

MU CHUN 木春电机

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MU CHUN 木春电机

超高效率 动力强劲 性能稳定
PREMIUM EFFICIENCY STRONG POWER STABLE PERFORMANCE

MU CHUN MOTOR



直流无刷减速电机
DC BRUSHLESS GEAR MOTOR

微型交流减速电动机
MICRO AC GEAR MOTOR

中型交流减速电动机
MEDIUM AC GEAR MOTOR

普通铝壳电机
ORDINARY ALUMINUM SHELL MOTOR

四大系列硬齿面减速机
HARD GEAR REDUCER

广东木春电机工业有限公司
GUANGDONG MUCHUN MOTOR INDUSTRY CO., LTD



公司简介 Company profile

广东木春电机工业有限公司成立于2017年，基地位于东莞市虎门镇，引进先进自动化生产设备及精密检测设备，产品覆盖工业自动化，机床，工业机器人，农业机械，太阳能等领域，目前我司开发产品有微型交直流减速电机，直角减速电机，中型齿轮减速电机，四大系列减速机，铝壳电机，变频调速器，精密行星减速机，中空旋转平台。致力于为客户提供优质卓越的产品，为客户解决问题，为客户创造价值。

我们在行进的道路上以“勇担重担、追求卓越、引领创新”的企业精神登高望远，恪守“品德至尚、品质精优、品牌卓越”的企业核心价值观，以“尊重人才、培育人才、人尽其才、共同发展”的人才理念，努力打造一支国际化、专业化的人才队伍，为企业的前行提供不竭的动力。

我们渴望合作，渴望共赢，我们不仅要经得起时间的考验，更要与合作伙伴风雨同舟，共谋发展。

Guangdong Mochun Motor Industry Co., Ltd. was founded in 2017, the base is located in Humen town, Dongguan City, the introduction of advanced automated production equipment and precision testing equipment, products covering industrial automation, machine tools, industrial robots, agricultural machinery, solar energy and other fields, our company has developed products such as micro AC and DC gear motor, right Angle gear motor, medium gear motor, Four series reducer, aluminum motor, variable frequency governor, precision planetary reducer, hollow rotating platform. We are committed to providing customers with high quality and excellent products, solving problems for customers and creating value for customers.

We are on the road to "brave to bear the burden, the pursuit of excellence, leading innovation" of the spirit of enterprise, adhere to the "moral character, quality, brand excellence" of the core values of the enterprise, to "respect talent, cultivate talent, make the best of talent, common development" talent concept, and strive to create an international, professional talent team. Provide inexhaustible power for the enterprise to move forward..

We are eager for cooperation and win-win. We should not only stand the test of time, but also work together with our partners to seek common development.

立绕机
Vertical winding machine

嵌线机
Inserting machine

数控滚齿机
CNC gear hobbing machine

精密齿轮检测仪
Precision gear detector

超低噪音 Ultra-low noise

采用高精度滚齿机和滚刀加工高精度斜齿轮，精度高达IT5~6级；
采用合金钢渗碳热处理，长期运转变形小，精度高。
Using high-precision hobbing machine and hob to process high-precision helical gear, the accuracy is as high as IT5~6;
Alloy steel carburizing heat treatment, long-term operation deformation is small, high precision.

结构牢固 Strong structure

齿轮与轴紧配带键压配结构，连接在冲击负载，正反转运转不易损坏。
直角减速箱采用格雷森弧齿结构，传动效率高，无自锁、牢固耐用。
The gear and shaft are tightly matched with the key pressing structure, connected to the impact load, and the positive and negative rotation is not easy to damage.
Right-angle gear box adopts Grayson arc tooth structure, high Transmission efficiency, no self-locking, firm and durable.

高可靠性 High reliability

采用F级(155度)H级(180度)耐高温漆包线及绝缘材料，安全余量大。
F grade (155 degrees)H grade (180 degrees) high temperature resistant enamelled wire and insulation material, large safety margin.

