-125	206	261	241	296	/	/	124
	0.25	4-125	228	268	263	323	323	358	139
	0.37	4-125	299	344	359	409	409	454	159
	0.55	4-80	299	344	359	409	409	454	159
	0.75	4-56	322	367	377	427	427	477	176
	1.1	4-40	322	367	377	427	427	477	176
	1.5	4-28	393	433	468	508	508	563	199
	2.2	4-20	393	433	468	508	508	563	199
F204/ F304	0.12	4.5-160	207	262	242	297	/	/	124
	0.18	4.5-160	207	262	242	297	/	/	124
	0.25	4.5-160	229	269	264	324	324	359	139
	0.37	4.5-160	300	345	360	410	410	455	159
	0.55	4.5-140	300	345	360	410	410	455	159
	0.75	4.5-112	323	368	378	428	428	478	176
	1.1	4.5-71	323	368	378	428	428	478	176
	1.5	4.5-50	394	434	469	509	509	564	199
	2.2	4.5-40	394	434	469	509	509	564	199
	3	4.5-28	459	509	534	584	584	639	220
F205/ F305	0.25	71-112	229	269	264	324	324	359	139
	0.37	63-112	300	345	360	410	410	455	159
	0.55	40-112	300	345	360	410	410	455	159
	0.75	31.5-112	323	368	378	428	428	478	176
	1.1	25-63	323	368	378	428	428	478	176
	1.5	16-63	394	434	469	509	509	564	199
	2.2	6.3-56	394	434	469	509	509	564	199
	3	4-40	459	509	534	584	584	639	220
	4	4-28	470	520	550	595	595	650	259



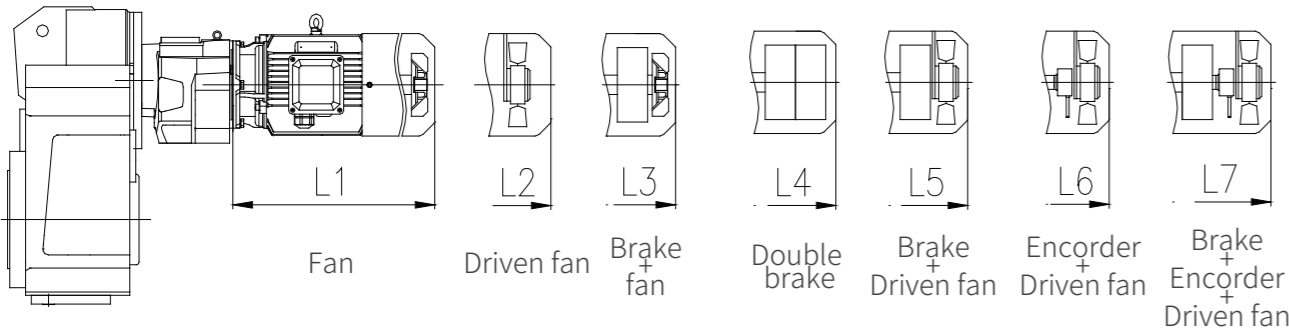
Size	P ₁ /kW	i _N	L1	L2	L3	L5	L6	L7	D	
F206/ F306	0.37	100-200	300	345	360	410	410	455	159	
	0.55	63-200	300	345	360	410	410	455	159	
	0.75	45-200	323	368	378	428	428	478	176	
	1.1	31.5-112	323	368	378	428	428	478	176	
	1.5	25-112	394	434	469	509	509	564	199	
	2.2	16-80	394	434	469	509	509	564	199	
	3	9-56	459	509	534	584	584	639	220	
	4	6.3-40	470	520	550	595	595	650	259	
	5.5	4-28	508	558	588	633	633	688	259	
	F207/ F307	0.37	180-250	292	337	352	402	402	447	159
0.55		125-250	292	337	352	402	402	447	159	
0.75		90-250	315	360	370	420	420	470	176	
1.1		63-160	315	360	370	420	420	470	176	
1.5		45-160	387	427	462	502	502	557	199	
2.2		28-140	387	427	462	502	502	557	199	
3		20-112	451	501	526	576	576	631	220	
4		14-80	459	509	539	584	584	639	259	
5.5		6.3-56	497	547	577	622	622	677	259	
7.5		4.5-40	551	586	646	681	681	736	314	
11		4-25	581	616	676	711	711	766	314	
F208/ F308		0.55	224-250	283	328	343	393	393	438	159
	0.75	180-250	306	351	361	411	411	461	176	
	1.1	125-200	306	351	361	411	411	461	176	
	1.5	90-200	378	418	453	493	493	548	199	
	2.2	56-200	378	418	453	493	493	548	199	
	3	45-200	442	492	517	567	567	622	220	
	4	31.5-160	451	501	531	576	576	631	259	
	5.5	22.4-100	489	539	569	614	614	669	259	
	7.5	18-80	550	585	645	680	680	735	314	
	11	11.2-50	580	615	675	710	710	765	314	
	15	7.1-40	621	651	731	756	756	811	356	
	18.5	5-31.5	669	699	779	804	804	859	356	
	F209/ F309	1.1	180-250	303	348	358	408	408	458	176
		1.5	125-250	370	410	445	485	485	540	199
		2.2	80-250	370	410	445	485	485	540	199
3		63-250	434	484	509	559	559	614	220	
4		45-224	439	489	519	564	564	619	259	
5.5		31.5-140	477	527	557	602	602	657	259	
7.5		25-112	533	568	628	663	663	718	314	
11		16-80	563	598	658	693	693	750	314	
15		11.2-56	604	634	714	739	739	794	356	
18.5		9-45	652	682	762	787	787	842	356	
22		5.6-40	705	710	820	825	825	880	398	



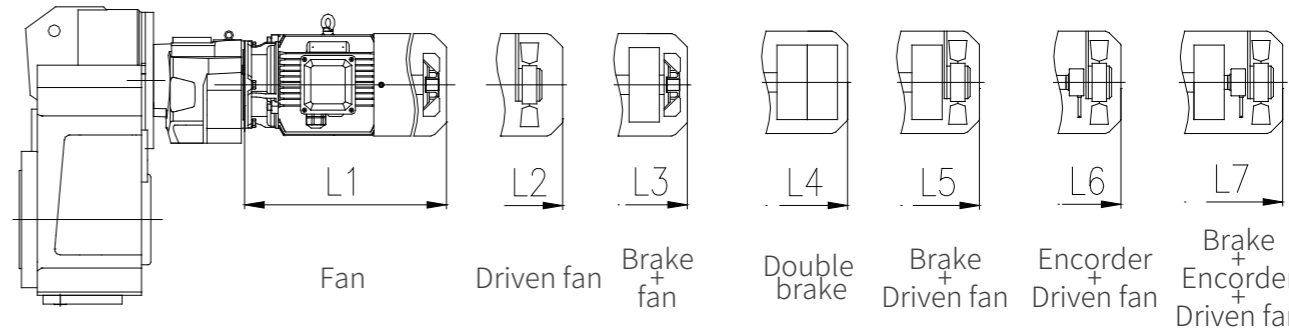
Size	P ₁ /kW	i _N	L1	L2	L3	L5	L6	L7	D
F210/ F310	2.2	160-224	370	410	445	485	485	540	199
	3	112-224	434	484	509	559	559	614	220
	4	90-224	439	489	519	564	564	619	259
	5.5	63-140	477	527	557	602	602	657	259
	7.5	40-140	533	568	628	663	663	718	314
	11	28-140	563	598	658	693	693	750	314
	15	16-100	604	634	714	739	739	794	356
	18.5	10-80	652	682	762	787	787	842	356
	22	9-71	705	710	820	825	825	880	398
F212/ F312	30	5.6-50	746	776	861	891	891	946	446
	37	5-40	746	776	861	891	891	946	446
	4	125-224	439	489	519	564	564	619	259
	5.5	90-180	477	527	557	602	602	657	259
	7.5	63-180	533	568	628	663	663	718	314
	11	45-180	563	598	658	693	693	750	314
	15	31.5-140	604	634	714	739	739	794	356
	18.5	25-125	652	682	762	787	787	842	356
	22	22.4-100	705	710	820	825	825	880	398
	30	14-71	746	776	861	891	891	946	446
	37	11.2-56	746	776	861	891	891	946	446
	45	7.1-50	831	846	971	981	981	1036	485
F215/ F315	55	5-40	876	906	1016	1051	1051	1106	547
	75	5-28	927	957	1067	1102	1102	1157	547
	90	5-25	927	957	1067	1102	1102	1157	547
	7.5	112-180	502	537	597	632	632	687	314
	11	71-180	532	567	627	662	662	719	314
	15	56-180	573	603	683	708	708	763	356
	18.5	45-180	621	651	731	756	756	811	356
	22	35.5-180	674	679	789	794	794	849	398
	30	28-125	715	745	830	860	860	915	446
	37	20-100	715	745	830	860	860	915	446
	45	16-80	831	846	971	981	981	1036	485
	55	12.5-71	876	906	1016	1051	1051	1106	547
75	8-50	927	957	1067	1102	1102	1157	547	
90	7.1-40	927	957	1067	1102	1102	1157	547	



Size	P ₁ /kW	i _N	L1	L2	L3	L5	L6	L7	D
F302/C. 01	0.12	125-315	206	261	241	296	/	/	124
	0.18	125-200	206	261	241	296	/	/	124
	0.25	125-140	228	268	263	323	323	358	139
F203/C201 F303/C. 01	0.12	125-500	206	261	241	296	/	/	124
	0.18	125-280	206	261	241	296	/	/	124
	0.25	125-224	228	268	263	323	323	358	139
F204/C203 F304/C. 03	0.37	125-140	299	344	359	409	409	454	139
	0.12	140-900	206	261	241	296	/	/	124
	0.18	140-630	206	261	241	296	/	/	124
F205/C203 F305/C. 03	0.25	140-500	228	268	263	323	323	358	139
	0.37	140-280	299	344	359	409	409	454	139
	0.55	140-180	299	344	359	409	409	454	162
F306/C. 03	0.75	140-180	322	367	377	427	427	477	162
	0.12	140-1400	206	261	241	296	/	/	124
	0.18	140-900	206	261	241	296	/	/	124
	0.25	140-560	228	268	263	323	323	358	139
	0.37	140-355	299	344	359	409	409	454	139
	0.55	140-280	299	344	359	409	409	454	162
	0.75	140-180	322	367	377	427	427	477	162
F207/C203 F307/C. 03	1.1	160-200	322	367	377	427	427	477	176
	0.12	160-1800	206	261	241	296	/	/	124
	0.18	160-1120	206	261	241	296	/	/	124
	0.25	160-800	228	268	263	323	323	358	139
	0.37	160-500	299	344	359	409	409	454	139
	0.55	160-355	299	344	359	409	409	454	162
	0.75	160-250	322	367	377	427	427	477	162
F207/C203 F307/C. 03	1.1	160-315	322	367	377	427	427	477	176
	1.5	160-224	393	433	468	508	508	563	176
	2.2	160	393	433	468	508	508	563	202
	0.12	160-3150	206	261	241	296	/	/	124
	0.18	160-2000	206	261	241	296	/	/	124
	0.25	160-1400	228	268	263	323	323	358	139
	0.37	160-1000	299	344	359	409	409	454	139
	0.55	160-630	299	344	359	409	409	454	162



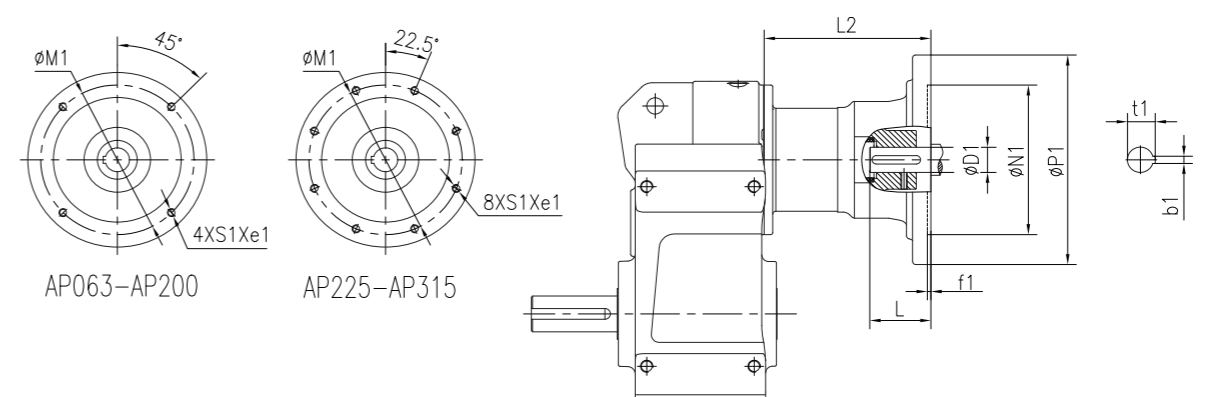
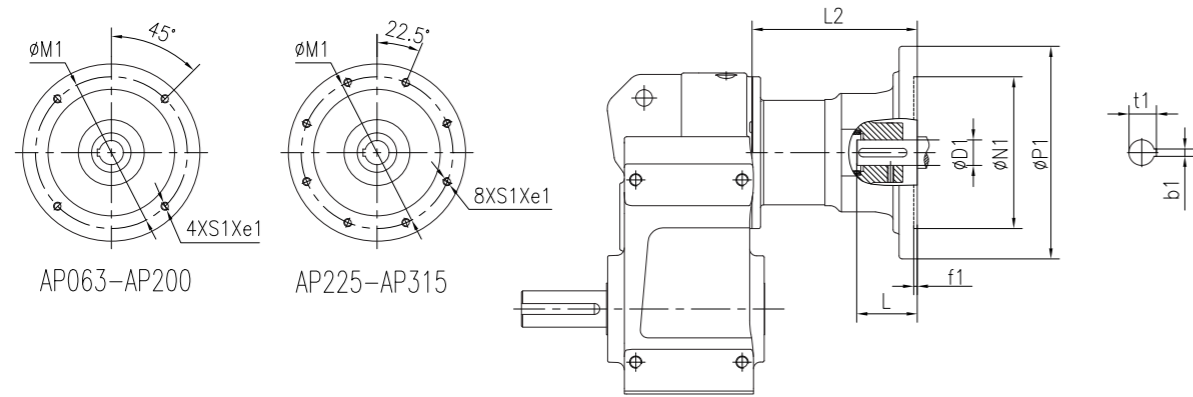
Size	P ₁ /kW	iN	L1	L2	L3	L5	L6	L7	D
F208/C205 F308/C. 05	0.12	160-5600	207	262	242	297	/	/	124
	0.18	160-4000	207	262	242	297	/	/	124
	0.25	160-2800	229	269	264	324	324	359	139
	0.37	160-1800	300	345	360	410	410	455	139
	0.55	160-1400	300	345	360	410	410	455	162
	0.75	160-1000	323	368	378	428	428	478	162
	1.1	160-630	323	368	378	428	428	478	176
	1.5	160-450	394	434	469	509	509	564	176
	2.2	160-315	394	434	469	509	509	564	202
F209/C205 F309/C. 05	0.12	160-9000	207	262	242	297	/	/	124
	0.18	160-5600	207	262	242	297	/	/	124
	0.25	160-4000	229	269	264	324	324	359	139
	0.37	160-2800	300	345	360	410	410	455	139
	0.55	160-2000	300	345	360	410	410	455	162
	0.75	160-1400	323	368	378	428	428	478	162
	1.1	160-1000	323	368	378	428	428	478	176
	1.5	160-800	394	434	469	509	509	564	176
	2.2	160-500	394	434	469	509	509	564	202
F210/C207 F310/C. 07	0.12	355-12500	207	262	242	297	/	/	124
	0.18	355-10000	207	262	242	297	/	/	124
	0.25	355-7100	221	261	256	316	316	351	139
	0.37	355-5000	292	337	352	402	402	447	139
	0.55	355-3550	292	337	352	402	402	447	162
	0.75	355-2500	315	360	370	420	420	470	162
	1.1	160-1800	315	360	370	420	420	470	176
	1.5	160-1250	387	427	462	502	502	557	176
	2.2	160-800	387	427	462	502	502	557	202
	3	160-630	451	501	526	576	576	631	202
	4	160-450	459	509	539	584	584	639	220
	7.5	160-250	497	547	577	622	622	677	259



Size	P ₁ /kW	iN	L1	L2	L3	L5	L6	L7	D	
F212/C208 F312/C. 07	0.25	400-14000	221	261	256	316	316	351	139	
	0.37	400-8000	292	337	352	402	402	447	139	
	0.55	400-5000	292	337	352	402	402	447	162	
	0.75	400-4000	315	360	370	420	420	470	162	
	1.1	160-2800	315	360	370	420	420	470	176	
	1.5	160-2000	387	427	462	502	502	557	176	
	2.2	160-1400	378	418	453	493	493	548	202	
	3	160-900	442	492	517	567	567	622	202	
	4	160-710	451	501	531	576	576	631	220	
	5.5	160-400	489	539	569	614	614	669	259	
	7.5	160-355	550	585	645	680	680	735	259	
	11	160-250	580	615	675	710	710	765	314	
	15	160-180	621	651	731	756	756	811	314	
	F215/C209 F315/C. 09	1.1	160-4500	303	348	358	408	408	458	176
		1.5	160-3150	374	414	449	489	489	544	176
2.2		160-2240	374	414	449	489	489	544	202	
3		160-1600	438	488	513	563	563	618	202	
4		160-1250	439	489	519	564	564	619	220	
5.5		160-400	477	527	557	602	602	657	259	
7.5		160-400	533	568	628	663	663	718	259	
11		160-400	563	598	658	693	693	750	314	
15		160-315	604	634	714	739	739	794	314	
18.5		160-280	652	682	762	787	787	842	356	
22	160-224	705	710	820	825	825	880	356		

6 输入法兰和输入轴
6.1 F系列 AP输入法兰
外形尺寸 (mm)

6 Input Flange & Input Shaft
6.1 F Series Dimensions of
AP Input Flange (mm)

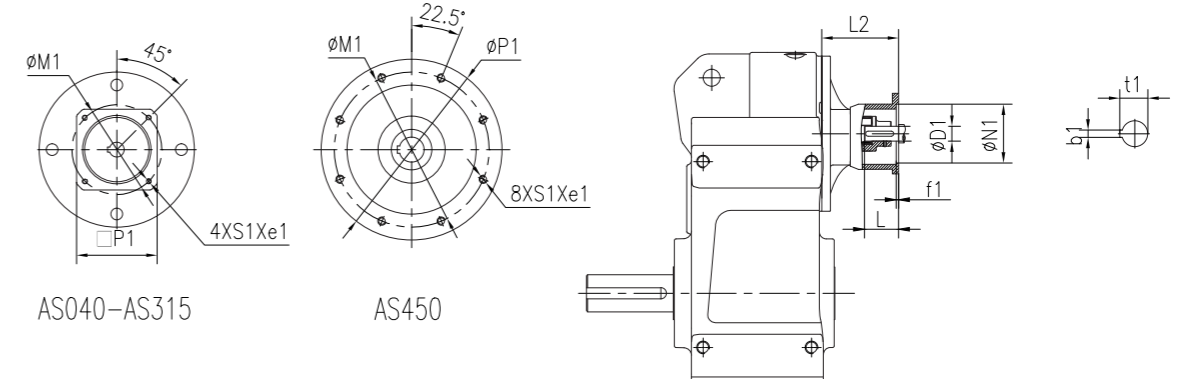
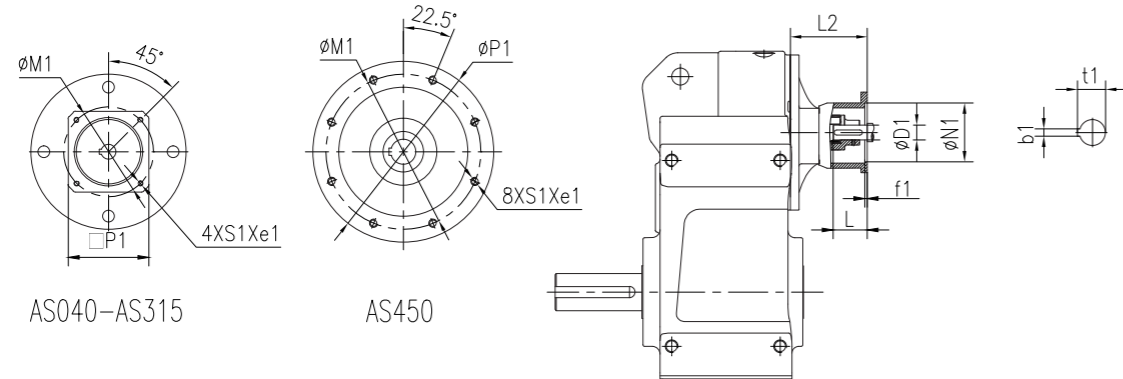


Size	Flange	i_N	e_1	D1	N1	M1	P1	f1	b1	t1	L	S1	L2	Weight (kg)
F202 F302	AP063	4-112	14	11H7	95H7	115	140	4	4	12.8	23	M8	59	4.8
	AP071	4-112	14	14H7	110H7	130	160	4	5	16.3	30	M8	59	4.8
	AP080	4-50	18	19H7	130H7	165	200	4	6	21.8	40	M10	74	7.6
F203 F303	AP063	4-125	14	11H7	95H7	115	140	4	4	12.8	23	M8	59	4.8
	AP071	4-125	14	14H7	110H7	130	160	4	5	16.3	30	M8	59	4.8
	AP080	4-80	18	19H7	130H7	165	200	4	6	21.8	40	M10	74	7.6
F204 F304	AP063	4.5-160	14	11H7	95H7	115	140	4	4	12.8	23	M8	61	5.1
	AP071	4.5-160	14	14H7	110H7	130	160	4	5	16.3	30	M8	61	5.1
	AP080	4.5-140	18	19H7	130H7	165	200	4	6	21.8	40	M10	76	8.6
	AP090	4.5-71	18	24H7	130H7	165	200	4	8	27.3	50	M10	81	9.2
	AP100	4.5-40	28	28H7	180H7	215	250	5	8	31.3	60	M12	191	14.1
	AP112	4.5-20	28	28H7	180H7	215	250	5	8	31.3	60	M12	191	14.1
F205 F305	AP063	4-140	14	11H7	95H7	115	140	4	4	12.8	23	M8	61	5.1
	AP071	4-140	14	14H7	110H7	130	160	4	5	16.3	30	M8	61	5.1
	AP080	4-140	18	19H7	130H7	165	200	4	6	21.8	40	M10	76	8.6
	AP090	4-80	18	24H7	130H7	165	200	4	8	27.3	50	M10	81	9.2
	AP100	4-56	28	28H7	180H7	215	250	5	8	31.3	60	M12	191	14.1
	AP112	4-31.5	28	28H7	180H7	215	250	5	8	31.3	60	M12	191	14.1
F206 F306	AP063	4-200	14	11H7	95H7	115	140	4	4	12.8	23	M8	61	5.1
	AP071	4-200	14	14H7	110H7	130	160	4	5	16.3	30	M8	61	5.1
	AP080	4-200	18	19H7	130H7	165	200	4	6	21.8	40	M10	76	8.6
	AP090	4-112	18	24H7	130H7	165	200	4	8	27.3	50	M10	81	9.2
	AP100	4-80	28	28H7	180H7	215	250	5	8	31.3	60	M12	191	14.1
	AP112	4-40	28	28H7	180H7	215	250	5	8	31.3	60	M12	191	14.1
	AP132	4-40	28	28H7	180H7	215	250	5	8	31.3	60	M12	191	14.1
F207 F307	AP071	20-250	14	14H7	110H7	130	160	4	5	16.3	30	M8	53	6.7
	AP080	20-250	18	19H7	130H7	165	200	4	6	21.8	40	M10	68	10.3
	AP090	4-160	18	24H7	130H7	165	200	4	8	27.3	50	M10	73	11.1
	AP100	4-140	28	28H7	180H7	215	250	5	8	31.3	60	M12	181	15.5
	AP112	4-80	28	28H7	180H7	215	250	5	8	31.3	60	M12	181	15.5
	AP132	4-56	28	38H7	230H7	265	300	5	10	41.3	80	M12	210	22.3