高效能电机·高性价比之选

High performance motor · Cost-effective choice



高精度/High precision

稳定运行/Steady operation

减速电机的齿轮经两次热处理;
两次硬齿面精密磨齿加工;
精度达批量6级, 耐磨层达 $\pm 1\text{mm}$;

The gear of the reducer motor is heat treated twice;
Precision grinding of twice hard tooth surface;
Accuracy up to batch 6, wear layer up to $\pm 1\text{mm}$;



长寿命/long-life

进口材料/Imported material

减速机齿轮由特殊钢材经过先进的加工;
线圈采用F级(155度)H级(180度)耐高温漆包线及绝缘材料, 安全余量大;

Reducer gear made of special steel through advanced machining;
The coil adopts F (155 degrees)H (180 degrees) high temperature resistant enamelled wire and insulation material, with large safety margin;



体积小/Small size

减轻重量/Reduce weight

减速机外壳采用高强度合金铝减轻了整机的重量, 体积设计小化;

The reducer shell adopts high-strength alloy aluminum to reduce the weight of the whole machine and reduce the volume design;



低噪音/Low noise

降低磨损/Reduce wear

噪音达到标准不大于60分贝;
The noise meets the standard not more than 60 dB;



效率/Efficiency

高于同行10%/10% higher than peers

使用高性能牌号硅钢材料, 温身低, 效率高;
The use of high-performance grade silicon steel material, low temperature, high efficiency;



易安装/Easy to install

安装方便/Easy to install



产品总览/Product overview

一、微型交直流无刷减速电机/Micro AC DC brushless gear motor



二、中型交流减速电动机/Medium AC reduction motor



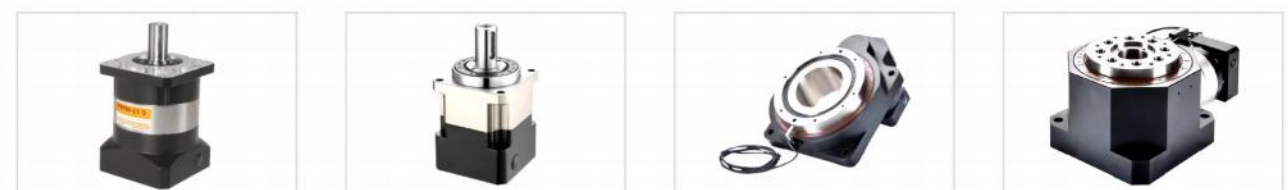
三、铝壳电机 & RV减速机 & 变频器/Aluminum motor & RV Reducer & Inverter



四、四大系列硬齿面减速机/Hard gear reducer



五、精密行星减速机 & 旋转平台/Precision planetary Reducer & Rotating platform



六、东元电机 & 丝杆升降机/Dongyuan Motor & Screw elevator



直流交流无刷减速电机
 DC BRUSHLESS GEAR MOTOR



型号阅读方法
 PRODUCT CODE

▶电动机/Motor

M - 5 - BLD - 90 - 220 - GN(L) - 25S - M
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧

①	公司名称 Comanpy	木春电机 MUCHUN MOTOR			
②	座机号 Code	2	4	5	6
	电机安装法兰 Mounting flange mm	□60	□80	□90	□100
	机壳尺寸 Case dimension	60*60	80*80	90*90	100*100
③	电机种类 Motor type	BLD: 无刷直流电机 BLD: DC Brushless gear motor			
④	输出功率 (W)Output power (W)	(例e.g) 90: 90W			
⑤	电源电压 Voltage	(例e.g)24: 24VDC(可选电压24V~48VDC,单相100V~120VAC,单相220V~240VAC,50/60Hz) 24: 24VDC (Optional voltage 24V~48VDC, single phase 100V~120VAC, single phase 220V~240VAC, 50/60Hz)			
⑥	相对于方型减速箱 Relative to square type gear box:	GN: GN型齿轮轴 GN type gear shaft GU: GU型齿轮轴 GU type gear shaft			
	齿轴形状 Motor shaft type	GN: GN型齿轮轴 GN type gear shaft GU: GU型齿轮轴 GU type gear shaft			
	相对于L型减速箱L type gearbox:	GNL: GN型L系列齿轮轴(主要为2&4系列) Type L GN series gear shaft (Mainly for 2&4 series) GUL: GU型L系列齿轮轴(主要为5&6系列) Type L GU series gear shaft(Mainly for 5&6 series)			
⑦	齿轴形状 Shaft shape	GNL: GN型L系列齿轮轴(主要为2&4系列) Type L GN series gear shaft (Mainly for 2&4 series) GUL: GU型L系列齿轮轴(主要为5&6系列) Type L GU series gear shaft(Mainly for 5&6 series)			
	光电机出轴形状 Shape of the output shaft:	A: 圆轴型 Circular shaft type A1: 键槽型 Keyway type			
⑧	电机转速 Motor speed	(例e.g) 25S: 2500RPM 低压时为30S Low voltage for 30S			
⑨	电机附加配件 M: 电磁刹车器 BFE: 闭环反馈方式, 一般指电机增加编码器(包括简易型霍尔编码器) Motor parts M: Electromagnetic brake BFE: Closed loop feedback mode, generally refers to the motor to increase the encoder (Including the simple holzer encoder)				