Size	Flange	i_N	e_1	D1	N1	M1	P1	f1	b1	t1	L	S1	L2	Weight (kg)
F208 F308	AP080	112-250	18	19H7	130H7	165	200	4	6	21.8	40	M10	65	10.4
	AP090	4-200	18	24H7	130H7	165	200	4	8	27.3	50	M10	66	12.1
	AP100	4-200	28	28H7	180H7	215	250	5	8	31.3	60	M12	171	18.2
	AP112	4-160	28	28H7	180H7	215	250	5	8	31.3	60	M12	171	18.2
	AP132	4-100	28	38H7	230H7	265	300	5	10	41.3	80	M12	203	24.9
	AP160	4-50	40	42H7	250H7	300	350	6	12	45.3	110	M16	272	46.4
	AP180	4-31.5	40	48H7	250H7	300	350	6	14	51.8	110	M16	272	46.4
F209 F309	AP090	4-250	18	24H7	130H7	165	200	4	8	27.3	50	M10	61	14.7
	AP100	4-250	28	28H7	180H7	215	250	5	8	31.3	60	M12	172	21.5
	AP112	4-224	28	28H7	180H7	215	250	5	8	31.3	60	M12	172	21.5
	AP132	4-140	28	38H7	230H7	265	300	5	10	41.3	80	M12	202	28.3
	AP160	4-80	40	42H7	250H7	300	350	6	12	45.3	110	M16	270	49.9
	AP180	4-45	40	48H7	250H7	300	350	6	14	51.8	110	M16	270	49.9
	AP200	4-28	40	55H7	300H7	350	400	6	16	59.3	110	M16	327	72.8
F210 F310	AP100	16-224	28	28H7	180H7	215	250	5	8	31.3	60	M12	162	25.6
	AP112	16-224	28	28H7	180H7	215	250	5	8	31.3	60	M12	162	25.6
	AP132	5-140	28	38H7	230H7	265	300	5	10	41.3	80	M12	189	33.7
	AP160	5-140	40	42H7	250H7	300	350	6	12	45.3	110	M16	257	52.3
	AP180	5-80	40	48H7	250H7	300	350	6	14	51.8	110	M16	257	52.3
	AP200	5-50	40	55H7	300H7	350	400	6	16	59.3	110	M16	327	77.4
	AP225	5-40	30	60H7	350H7	400	450	6	18	64.4	140	M16	354	85.1
	AP250	5-40	32	65H7	450H7	500	550	7	18	69.4	140	M16	361	131.3
F212 F312	AP132	5-180	28	38H7	230H7	265	300	5	10	41.3	80	M12	175	46.4
	AP160	5-180	40	42H7	250H7	300	350	6	12	45.3	110	M16	243	66.9
	AP180	5-125	40	48H7	250H7	300	350	6	14	51.8	110	M16	243	66.9
	AP200	5-71	40	55H7	300H7	350	400	6	16	59.3	110	M16	316	89.8
	AP225	5-56	30	60H7	350H7	400	450	6	18	64.4	140	M16	343	97.5
	AP250	5-40	32	65H7	450H7	500	550	7	18	69.4	140	M16	361	131.3
	AP280	5-28	32	75H7	450H7	500	550	7	20	79.9	140	M16	361	131.3
	AP315	6.3-35.5	35	80H7	550H7	600	660	7	22	85.4	170	M20	447	262.5
F215 F315	AP160	14-180	40	42H7	250H7	300	350	6	12	45.3	110	M16	233	90.9
	AP180	14-180	40	48H7	250H7	300	350	6	14	51.8	110	M16	233	90.9
	AP200	6.3-125	40	55H7	300H7	350	400	6	16	59.3	110	M16	298	109.4
	AP225	6.3-100	30	60H7	350H7	400	450	6	18	64.4	140	M16	325	117.1
	AP250	6.3-71	32	65H7	450H7	500	550	7	18	69.4	140	M16	343	147.8
	AP280	6.3-50	32	75H7	450H7	500	550	7	20	79.9	140	M16	343	147.8
	AP315	6.3-35.5	35	80H7	550H7	600	660	7	22	85.4	170	M20	447	262.5

6.2 F系列 AS输入法兰
外形尺寸 (mm)

6.2 F Series Dimensions of
AS Input Flange (mm)

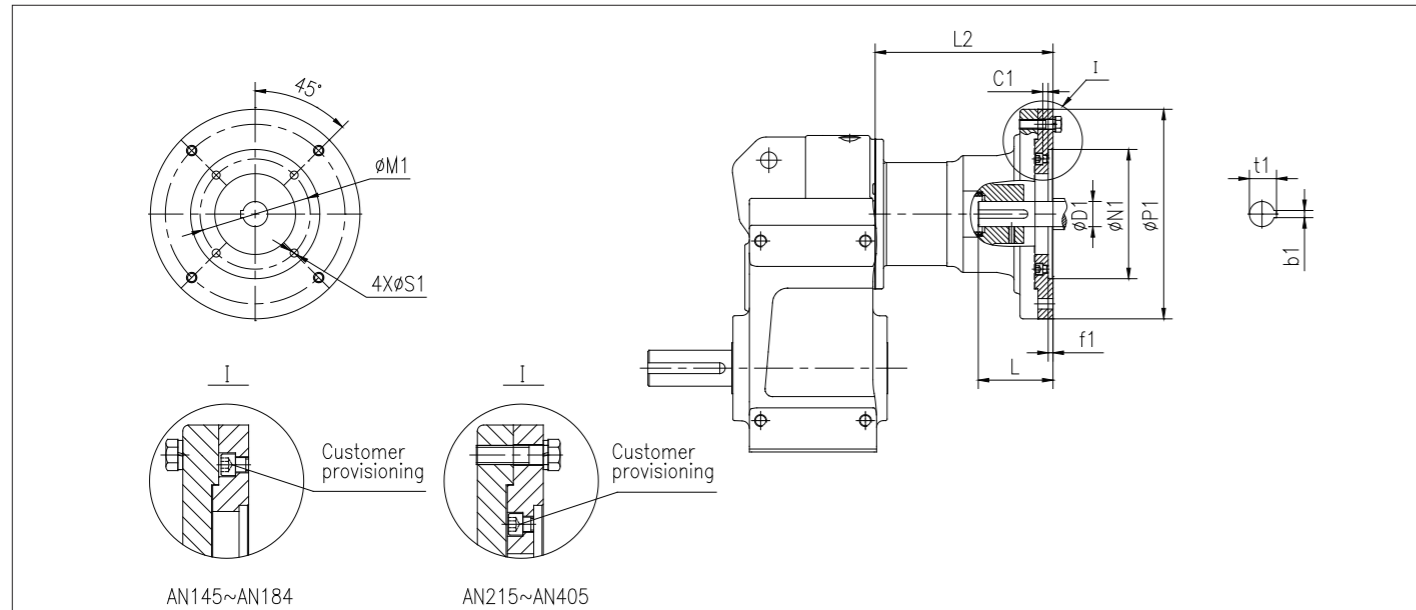


Size	Flange	i _N	e1	D1	N1	M1	P1	f1	b1	t1	L	S1	L2	Weight (kg)
F202 F302	AS040	4-112	4	8H7	30H7	46	78	4	2	9	25	M4	65	2.5
	AS055	4-112	4	9H7	40H7	63	78	4	3	10.4	25	M5	65	2.5
	AS060	4-112	10	14H7	50H7	70	60	4	5	16.3	30	M5	114	3.2
	AS070	4-112	10	14H7	60H7	75	70	4	5	16.3	30	M5	114	3.3
	AS080	4-112	10	19H7	70H7	90	80	4	6	21.8	35	M6	120	3.4
	AS090	4-112	10	19H7	80H7	100	90	4	6	21.8	40	M6	125	3.6
	AS100	4-63	14	19H7	95H7	115	100	4	6	21.8	45	M8	122	3.9
	AS125	4-63	15	24H7	110H7	130	130	5	8	27	50	M8	133	4.9
	AS140	4-63	15	24H7	110H7	145	130	5.5	8	27	55	M8	133	4.8
F203 F303	AS040	4-125	4	8H7	30H7	46	78	4	2	9	25	M4	65	2.5
	AS055	4-125	4	9H7	40H7	63	78	4	3	10.4	25	M5	65	2.5
	AS060	4-125	10	14H7	50H7	70	60	4	5	16.3	30	M5	114	3.2
	AS070	4-125	10	14H7	60H7	75	70	4	5	16.3	30	M5	114	3.3
	AS080	4-125	10	19H7	70H7	90	80	4	6	21.8	35	M6	120	3.4
	AS090	4-125	10	19H7	80H7	100	90	4	6	21.8	40	M6	125	3.6
	AS100	4-71	14	19H7	95H7	115	100	4	6	21.8	45	M8	122	3.9
	AS125	4-71	15	24H7	110H7	130	130	5	8	27	50	M8	133	4.9
	AS140	4-71	15	24H7	110H7	145	130	5.5	8	27	55	M8	133	4.8
F204 F304	AS060	4.5-160	10	14H7	50H7	70	60	4	5	16.3	30	M5	116	4.1
	AS070	4.5-160	10	14H7	60H7	75	70	4	5	16.3	30	M5	116	4.2
	AS080	4.5-160	10	19H7	70H7	90	80	4	6	21.8	35	M6	122	4.3
	AS090	4.5-160	10	19H7	80H7	100	90	4	6	21.8	40	M6	127	4.5
	AS100	4.5-100	14	19H7	95H7	115	100	4	6	21.8	45	M8	124	4.8
	AS125	4.5-100	15	24H7	110H7	130	130	5	8	27	50	M8	135	5.8
	AS140	4.5-100	15	24H7	110H7	145	130	5.5	8	27	55	M8	135	5.7
	AS160	4.5-100	15	32H7	130H7	165	155	5	10	35.3	60	M10	190	9.9
F205 F305	AS060	4-140	10	14H7	50H7	70	60	4	5	16.3	30	M5	116	4.1
	AS070	4-140	10	14H7	60H7	75	70	4	5	16.3	30	M5	116	4.2
	AS080	4-140	10	19H7	70H7	90	80	4	6	21.8	35	M6	122	4.3
	AS090	4-140	10	19H7	80H7	100	90	4	6	21.8	40	M6	127	4.5
	AS100	4-80	14	19H7	95H7	115	100	4	6	21.8	45	M8	124	4.8
	AS125	4-80	15	24H7	110H7	130	130	5	8	27	50	M8	135	5.8
	AS140	4-80	15	24H7	110H7	145	130	5.5	8	27	55	M8	135	5.7
F206 F306	AS060	4-200	10	14H7	50H7	70	60	4	5	16.3	30	M5	116	4.1
	AS070	4-200	10	14H7	60H7	75	70	4	5	16.3	30	M5	116	4.2
	AS080	4-200	10	19H7	70H7	90	80	4	6	21.8	35	M6	122	4.3
	AS090	4-200	10	19H7	80H7	100	90	4	6	21.8	40	M6	127	4.5
	AS100	4-112	14	19H7	95H7	115	100	4	6	21.8	45	M8	124	4.8
	AS125	4-112	15	24H7	110H7	130	130	5	8	27	50	M8	135	5.8
	AS140	4-112	15	24H7	110H7	145	130	5.5	8	27	55	M8	135	5.7
	AS160	4-112	15	32H7	130H7	165	155	5	10	35.3	60	M10	190	9.9

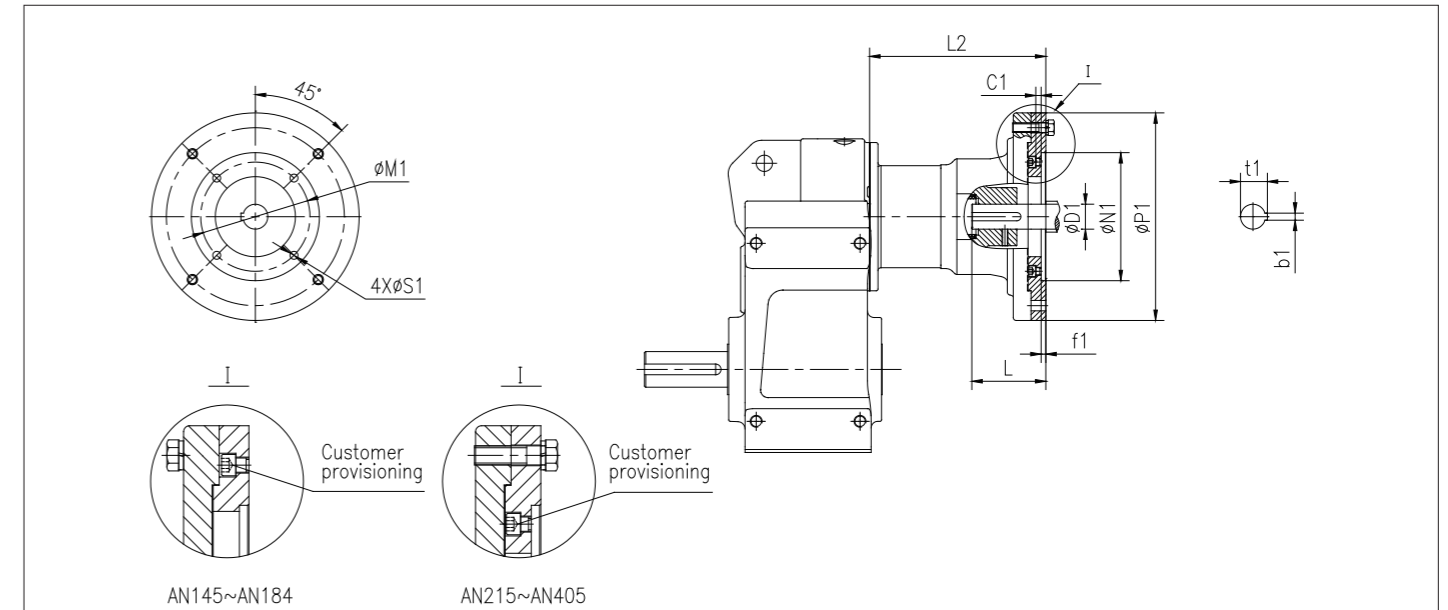
Size	Flange	i _N	e1	D1	N1	M1	P1	f1	b1	t1	L	S1	L2	Weight (kg)
F207 F307	AS060	20-250	10	14H7	50H7	70	60	4	5	16.3	30	M5	108	5.6
	AS070	20-250	10	14H7	60H7	75	70	4	5	16.3	30	M5	108	5.7
	AS080	20-250	10	19H7	70H7	90	80	4	6	21.8	35	M6	114	5.8
	AS090	20-250	10	19H7	80H7	100	90	4	6	21.8	40	M6	119	6
	AS100	4-160	14	19H7	95H7	115	100	4	6	21.8	45	M8	116	6.3
	AS125	4-160	15	24H7	110H7	130	130	5	8	27	50	M8	127	7.3
	AS140	4-160	15	24H7	110H7	145	130	5.5	8	27	55	M8	127	7.2
	AS160	4-160	15	32H7	130H7	165	155	5	10	35.3	60	M10	180	11.3
	AS180	4-71	16	35H7	114.3H7	200	180	7	10	38.3	80	M12	210	16.7
	AS190	4-71	18	38H7	180H7	215	190	5	10	41.3	80	M12	210	17.1
	AS240	4-71	28	38H7	230H7	265	240	5	10	41.3	80	M12	210	22.3
	F208 F308	AS070	112-250	10	14H7	60H7	75	70	4	5	16.3	30	M5	105
AS080		112-250	10	19H7	70H7	90	80	4	6	21.8	35	M6	111	8.1
AS090		112-250	10	19H7	80H7	100	90	4	6	21.8	40	M6	116	8.3
AS100		4-200	14	19H7	95H7	115	100	4	6	21.8	45	M8	113	8.6
AS125		4-200	15	24H7	110H7	130	130	5	8	27	50	M8	124	9.6
AS140		4-200	15	24H7	110H7	145	130	5.5	8	27	55	M8	124	9.5
AS160		4-200	15	32H7	130H7	165	155	5	10	35.3	60	M10	170	14
AS180		4-100	16	35H7	114.3H7	200	180	7	10	38.3	80	M12	203	19.3
AS190		4-100	18	38H7	180H7	215	190	5	10	41.3	80	M12	203	19.7
AS240		4-100	28	38H7	230H7	265	240	5	10	41.3	80	M12	203	24.9
AS260		4-100	40	48H7	250H7	300	260	6	14	51.8	110	M16	272	46.4
F209 F309		AS160	4-250	15	32H7	130H7	165	155	5	10	35.3	60	M10	171
	AS180	4-140	16	35H7	114.3H7	200	180	7	10	38.3	80	M12	202	22.7
	AS190	4-140	18	38H7	180H7	215	190	5	10	41.3	80	M12	202	23.1
	AS240	4-140	28	38H7	230H7	265	240	5	10	41.3	80	M12	202	28.3
	AS260	4-140	40	48H7	250H7	300	260	6	14	51.8	110	M16	271	49.9
	AS315	4-100	40	55H7	300H7	350	315	6	16	59.3	110	M16	327	72.8
F210 F310	AS160	16-224	15	32H7	130H7	165	155	5	10	35.3	60	M10	161	21.4
	AS180	5-140	16	35H7	114.3H7	200	180	7	10	38.3	80	M12	189	28.1
	AS190	5-140	18	38H7	180H7	215	190	5	10	41.3	80	M12	189	28.5
	AS240	5-140	28	38H7	230H7	265	240	5	10	41.3	80	M12	189	33.7
	AS260	5-140	40	48H7	250H7	300	260	6	14	51.8	110	M16	258	52.3
	AS315	5-112	40	55H7	300H7	350	315	6	16	59.3	110	M16	327	77.4
F212 F312	AS180	5-180	16	35H7	114.3H7	200	180	7	10	38.3	80	M12	175	40.8
	AS190	5-180	18	38H7	180H7	215	190	5	10	41.3	80	M12	175	41.2
	AS240	5-180	28	38H7	230H7	265	240	5	10	41.3	80	M12	175	46.4
	AS260	5-180	40	48H7	250H7	300	260	6	14	51.8	110	M16	244	66.9
	AS315	5-140	40	55H7	300H7	350	315	6	16	59.3	110	M16	316	89.8
	AS450	5-112	30	55H7	350H7	400	450	6	16	59.3	140	M16	343	97.5
F215 F315	AS260	14-180	40	48H7	250H7	300	260	6	14	51.8	110	M16	234	90.9
	AS315	6.3-125	40	55H7	300H7	350	315	6	16	59.3	110	M16	298	109.4
	AS450	6.3-100	30	55H7	350H7	400	450	6	16	59.3	140	M16	325	117.1

6.3 F系列AN
连接法兰尺寸 (mm)

6.3 F Series Dimensions of
AN Input Flange (mm)



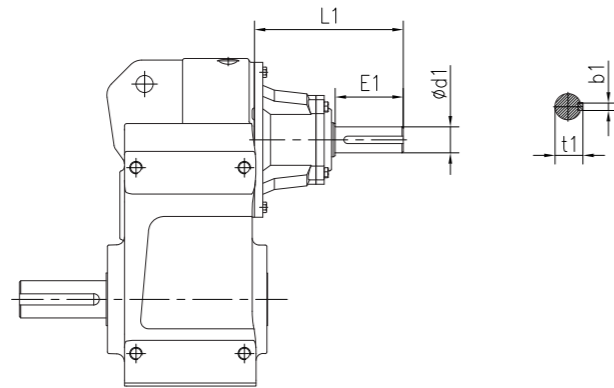
Size	Flange	NEMA Motor Frame	Power (HP)	IEC Standard Power (KW)	c1	D1	N1	M1	P1	f1	b1	t1	L	S1	L2
F202 F302	AN145	143TC	1/1.5	0.75/1.1	6	22.225H7	114.3H7	149.2	200	5	4.76	24.7	58.04	11	92
		145TC	2	1.5											
F203 F303	AN145	143TC	1/1.5	0.75/1.1	6	22.225H7	114.3H7	149.2	200	5	4.76	24.7	58.04	11	92
		145TC	2	1.5											
F204 F304	AN145	143TC	1/1.5	0.75/1.1	6	22.225H7	114.3H7	149.2	200	5	4.76	24.7	58.04	11	94
		145TC	2	1.5											
	AN184	182TC	3	2.2	8	28.575H7	215.9H7	184.2	250	8	6.35	31.7	73.03	13.5	220.5
184TC	5	4													
F205 F305	AN145	143TC	1/1.5	0.75/1.1	6	22.225H7	114.3H7	149.2	200	5	4.76	24.7	58.04	11	94
		145TC	2	1.5											
	AN184	182TC	3	2.2	8	28.575H7	215.9H7	184.2	250	8	6.35	31.7	73.03	13.5	220.5
184TC	5	4													
F206 F306	AN145	143TC	1/1.5	0.75/1.1	6	22.225H7	114.3H7	149.2	200	5	4.76	24.7	58.04	11	94
		145TC	2	1.5											
	AN184	182TC	3	2.2	8	28.575H7	215.9H7	184.2	250	8	6.35	31.7	73.03	13.5	220.5
184TC	5	4													
F207 F307	AN145	143TC	1/1.5	0.75/1.1	6	22.225H7	114.3H7	149.2	200	5	4.76	24.7	58.04	11	86
		145TC	2	1.5											
	AN184	182TC	3	2.2	8	28.575H7	215.9H7	184.2	250	8	6.35	31.7	73.03	13.5	210.5
184TC	5	4													
F208 F308	AN145	143TC	1/1.5	0.75/1.1	6	22.225H7	114.3H7	149.2	200	5	4.76	24.7	58.04	11	83
		145TC	2	1.5											
	AN184	182TC	3	2.2	8	28.575H7	215.9H7	184.2	250	8	6.35	31.7	73.03	13.5	200.5
184TC	5	4													
F209 F309	AN145	143TC	1/1.5	0.75/1.1	6	22.225H7	114.3H7	149.2	200	5	4.76	24.7	58.04	11	83
		145TC	2	1.5											
	AN184	182TC	3	2.2	8	28.575H7	215.9H7	184.2	250	8	6.35	31.7	73.03	13.5	200.5
184TC	5	4													
F210 F310	AN215	213TC	7.5	5.5	9	34.925H7	215.9H7	184.15	300	8	7.94	38.7	85.73	13.5	245
		215TC	10	7.5											
	AN256	254TC	15	11	9	41.275H7	215.9H7	184.15	350	8	9.53	45.8	101.6	13.5	283
256TC	20	15													
F212 F312	AN215	213TC	7.5	5.5	9	34.925H7	215.9H7	184.15	300	8	7.94	38.7	85.73	13.5	200
		215TC	10	7.5											
	AN286	284TC	25	18.5	9	47.625H7	266.7H7	228.6	400	8	12.7	53.4	117.48	13.5	341
286TC	30	22													
F215 F315	AN256	254TC	15	11	9	41.275H7	215.9H7	184.15	350	8	9.53	45.8	101.6	13.5	259
		256TC	20	15											
	AN286	284TC	25	18.5	9	47.625H7	266.7H7	228.6	400	8	12.7	53.4	117.48	13.5	323
286TC	30	22													
F215 F315	AN326	324TC	40	30	9.5	53.975H7	317.5H7	279.4	450	8	12.7	60	133.35	17.5	373
		326TC	50	37											
	AN365	364TC	60	45	24.5	60.325H7	317.5H7	279.4	450	8	15.88	67.6	149.23	17.5	388
365TC	75	55													
F215 F315	AN405	405TC	100	75	64.5	73.025H7	317.5H7	279.4	450	8	19.05	81.9	184.15	17.5	433
		405TC	100	75											
	AN256	254TC	15	11	9	41.275H7	215.9H7	184.15	350	8	9.53	45.8	101.6	13.5	259
256TC	20	15													
F215 F315	AN286	284TC	25	18.5	9	47.625H7	266.7H7	228.6	400	8	12.7	53.4	117.48	13.5	323
		286TC	30	22											
	AN326	324TC	40	30	9.5	53.975H7	317.5H7	279.4	450	8	12.7	60	133.35	17.5	355
326TC	50	37													
F215 F315	AN365	364TC	60	45	24.5	60.325H7	317.5H7	279.4	450	8	15.88	67.6	149.23	17.5	370
		365TC	75	55											
	AN405	405TC	100	75	64.5	73.025H7	317.5H7	279.4	450	8	19.05	81.9	184.15	17.5	415
405TC	100	75													