▶方型减速器/Square Shape Gearbox

5 GN 50 K
 ① ② ③ ④

①	减速机安装尺寸 Gearhead frame size	2: 60mm 4: 80mm 5: 90mm 6: 104mm
②	类型Gear type	GN: GN型齿轮轴 GN type gear GU: GU型齿轮轴 GU type gear
③	减速比 Gear ratio	(例e.g) 50: 减速比 50: Reduction ratio
④	轴承种类 Bearing type	K: 滚珠轴承(对GU型方箱体标注为KB) K: Ball bearing (On the GU type square box marked as KB)

▶L型减速器/L Type Gearbox

5 GU 50 LC
 ① ② ③ ④

①	减速机安装尺寸 Gearhead frame size	2: 60mm 4: 80mm 5: 90mm 6: 104mm
②	类型Gear type	GN: GN型齿轮轴(针对L系列2&4) Type GN gear shaft (For L series 2&4) GU: GU型齿轮轴(针对L系列5&6) Type GU gear shaft (For L series 5&6)
③	减速比 Gear ratio	(例e.g) 50: 减速比 50: Reduction ratio
④	减速箱类型 Bearing type	LC:L型空心轴输出减速器 L type hollow shaft output reducer RC: 弧锥齿空心轴输出 Hollow shaft output of spiral bevel gear RT: 弧锥齿实心轴输出 Solid shaft output of spiral bevel gear

5系列直流无刷减速电机 (GU型)
 5 Series DC brushless Gear Motor (GU type)



电机基本特性/Basic Characteristics Of Motor

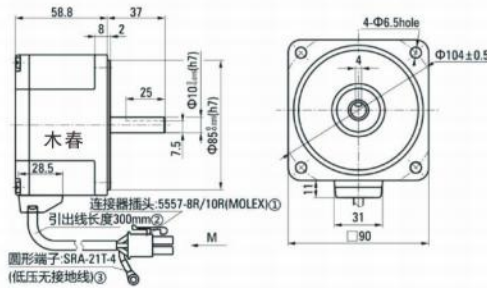
120W (DC电源时适用于24VDC/36VDC/48VDC)/120W(DC Power Supply When Applied To 24VDC/36VDC/48VDC)

额定功率(连续)Rated power(continuous)	W	120(60W/90W/120W)
额定转速 Rated speed	r/min	2500
额定转矩 Rated torque	N.m	0.458
瞬时最大转矩Instantaneous maximum torque	N.m	0.687
转子转动惯量Rotor moment of inertia	J:X10 ⁻⁴ kg.m ²	0.250
速度控制范围 Speed control range	RPM	高压High pressure 200~2500RPM(低压Low pressure 200~3000RPM)
速率变化率 Speed control range	对负载On load	±1.0%以下:条件额定转矩、额定转速、额定电压、常温 Below ±1%: condition rated torque, rated speed, rated voltage, room temperature
	对电压On voltage	±1.0%以下:条件额定电压±10%、额定转速、额定负载、常温 Below ±1%: condition rated voltage ±10%, rated speed, rated load, room temperature
	对温度On temperature	±1.0%以下:条件使用环境温度0~+40℃ 额定转速、额定负载、额定电压 Below ±1%: Conditions of ambient temperature 0~+40℃ rated voltage, rated load and rated speed
电源输入 Power input	额定电压 Rated voltage	V 单相Single phase 110V 单相Single phase 220V 24VDC(可选Optional 36VDC/48VDC)
	电压容许范围 Voltage tolerance range	±10%
	频率 Frequency	Hz 50/60 /
	频率容许范围 Frequency tolerance range	±5% /
	额定输入电流 Rated input current	A 3.5 2.0 6.8
	瞬时最大输入电流 Instantaneous maximum input current	A 7.0 4.5 13.0