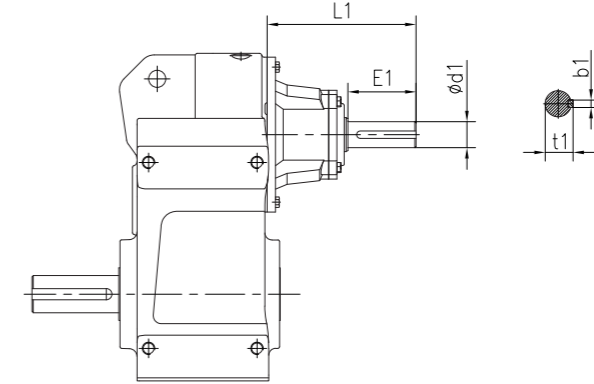
Size	Flange	NEMA Motor Frame	Power (HP)	IEC Standard Power (KW)	c1	D1	N1	M1	P1	f1	b1	t1	L	S1	L2
F210 F310	AN184	182TC	3	2.2	8	28.575H7	215.9H7	184.2	250	8	6.35	31.7	73.03	13.5	191.5
		184TC	5	4											
F210 F310	AN215	213TC	7.5	5.5	9	34.925H7	215.9H7	184.15	300	8	7.94	38.7	85.73	13.5	214
		215TC	10	7.5											
	AN256	254TC	15	11	9	41.275H7	215.9H7	184.15	350	8	9.53	45.8	101.6	13.5	283
256TC	20	15													
F210 F310	AN286	284TC	25	18.5	9	47.625H7	266.7H7	228.6	400	8	12.7	53.4	117.48	13.5	252
		286TC	30	22											
	AN326	324TC	40	30	9.5	53.975H7	317.5H7	279.4	450	8	12.7	60	133.35	17.5	384
326TC	50	37													
F210 F310	AN365	364TC	60	45	24.5	60.325H7	317.5H7	279.4	450	8	15.88	67.6	149.23	17.5	399
		365TC	75	55											
	AN365	364TC	60	45	24.5	60.325H7	317.5H7	279.4	450	8	15.88	67.6	149.23	17.5	399
365TC	75	55													
F212 F312	AN215	213TC	7.5	5.5	9	34.925H7	215.9H7	184.15	300	8	7.94	38.7	85.73	13.5	200
		215TC	10	7.5											
	AN256	254TC	15	11	9	41.275H7	215.9H7	184.15	350	8	9.53	45.8	101.6	13.5	269
256TC	20	15													
F212 F312	AN286	284TC	25	18.5	9	47.625H7	266.7H7	228.6	400	8	12.7	53.4	117.48	13.5	341
		286TC	30	22											
	AN326	324TC	40	30	9.5	53.975H7	317.5H7	279.4	450	8	12.7	60	133.35	17.5	373
326TC	50	37													
F212 F312	AN365	364TC	60	45	24.5	60.325H7	317.5H7	279.4	450	8	15.88	67.6	149.23	17.5	388
		365TC	75	55											
	AN405	405TC	100	75	64.5	73.025H7	317.5H7	279.4	450	8	19.05	81.9	184.15	17.5	433
405TC	100	75													
F215 F315	AN256	254TC	15	11	9	41.275H7	215.9H7	184.15	350	8	9.53	45.8	101.6	13.5	259
		256TC	20	15											
	AN286	284TC	25	18.5	9	47.625H7	266.7H7	228.6	400	8	12.7	53.4	117.48	13.5	323
286TC	30	22													
F215 F315	AN326	324TC	40	30	9.5	53.975H7	317.5H7	279.4	450	8	12.7	60	133.35	17.5	355
		326TC	50	37											
	AN365	364TC	60	45	24.5	60.325H7	317.5H7	279.4	450	8	15.88	67.6	149.23	17.5	370
365TC	75	55													
F215 F315	AN405	405TC	100	75	64.5	73.025H7	317.5H7	279.4	450	8	19.05	81.9	184.15	17.5	415
		405TC	100	75											

6.4 F系列 AE输入法兰
外形尺寸 (mm)

6.4 F Series Dimensions of
AE Input Flange (mm)



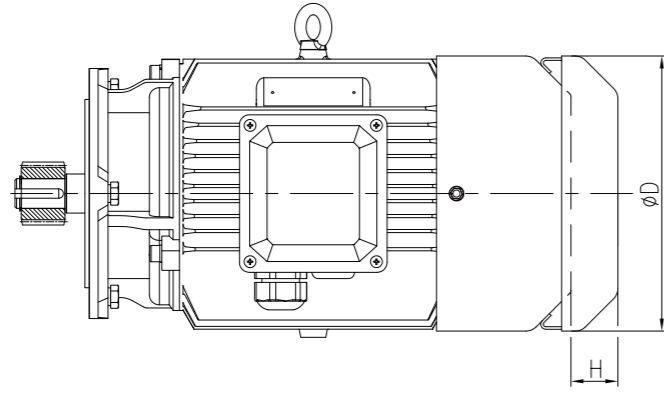
Size	Input Shaft	P_1 (kW)	i_N	d1	E1	L1	b1	t1	Weight (kg)
F202 F302	AE2	0.12-0.75	4-112	19k6	40	117	6	21.5	2.5
F203 F303	AE2	0.12-0.75	4-125	19k6	40	117	6	21.5	2.5
F204 F304	AE2	0.12-0.75	4.5-160	19k6	40	119	6	21.5	3.4
	AE3	1.1-4	4.5-50	28k6	60	175	8	31	6.1
F205 F305	AE2	0.12-0.75	4-140	19k6	40	119	6	21.5	3.4
	AE3	1.1-4	4-80	28k6	60	175	8	31	6.1
F206 F306	AE2	0.12-0.75	4-200	19k6	40	119	6	21.5	3.4
	AE3	1.1-4	4-112	28k6	60	175	8	31	6.1
F207 F307	AE2	0.12-0.75	20-250	19k6	40	111	6	21.5	4.9
	AE3	1.1-4	4-160	28k6	60	165	8	31	7.5
	AE4	5.5-7.5	4-40	38k6	80	211	10	41	10.5
F208 F308	AE2	0.12-0.75	112-250	19k6	40	108	6	21.5	7.2
	AE3	1.1-4	4-200	28k6	60	155	8	31	10.2
	AE4	5.5-11	4-80	38k6	80	204	10	41	13.1
	AE5	15-22	4-40	42k6	110	266	12	45	23.3



Size	Input Shaft	P_1 (kW)	i_N	d1	E1	L1	b1	t1	Weight (kg)
F209 F309	AE3	1.1-4	4-250	28k6	60	156	8	31	10.2
	AE4	5.5-11	4-112	38k6	80	203	10	41	13.1
	AE5	15-22	4-56	42k6	110	265	12	45	23.3
F210 F310	AE6	30-45	4-28	48k6	110	309	14	51.5	40.9
	AE3	1.1-4	16-224	28k6	60	146	8	31	17.6
	AE4	5.5-11	5-140	38k6	80	190	10	41	21.9
	AE5	15-22	5-100	42k6	110	252	12	45	29.2
F212 F312	AE6	30-45	5-50	48k6	110	309	14	51.5	45.5
	AE4	5.5-11	5-180	38k6	80	176	10	41	34.6
	AE5	15-22	5-140	42k6	110	238	12	45	43.8
	AE6	30-45	5-71	48k6	110	298	14	51.5	57.9
	AE7	55-90	5-40	55m6	110	297	16	59	64.6
F215 F315	AE8	110-200	5-20	70m6	140	377	20	74.5	87.8
	AE5	15-22	14-180	42k6	110	228	12	45	67.8
	AE6	30-45	6.3-125	48k6	110	280	14	51.5	77.5
	AE7	55-90	6.3-71	55m6	110	279	16	59	81.1
AE8	110-200	6.3-35.5	70m6	140	361	20	74.5	104.8	

7 马达防雨罩尺寸

7 Motor Rainproof Cover (mm)



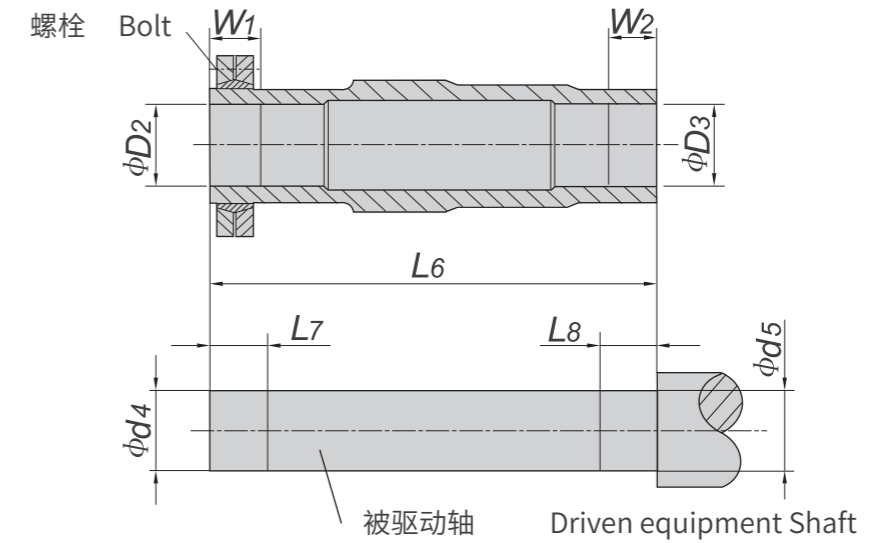
Frame Size	H63	H71	H80	H90	H100	H112	H132	H160	H180	H200	H225	H250	H280
D	124	139	159	176	199	220	259	314	356	398	446	485	547
H	25	30	30	35	40	40	40	60	60	70	70	80	80

8 被驱动轴推荐尺寸

8 Recommended Dimensions for Driven Equipment Shaft

8.1 锁紧盘

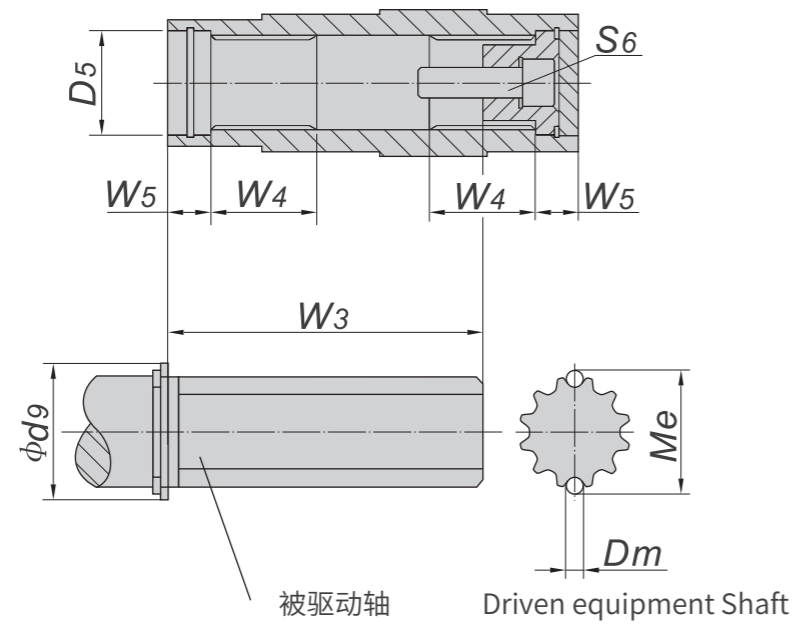
8.1 Shrink disk



Size	D2	D3	d4	d5	L6	L7	L8	W1	W2	Type	Bolt	Weight
F202 F302	25H7	25H7	25h6	25h6	128	35	35	30	30	SP2-36×72	M6	0.5
F203 F303	30H7	30H7	30h6	30h6	146	35	25	30	20	SP2-44×80	M6	0.6
F204 F304	35H7	35H7	35h6	35h6	177	35	25	30	20	SP2-44×80	M6	0.6
F205 F305	40H7	40H7	40h6	40h6	195	40	30	35	25	SP2-50×90	M6	0.8
F206 F306	40H7	40H7	40h6	40h6	208	43	25	38	20	SP2-50×90	M6	0.8
F207 F307	50H7	50H7	50h6	50h6	241	41	35	36	30	SP2-62×110	M6	1.3
F208 F308	65H7	65H7	65h6	65h6	281	46	45	41	40	SP2-80×145	M8	1.9
F209 F309	75H7	75H7	75h6	75h6	345	60	55	55	50	SP2-90×155	M8	3.3
F210 F310	95H7	95H7	95h6	95h6	405	75	70	65	60	SP2-110×185	M10	5.9
F212 F312	105H7	105H7	105h6	105h6	485	95	80	85	70	SP2-140×230	M12	10
F215 F315	125H7	125H7	125h6	125h6	580	100	87	90	77	SP2-155×263	M12	15

8.2 花键轴

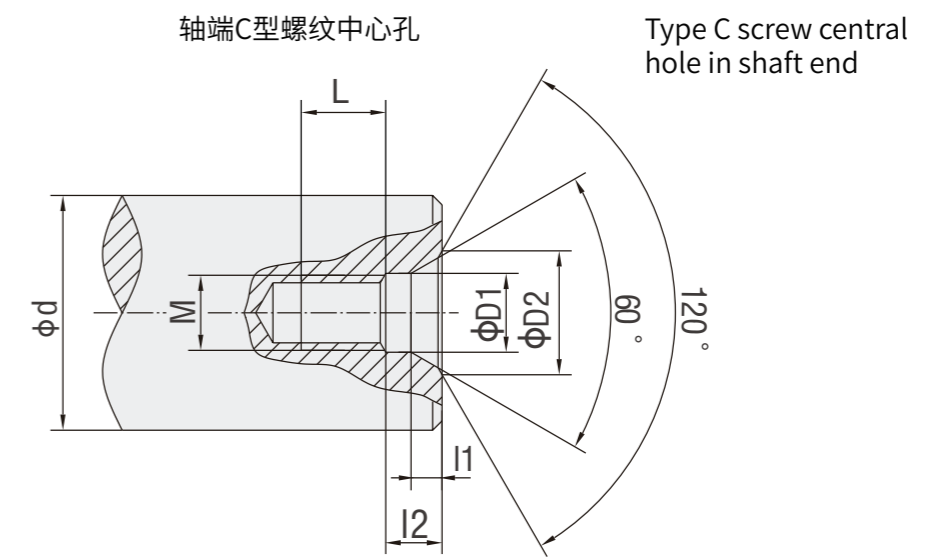
8.2 Involute spline



Size	D5	Dm	d9	Me	W3	W4	W5	S6
F202 F302	32	2.75	36	27.99	72	25	18	M10×30
F203 F303	37	2.75	42	33.03	85	25	18	M10×30
F204 F304	37	4	42	38.92	115	32	18	M10×30
F205 F305	42	4	47	38.92	125	42	25	M16×40
F206 F306	42	4	47	38.92	140	42	25	M16×40
F207 F307	55	4	62	54.13	160	52	23	M16×50
F208 F308	72	4	82	68.96	180	62	25	M20×60
F209 F309	72	4	90	74.15	240	72	25	M20×60
F210 F310	90	6	105	91	290	89	26	M20×60
F212 F312	100	6	120	101.05	380	92	28	M24×60
F215 F315	120	6	140	125.99	465	107	30	M24×70

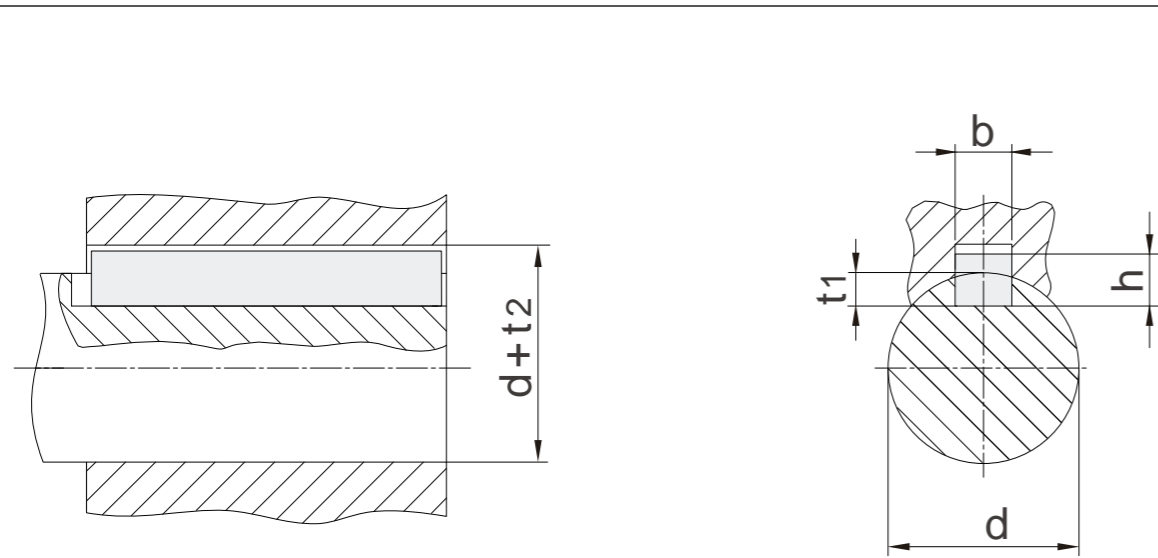
9 轴端中心孔

9 Shaft End Centre Hole



d	M	L	12	11	D1	D2
7 < d ≤ 10	M3	10	2.6	1.8	3.2	5.8
10 < d ≤ 13	M4	10	3.2	2.1	4.3	7.4
13 < d ≤ 16	M5	10	4	2.4	5.3	8.8
16 < d ≤ 21	M6	12	5	2.8	6.4	10.5
21 < d ≤ 24	M8	12	6	3.3	8.4	13.2
24 < d ≤ 30	M10	15	7.5	3.8	10.5	16.3
30 < d ≤ 38	M12	20	9.5	4.4	13	19.8
38 < d ≤ 50	M16	25	12	5.2	17	25.3
50 < d ≤ 85	M20	30	15	6.4	21	31.3
85 < d ≤ 130	M24	35	18	8	25	38
130 < d ≤ 225	M30	45	18	11	31	48

10 平键与键槽的尺寸 (mm) 10 Dimension of Parallel Key and Keyway (mm)



d	b	h	t1	d + t2
8 < d ≤ 10	3	3	1.8	d + 1.4
10 < d ≤ 12	4	4	2.5	d + 1.8
12 < d ≤ 17	5	5	3	d + 2.3
17 < d ≤ 22	6	6	3.5	d + 2.8
22 < d ≤ 30	8	7	4	d + 3.3
30 < d ≤ 38	10	8	5	d + 3.3
38 < d ≤ 44	12	8	5	d + 3.3
44 < d ≤ 50	14	9	5.5	d + 3.8
50 < d ≤ 58	16	10	6	d + 4.3
58 < d ≤ 65	18	11	7	d + 4.4
65 < d ≤ 75	20	12	7.5	d + 4.9
75 < d ≤ 85	22	14	9	d + 5.4
85 < d ≤ 95	25	14	9	d + 5.4
95 < d ≤ 110	28	16	10	d + 6.4
110 < d ≤ 130	32	18	11	d + 7.4
130 < d ≤ 150	36	20	12	d + 8.4
150 < d ≤ 170	40	22	13	d + 9.4
170 < d ≤ 200	45	25	15	d + 10.4
200 < d ≤ 230	50	28	17	d + 11.4
230 < d ≤ 260	56	32	20	d + 12.4

11 可选附件和指定配置

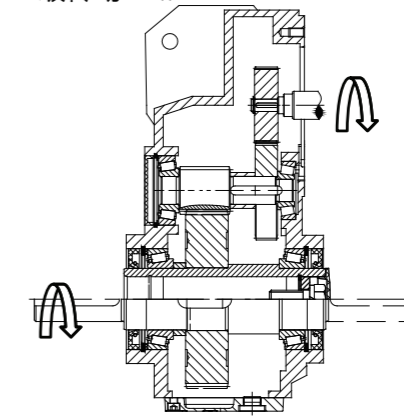
11 Accessories and Specific Configuration

11.1 逆止器与齿轮马达输出旋向对照表

11.1 Comparison table of backstop and motor output rotation direction

二级传动 F2..