方型减速机/Square reducer

M90BLD120-24A-25S—电压 Voltage 24/36/48/110/220

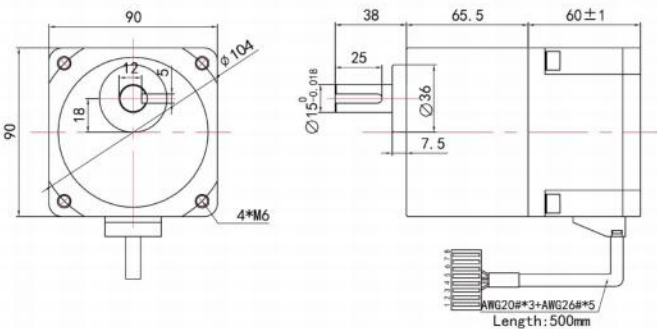
M90BLD120-24A-25S尺寸图 Dimension drawing(标准驱动器 Standard Drive)



- ① Connector: 5557-8R/10R (MOLEX)
 ② Lead wire length 300mm
 ③ Round terminal: SRA-21T-4 (low ground)

低压电机接线插孔对应信号说明
 Low Voltage Wrie Plughole Corresp-onding Signal Explanation

Plughole signal	1	2	3	4
plughole signal	U	W	Hz	Hu
Plughole signal	5	6	7	8
plughole signal	V	GND	Hw	Voc



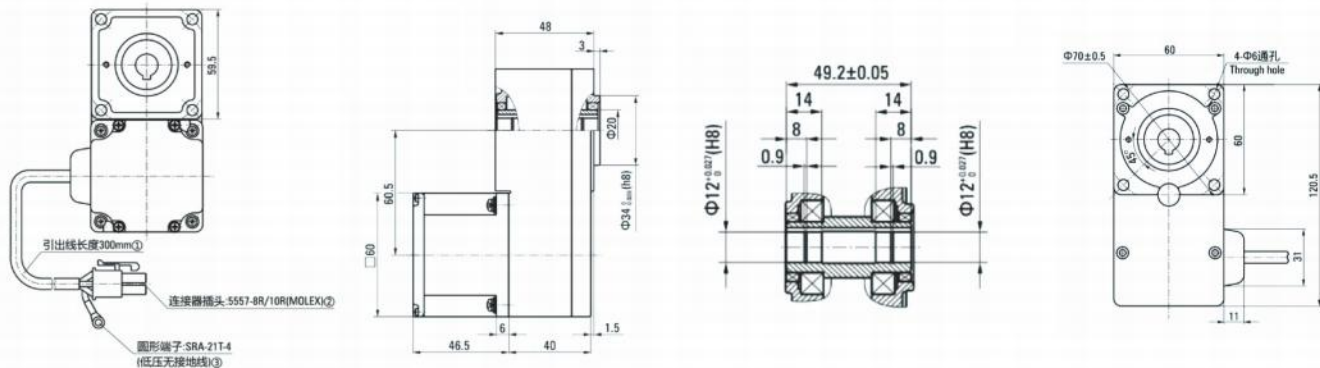
高压电机接线插孔对应信号说明
 High Voltage Wrie Plughole Corresp-onding Signal Explanation

1	2	3	4	5	6	7	8	9	10
蓝	黄	灰	绿	粉	棕	金属丝网	橙	白	
W	Hu	U	Hv	V	Hw		Voc+5V	GND	

L型减速机 / L Type Speed Reducer

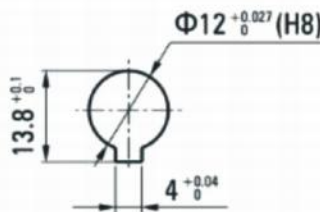
M5BLD120-24GU-25S-LC

电压 Voltage 24/36/48/110/220 速比数值 Velocity Ratio Value



- ① Lead wire length 300mm ② Connector: 5557-8R/10R (MOLEX) ③ Round terminal: SRA-21T-4 (low ground)

输出轴内孔结构/The Output Shaft Hole Structure



M5BLD60-24GU-25S-LC 整机容许力矩(单位: N.m)/M5BLD60-24GU-25S-LC Machine Allowable Torque (Unit: N.m)