Secondary transmission



逆止器选项和F系列输出形式关系

Relationship of backstop & F series output mode

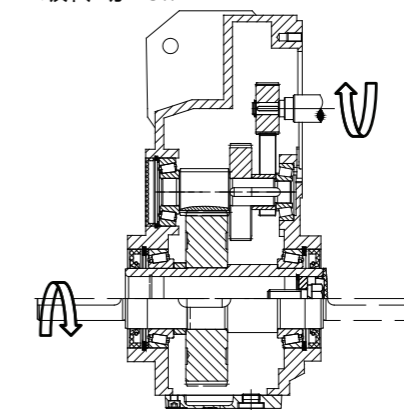
输出形式 Output mode	输出轴旋向 (面向输出轴端面) Output shaft rotational direction (when facing to it)	逆止器 Backstop
A/D/G/I/K	CW	P
	CCW	Q

注意: CW为顺时针, CCW为逆时针
P为逆止器顺时针, Q为逆止器逆时针

Attention: CW is clockwise while CCW is counter-clockwise.
P is clockwise for the backstop, Q is counter-clockwise.

三级传动 F3..

Three stage transmission



逆止器选项和F系列输出形式关系

Relationship of backstop & F series output mode

输出形式 Output mode	输出轴旋向 (面向输出轴端面) Output shaft rotational direction (when facing to it)	逆止器 Backstop
A/D/G/I/K	CW	Q
	CCW	P

注意: CW为顺时针, CCW为逆时针
P为逆止器顺时针, Q为逆止器逆时针

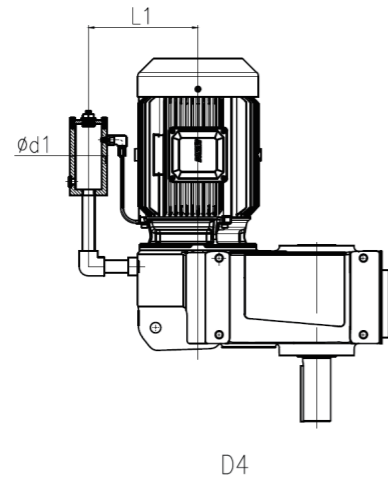
Attention: CW is clockwise while CCW is counter-clockwise.
P is clockwise for the backstop, Q is counter-clockwise.

11.2 补偿油箱

11.2 Oil Compensating Tank

齿轮马达在以下工况时采用补偿油箱润滑：
1. 安装方位为D4时，出厂标配补偿油箱；

Oil compensating tank lubrication is configured for gearmotors under working conditions below:
1. When mounting position is D4, oil compensating tank has been installed before delivery;



Size	D4	
	L1	φD
F202 F302	145	42
F203 F303	145	42
F204 F304	165	42
F205 F305	165	42
F206 F306	165	42
F207 F307	205	80
F208 F308	230	80
F209 F309	260	80
F210 F310	380	120
F212 F312	415	120
F215 F315	475	120

12 润滑油(L)

12 Oil (L)

12.1 F302~F315

12.1 F302~F315

Position Size	D1	D2	D3	D4	D5	D6
	F202 F302	0.7	0.9	1	1	0.9
F203 F303	1.2	1.4	1.3	1.5	1.3	1.1
F204 F304	1.8	2.1	2.2	2.3	2.2	1.9
F205 F305	2.1	2.8	2.5	2.9	2.4	2.3
F206 F306	3.1	3.9	4.1	4.2	3.9	3.3
F207 F307	5.8	7.8	7.6	8.6	7.2	6.8
F208 F308	10.9	14.8	13.7	14.7	13.2	11.3
F209 F309	20	28	27	26	24	21
F210 F310	25	37	35	36	32	27
F212 F312	43	65	58	66	56	59
F215 F315	75	125	101	116	97	84

12.2 F&C组合型

12.2 F&C Combi-Type

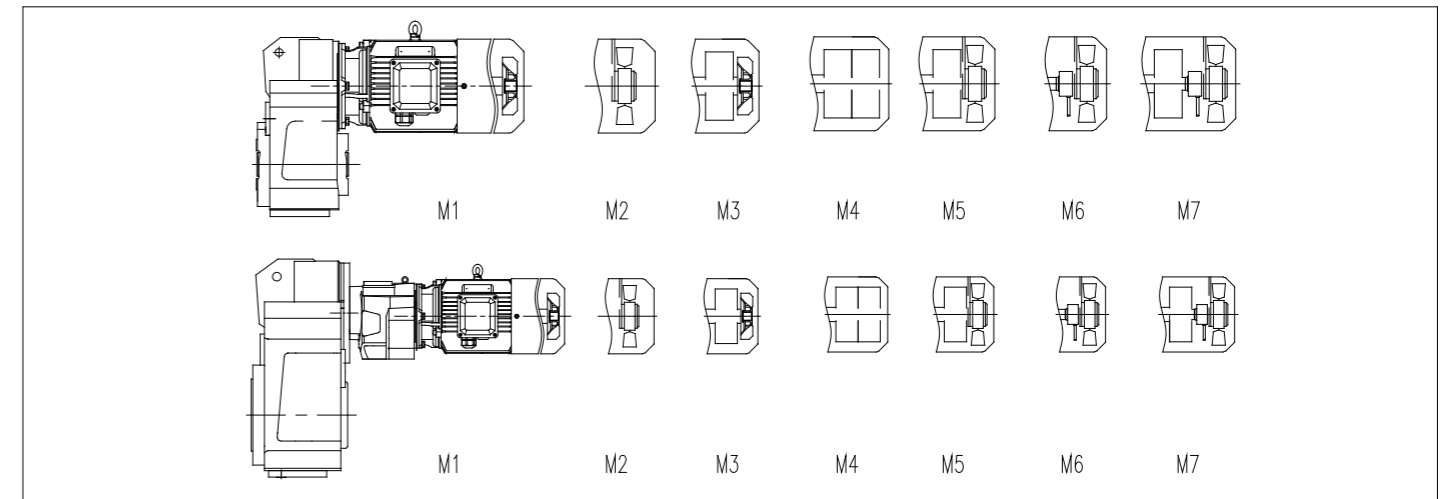
Position Size	D1	D2	D3	D4	D5	D6
F302&C201	0.7+0.4	0.9+0.4	1+0.4	1+0.5	0.9+0.4	0.8+0.4
F302&C301	1.2+0.3	1.4+0.3	1.3+0.3	1.5+0.4	1.3+0.3	1.1+0.3
F203&C201	1.8+0.4	2.1+0.4	2.2+0.4	2.3+0.5	2.2+0.4	1.9+0.4
F303&C201	2.1+0.4	2.8+0.4	2.5+0.4	2.9+0.5	2.4+0.4	2.3+0.4
F303&C301	3.1+0.3	3.9+0.3	4.1+0.3	4.2+0.4	3.9+0.3	3.3+0.3
F204&C203	5.8+0.4	7.8+1	7.6+1.1	8.6+1.2	7.2+0.9	6.8+1.1
F304&C203	10.9+0.4	14.8+1	13.7+1.1	14.7+1.2	13.2+0.9	11.3+1.1
F304&C303	20+0.3	28+0.9	27+0.9	26+1	24+0.8	21+0.9
F205&C203	25+0.4	37+1	35+1.1	36+1.2	32+0.9	27+1.1
F305&C203	43+0.4	65+1	58+1.1	66+1.2	56+0.9	59+1.1
F305&C303	75+0.3	125+0.9	101+0.9	116+1	97+0.8	84+0.9
F306&C203	0.7+0.4	0.9+1	1+1.1	1+1.2	0.9+0.9	0.8+1.1
F306&C303	1.2+0.3	1.4+0.9	1.3+0.9	1.5+1	1.3+0.8	1.1+0.9
F207&C203	1.8+0.4	2.1+1	2.2+1.1	2.3+1.2	2.2+0.9	1.9+1.1
F307&C203	2.1+0.4	2.8+1	2.5+1.1	2.9+1.2	2.4+0.9	2.3+1.1
F307&C303	3.1+0.3	3.9+0.9	4.1+0.9	4.2+1	3.9+0.8	3.3+0.9
F208&C205	5.8+1.5	7.8+1.7	7.6+1.8	8.6+1.8	7.2+2.6	6.8+2.5
F308&C205	10.9+1.5	14.8+1.7	13.7+1.8	14.7+1.8	13.2+2.6	11.3+2.5
F308&C305	20+1.3	28+1.4	27+1.5	26+1.5	24+2.2	21+2.1
F209&C205	25+1.5	37+1.7	35+1.8	36+1.8	32+2.6	27+2.5
F309&C205	43+1.5	65+1.7	58+1.8	66+1.8	56+2.6	59+2.5
F309&C305	75+1.3	125+1.4	101+1.5	116+1.5	97+2.2	84+2.1
F210&C207	1.8+2	2.1+2.9	2.2+2.8	2.3+3.1	2.2+3.6	1.9+3.5
F310&C207	2.1+2	2.8+2.9	2.5+2.8	2.9+3.1	2.4+3.6	2.3+3.5
F310&C307	3.1+1.7	3.9+2.5	4.1+2.4	4.2+2.6	3.9+3.1	3.3+3
F212&C208	20+2.6	28+7.1	27+7.5	26+8.1	24+6.6	21+7.2
F312&C207	5.8+2	7.8+2.9	7.6+2.8	8.6+3.1	7.2+3.6	6.8+3.5
F312&C307	10.9+1.7	14.8+2.5	13.7+2.4	14.7+2.6	13.2+3.1	11.3+3
F215&C209	25+7.8	37+9.7	35+9.5	36+10.1	32+13.1	27+12.8
F315&C209	43+7.8	65+9.7	58+9.5	66+10.1	56+13.1	59+12.8
F315&C309	75+6.6	125+8.2	101+8.1	116+8.6	97+11.1	84+10.9

13 重量表

13 Weight

13.1 齿轮箱及直连马达重量表 (Kg)

13.1 Weight of Gearbox & Directly-connected Motor (Kg)



- | | |
|------------------|------------------------------|
| M1: 自扇冷却 | M1: Self-fan cooling |
| M2: 强冷风机 | M2: Driven fan |
| M3: 制动器+自扇冷却 | M3: Brake+Self-fan cooling |
| M4: 双制动器 | M4: Double brake |
| M5: 制动器+强冷风机 | M5: Brake+Driven fan |
| M6: 编码器+强冷风机 | M6: Encoder+Driven fan |
| M7: 制动器+编码器+强冷风机 | M7: Brake+Encoder+Driven fan |

齿轮箱重量表 (kg)

Weight of Gearbox (kg)

Size	F. 02	F. 03	F. 04	F. 05	F. 06	F. 07	F. 08	F. 09	F. 10	F. 12	F. 15	
Weight	10	16	20	26	36	60	107	189	270	454	780	
Size	F302&C.01	F203&C201 F303&C.01	F204&C203 F304&C.03	F205&C203 F305&C.03	F306&C.03	F207&C203 F307&C.03	F208&C205 F308&C.05	F209&C205 F309&C.05	F210&C207 F310&C.07	F212&C208	F312&C.07	F215&C209 F315&C.09
Weight	18	24	29	35	45	69	127	209	306	520	490	900