电机轴转速 Motor Speed	5	10	15	20	30	50	100	200
200~1500RPM	1.09	2.18	3.26	4.35	6.53	10.9	21.8	43.5
2000RPM	0.92	1.84	2.76	3.68	5.52	9.20	18.4	36.8
2500RPM	0.84	1.67	2.51	3.35	5.02	8.37	16.7	33.5

M5BLD90-24GU-25S-LC 整机容许力矩(单位: N.m)/M5BLD90-24GU-25S-LC Machine Allowable Torque (Unit: N.m)

电机轴转速 Motor Speed	5	10	15	20	30	50	100	200
200~1500RPM	1.63	3.26	4.90	6.53	9.79	16.3	32.6	65.3
2000RPM	1.38	2.76	4.14	5.52	8.28	13.8	27.6	55.2
2500RPM	1.25	2.51	3.76	5.02	7.53	12.5	25.1	50.2

M5BLD120-24GU-25S-LC 整机容许力矩(单位: N.m)/M5BLD120-24GU-25S-LC Machine Allowable Torque (Unit: N.m)

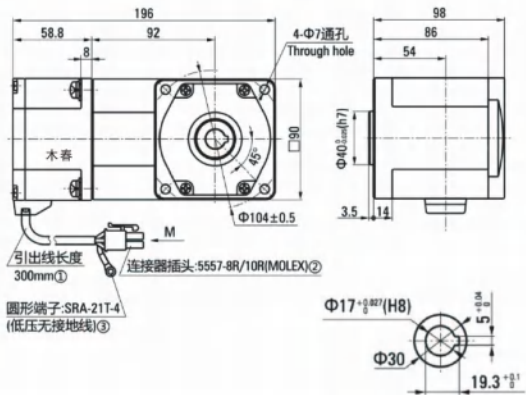
电机轴转速 Motor Speed	5	10	15	20	30	50	100	200
200~1500RPM	2.41	4.83	7.24	9.65	13.1	21.8	43.5	68.0
2000RPM	2.04	4.08	6.13	8.17	11.0	18.4	36.8	66.6
2500RPM	1.86	3.71	5.57	7.43	10.0	16.7	33.5	60.5

注Note: 表格中的所有速比旋转方向与电机转向相反。All gearbox output turn direction in form are opposite as motor turn direction.
 (不同转速及速比下的力矩为标准驱动器下测试所得。The torque under different speed and speed ratio is obtained under the standard.)

弧锥直角减速电机 Arc Cone Right Angle Speed Reducer Motor

M5BLD120-24GU-255-RC

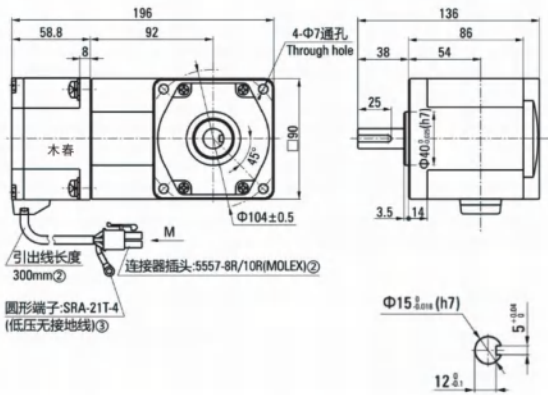
电压 Voltage 24/36/48/110/220
 速比数值 Velocity Ratio Value



①The sheath length of lead line 300mm ②Connector: 5557-8R/10R (MOLEX) ③Round terminal: SRA-21T-4 (low ground)

M5BLD120-24GU-255-RT

电压 Voltage 24/36/48/110/220
 速比数值 Velocity Ratio Value



M5BLD60-24GU-25S-RC/RT 整机容许力矩(单位: N.m)/M5BLD60-24GU-25S-RC/RT Machine Allowable Torque (Unit: N.m)

型号 Model	电机轴转速 Motor Speed	减速比 Reduction Ratio	7.5	9	10	12.5	15	18	20	25	30	36	50	60	75	90	100	120	150	180
M5BLD60-□GU	200~1500RPM		1.81	2.17	2.41	3.02	3.62	4.34	4.35	5.44	6.53	7.83	9.83	10.0	10.0	10.0	10.0	10.0	10.0	10.0
	2000RPM		1.53	1.84	2.04	2.55	3.06	3.68	3.68	4.60	5.52	6.63	8.32	9.98	10.0	10.0	10.0	10.0	10.0	10.0
	2500RPM		1.39	1.67	1.86	2.32	2.78	3.34	3.35	4.18	5.02	6.02	7.56	9.08	10.0	10.0	10.0	10.0	10.0	10.0

M5BLD90-24GU-25S-RC/RT 整机容许力矩(单位: N.m)/M5BLD90-24GU-25S-RC/RT Machine Allowable Torque (Unit: Nm)

型号 Model	电机轴转速 Motor Speed	减速比 Reduction Ratio	7.5	9	10	12.5	15	18	20	25	30	36	50	60	75	90	100	120	150	180
M5BLD90-□GU	200~1500RPM		2.72	3.26	3.62	4.53	5.43	6.52	6.53	8.16	9.79	11.8	14.7	17.7	20.0	20.0	20.0	20.0	20.0	20.0
	2000RPM		2.30	2.76	3.06	3.83	4.59	5.51	5.52	6.90	8.28	9.94	12.5	15.0	18.7	20.0	20.0	20.0	20.0	20.0
	2500RPM		2.09	2.51	2.78	3.48	4.18	5.01	5.02	6.27	7.53	9.04	11.3	13.6	17.0	20.0	20.0	20.0	20.0	20.0

M5BLD120-24GU-25S-RC/RT 整机容许力矩(单位: N.m)/M5BLD120-24GU-25S-RC/RT Machine Allowable Torque (Unit: N.m)

型号 Model	电机轴转速 Motor Speed	减速比 Reduction Ratio	7.5	9	10	12.5	15	18	20	25	30	36	50	60	75	90	100	120	150	180
M5BLD120-□GU	200~1500RPM		3.62	4.34	4.35	5.44	6.53	7.83	7.87	9.83	11.8	14.2	19.7	20.0	20.0	20.0	20.0	20.0	20.0	20.0
	2000RPM		3.06	3.68	3.68	4.60	5.52	6.63	6.66	8.32	9.98	12.0	16.6	20.0	20.0	20.0	20.0	20.0	20.0	20.0
	2500RPM		2.78	3.34	3.35	4.18	5.02	6.02	6.05	7.56	9.08	10.9	15.1	18.2	20.0	20.0	20.0	20.0	20.0	20.0

注Note:
 表格中的 (灰底部分)表示旋转方向与电机转向一致。
 The (gray) in the table indicates that the rotation direction is consistent with the motor.
 (不同转速及速比下的力矩为标准驱动器下测试所得。)
 (The torque under different speed and speed ratio is obtained under the standard.)

6系列直流无刷减速电机
 6 series DC brushless gear motor



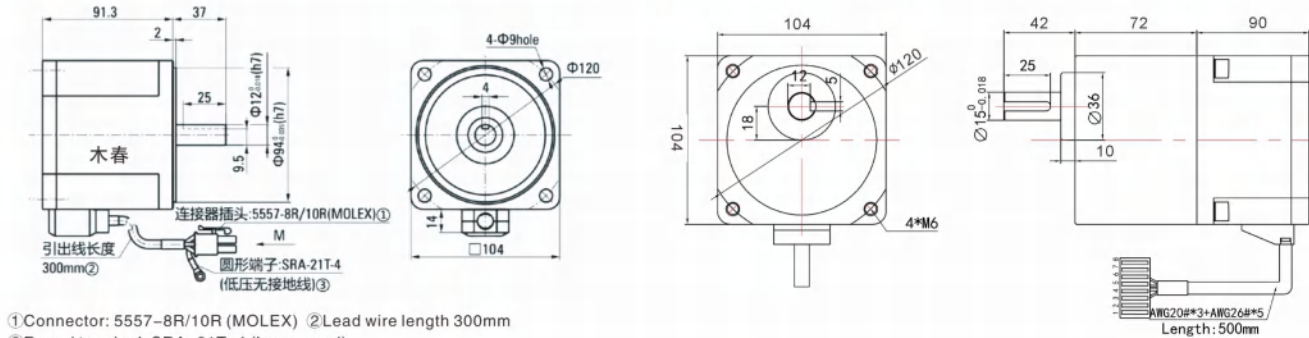
电机基本特性/Basic Characteristics Of Motor

200W(DC电源时适用于24VDC/36VDC/48VDC) /200W(DC Power Supply When Applied To 24VDC/36VDC/48VDC)