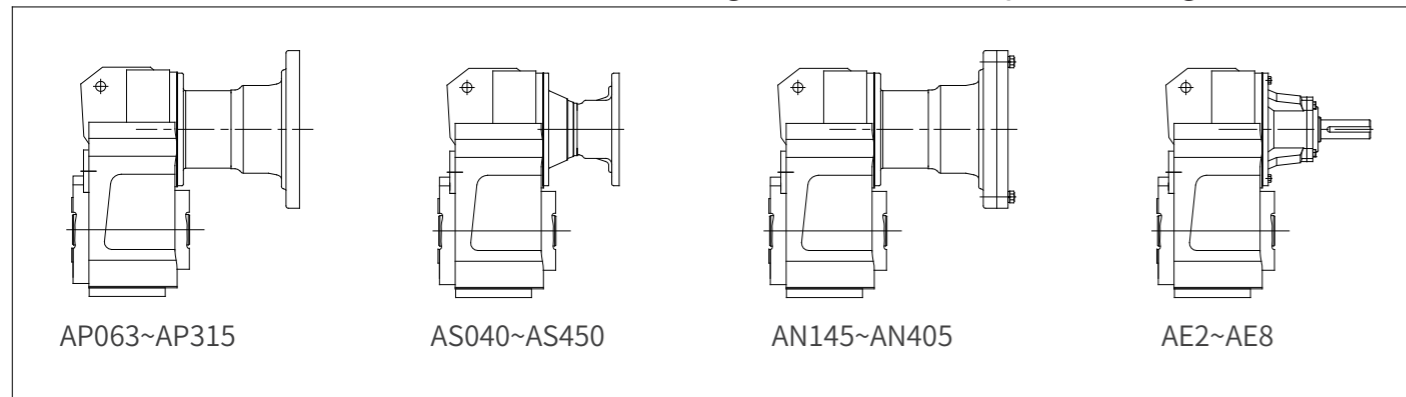
直连马达重量表 (kg)

Weight of Directly-connected Motor (Kg)

4极功率 (kW)	MP						MU					
	M1	M2	M3	M5	M6	M7	M1	M2	M3	M5	M6	M7
0.12	7	8	9	9	/	/	7.5	8	9	9.5	/	/
0.18	8	9	10	10	/	/	7.5	8	9	9.5	/	/
0.25	9	10	11	12	11	13	10	11	11	12	11	13
0.37	10	11	12	13	12	14	15	16	19	20	17	21
0.55	15	16	19	20	17	21	16	17	20	21	18	22
0.75	16	17	20	21	18	22	20	21	24	25	22	26
1.1	20	21	24	25	22	26	22	23	26	27	24	28
1.5	22	23	26	27	24	28	31	32	39	40	33	41
2.2	32	33	40	41	34	42	34	35	42	43	36	44
3	36	37	44	45	38	46	55	57	63	64	58	65
4	56	57	64	65	58	66	75	77	87	89	78	90
5.5	77	79	88	90	80	91	78	80	89	91	81	92
7.5	88	90	99	101	91	102	128	130	149	151	131	152
11	129	131	150	151	132	152	160	162	181	183	163	184
15	161	163	182	183	164	184	198	200	230	232	201	234
18.5	200	202	232	233	203	235	218	220	250	252	221	254
22	220	222	252	253	223	255	279	280	329	330	281	332
30	280	280	330	328	281	330	343	345	393	394	346	396
37	345	347	395	396	349	398	365	367	415	416	368	418
45	365	367	415	416	369	418	467	469	572	573	470	575
55	470	471	575	570	471	572	627	629	732	734	630	736
75	630	632	735	733	633	735	650	652	755	757	653	759
90	710	712	815	813	713	815	720	722	825	827	723	829

13.2 输入法兰及
输入轴重量表 (Kg)

13.2 Weight of Input Flange &
Input Shaft (Kg)



		AP输入法兰重量表 (kg)				Weight of AP Input Flange (kg)			
规格	Size	AP063	AP071	AP080	AP090	AP100	AP112	AP132	
重量	Weight	5	5	9	11	18	18	30	
规格	Size	AP160	AP180	AP200	AP225	AP250	AP280	AP315	
重量	Weight	70	70	95	107	144	144	263	

		AS输入法兰重量表 (kg)				Weight of AS Input Flange (kg)			
规格	Size	AS040	AS055	AS060	AS070	AS080	AS090	AS100	AS125
重量	Weight	3	3	4	5	5	5	6	7
规格	Size	AS140	AS160	AS180	AS190	AS240	AS260	AS315	AS450
重量	Weight	6	13	24	25	30	70	95	112

		AN输入法兰重量表 (kg)				Weight of AN Input Flange (kg)			
规格	Size	AN145	AN184	AN215	AN256	AN286	AN326	AN365	AN405
重量	Weight	13	27	43	89	119	140	154	201

		AE输入轴重量表 (kg)				Weight of AE Input Shaft (kg)			
规格	Size	AE200	AE300	AE400	AE500	AE600	AE700	AE800	
重量	Weight	4	9	17	46	63	77	101	

随着技术迭代进步，博能产品样本将会同步更新，请见谅。
Along with the technology advancedet.,the product of
the manual of Boneng will be changed,please forgive.

控制层 CONTROL

驱动层 DRIVE

马达层 MOTOR

齿轮层 GEAR

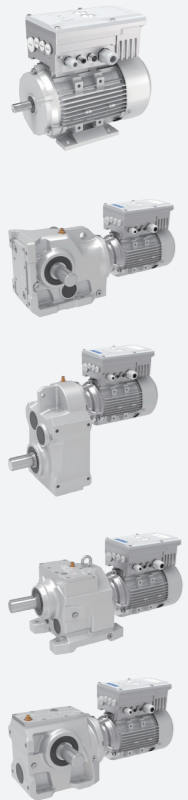


X3010 PLC
EtherCAT&Modbus
24VDC



X3050 运动控制器
Motion Controller
EtherCAT&Modbus
24VDC

C/F/K/S-M
* . . . D
马达分布式
变频驱动器
Integrated
Gearmotor
Drive



EtherCAT&
Modbus
380~480VAC
0.25~3kW
i=4~355

AM 变频驱动器
Variable Frequency Drive



Modbus
380~480VAC
0.75~5.5kW

A1 变频驱动器
Variable Frequency Drive



Modbus/CANopen
/PROFINET
380~480VAC
0.75~250kW

C/F/K/S/R
齿轮马达
Gearmotor



380~480VAC
0.09~200kW
i=1.25~500

MP/MU
三相交流异步马达
Asynchronous Motor



380~480VAC
0.09~90kW
960/1450r/min
1160/1750r/min

HB/BE/HK
齿轮箱
Gearbox



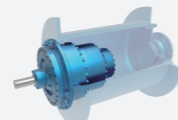
4.2~15775kW
i=5.6~450

P/PK
行星齿轮箱
Planetary
Gearbox



0.4~14000kW
i=25~4000

PW
卷扬齿轮箱
Planetary
Winch
Gearbox



1~1810kW
i=13~940

PS
回转齿轮箱
Planetary
Slewing
Gearbox



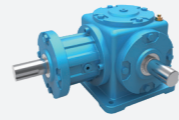
1~1626kW
i=14~947

J/JB
升降机
Jack



0.35~22.63kW
i=5~34

T
转向箱
Spiral Bevel
Gearbox



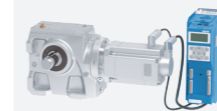
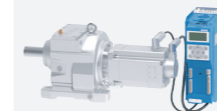
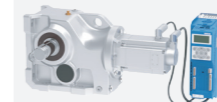
0.08~303kW
i=1:1~3:1

MX&AX
伺服马达&伺
服驱动器
Permanent
Magnet
Servo Motor
& Servo Drive



EtherCAT/
PROFINET
380~480VAC
0.28~14kW
1500/2000r/min
3000/4500r/min

C/F/K/S-MX
&AX齿轮伺
服马达&伺
服驱动器
Servo
Gearmotor
& Servo Drive



EtherCAT/
PROFINET
380~480VAC
0.28~14kW
i=1.25~315

PX-MX&AX
行星伺服马达
&伺服驱动器
Planetary
Precision Gear
Servo Motor
& Servo Drive



EtherCAT/
PROFINET
380~480VAC
0.38~14kW
i=3~100

PN-MN&AN
行星伺服马达
&伺服驱动器
Planetary
Precision Gear
Servo Motor
& Servo Drive



EtherCAT
PROFINET
380~480VAC
0.28~5.03kW
i=3~100

ME&AN
永磁同步伺服马
达&伺服驱动器
Permanent
Magnet
Servo Motor
& Servo Drive



EtherCAT/
PROFINET
200~240VAC
0.1kW~1.2kW

博能传动(沈阳)有限公司	BONENG TRANSMISSION(SHENYANG)CO.,LTD.
辽宁省沈阳市沈北新区 太平洋工业城A区A73-6号 电话: 024-31271571	No. A73-6, Area A, Pacific Industrial City, Shenbei New District, Shenyang, Liaoning Province, China TEL: 024-31271571
博能传动(天津)有限公司	BONENG TRANSMISSION(TIANJIN)CO.,LTD.
天津市北辰区双海道6号 宏鹏工业园7号车间 电话: 022-26929556	7th Workshop, Hongpeng Industrial Park, No. 6 Shuanghai Road, Beichen District, Tianjin City,China TEL: 022-26929556
博能传动(潍坊)有限公司	BONENG TRANSMISSION(WEIFANG)CO.,LTD.
山东省潍坊市安丘市经济开发区 汶水路与昆仑大街交叉口往北 100米路东1号车间 电话: 0536-2141166	1st Workshop, Economic Development Zone, Anqiu, Weifang City, Shandong Province, China TEL: 0536-2141166
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河南省开封市宋城路四大街11号 海神机械院内五号厂房 电话: 0371-23335238	5th Workshop, Haishen Machinery, No.11, Fourth Street, Songcheng Road,New District, Kaifeng City, Henan Province, China TEL: 0371-23335238
博能传动(长沙)有限公司	BONENG TRANSMISSION(CHANGSHA)CO.,LTD.
湖南省长沙市望城经济开发区 普瑞大道1288号 电话: 0731-88386958	No. 1288 Puri Avenue, Wangcheng Economic Development Zone, Changsha City, Hunan Province, China TEL: 0731-88386958
博能传动设备(成都)有限公司	BONENG TRANSMISSION EQUIPMENT(CHENGDU) CO., LTD.
四川省成都市金牛区金牛坝路9号5栋 向荣中心A座7楼-703 电话: 028-87741100	703, 7th Floor, Block A, Xiangrong Center, Building 5, No. 9 Jinniuba Road, Jinniu District, Chengdu City, Sichuan Province, China TEL: 028-87741100
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广东省肇庆市鼎湖区肇庆新区 科创大道7号平谦国际现代产业园 一期A12北厂房 电话: 0757-86719757	No. 7 Science and Technology Innovation Avenue, Zhaoqing New Area, Dinghu District, Zhaoqing City, Guangdong Province, China TEL: 0757-86719757
博能传动(苏州)有限公司	BONENG TRANSMISSION(SUZHOU)CO.,LTD.
江苏省苏州市相城区如元路100号 电话: 0512-66189662	No. 100, Ruyuan Road, Xiangcheng District, Suzhou, Jiangsu Province, China TEL: 0512-66189662

博能传动(美国)有限公司	BONENG TRANSMISSION(USA)LLC.
1250 E 222nd Euclid, OH 44117, United Staes TEL: 1-216-618-0138 TEL: 1-216-618-0496 TEL: 1-216-618-3099	1250 E 222nd Euclid, OH 44117, United Staes TEL: 1-216-618-0138 TEL: 1-216-618-0496 TEL: 1-216-618-3099
博能传动(印度)有限公司	BONENG TRANSMISSION(INDIA)PVT.LTD
Plot No. E-10/3, MIDC sinnar (Malegaon) Industrial Area, Nashik, 422123, Maharashtra, India. TEL:+91-11- 4507 6293 (DELHI) TEL:+91-22-2781 3385 (MUMBAI)	Plot No. E-10/3, MIDC sinnar (Malegaon) Industrial Area, Nashik, 422123, Maharashtra, India. TEL:+91-11- 4507 6293 (DELHI) TEL:+91-22-2781 3385 (MUMBAI)