额定功率(连续)Rated power(continuous)	W	200(200W/400W)
额定转速 Rated speed	r/min	2500
额定转矩 Rated torque	N.m	0.764
瞬时最大转矩Instantaneous maximum torque	N.m	1.146
转子转动惯量Rotor moment of inertia	J:X10 ⁻⁴ kg.m ²	0.460
速度控制范围 Speed control range	RPM	高压High pressure 200~2500RPM(低压Low pressure 200~3000RPM)
速率变化率	对负载On load	±1.0%以下:条件额定转矩、额定转速、额定电压、常温 Below ±1%: condition rated torque, rated speed, rated voltage, room temperature
	对电压On voltage	±1.0%以下:条件额定电压±10%、额定转速、额定负载、常温 Below ±1%: condition rated voltage ±10%, rated speed, rated load, room temperature
	对温度On temperature	±1.0%以下:条件使用环境温度0~+40℃ 额定转速、额定负载、额定电压 Below ±1%: Conditions of ambient temperature 0~ +40℃ rated voltage, rated load and rated speed
电源输入	额定电压 Rated voltage	V 单相Single phase 110V 单相Single phase 220V 36VDC(可选Optional 48VDC)
	电压容许范围 Voltage tolerance range	±10%
	频率 Frequency	Hz 50/60
	频率容许范围 Frequency tolerance range	±5%
	额定输入电流 Rated input current	A 4.7 2.4 7.5
	瞬时最大输入电流 Instantaneous maximum input current	A 9.0 4.8 11.5

方型减速机/Square reducer

M104BLD200-24A-25S—电压 Voltage 24/36/48/110/220
 M104BLD200-24A-25S尺寸图 Dimension drawing(标准驱动器 Standard Drive)



①Connector: 5557-8R/10R (MOLEX) ②Lead wire length 300mm ③Round terminal: SRA-21T-4 (low ground)

低压电机接线插孔对应信号说明
 Low Voltage Wrie Plughole Corresp-onding Signal Explanation

Plughole	1	2	3	4
signal	U	W	H _z	H _u
plughole	5	6	7	8
signal	V	OND	H _w	Vcc

高压电机接线插孔对应信号说明
 High Voltage Wrie Plughole Corresp-onding Signal Explanation

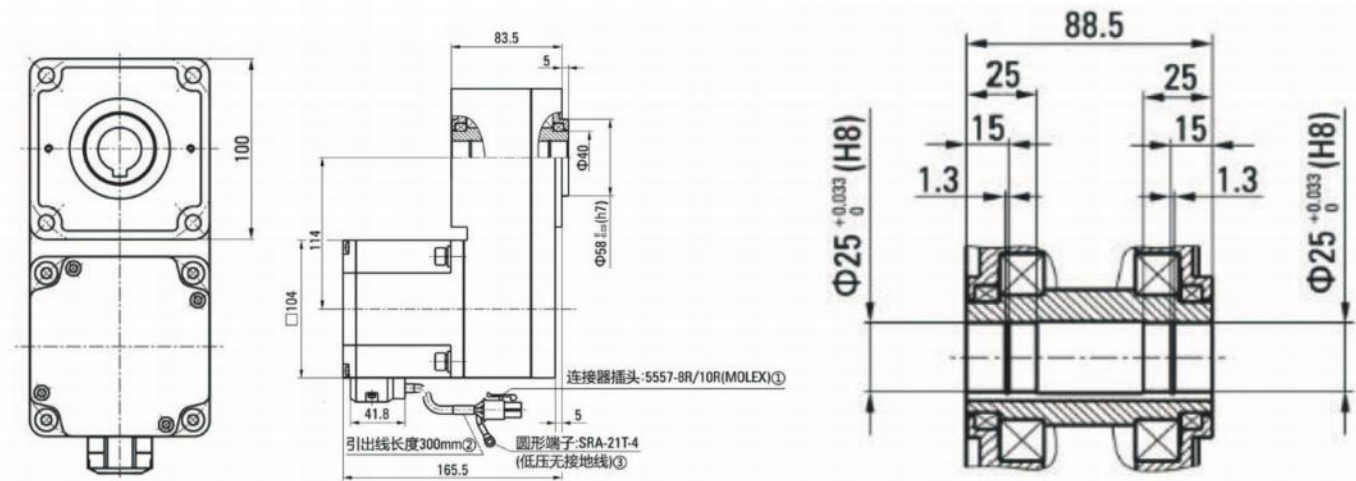
排线对应的意义	1	2	3	4	5	6	7	8	9	10
	蓝	黄	灰	绿	粉	棕	金属丝网	棕	白	
	W	H _u	U	H _v	V	H _w		Vcc+5V	GND	

▶200W

■L型减速机 L Type Speed Reducer

M6BLD200-24GU-25S-LC

■-电压 Voltage 24/36/48/110/220 □-速比数值 Velocity Ratio Value



①Connector: 5557-8R/10R (MOLEX) ②Lead wire length 300mm
 ③Round terminal: SRA-21T-4 (low ground)

■输出轴内孔结构 The Output Shaft Hole Structure



■M6BLD200-24GU-25S-LC 整机容许力矩(单位: N.m)/M6BLD200-24GU-25S-LC Machine Allowable Torque (Unit: N.m)

电机轴转速 Motor Speed	5	10	15	20	30	50	100	200
200~1500RPM	4.02	8.04	12.1	16.1	21.8	36.3	72.5	120
2000RPM	3.40	6.81	10.2	13.6	18.4	30.7	61.3	110
2500RPM	3.09	6.19	9.28	12.4	16.7	27.9	55.8	100

■M6BLD400-24GU-25S-LC 整机容许力矩(单位: N.m)/M6BLD400-24GU-25S-LC Machine Allowable Torque (Unit: N.m)

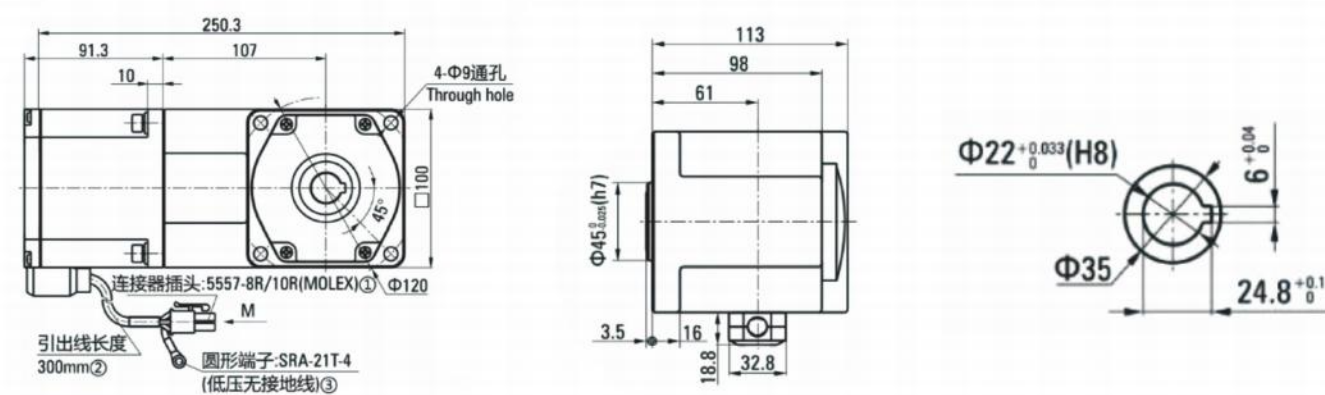
电机轴转速 Motor Speed	5	10	15	20	30	50	100	200
200~1500RPM	7.25	14.5	21.8	29.0	43.5	72.5	120	120
2000RPM	6.13	12.3	18.4	24.5	36.8	61.3	120	120
2500RPM	5.58	11.2	16.7	22.3	33.5	55.8	112	120

注Note: 表格中的所有速比旋转方向与电机转向相反。All gearbox output turn direction in form are opposite as motor turn direction.
 (不同转速及速比下的力矩为标准驱动器下测试所得。The torque under different speed and speed ratio is obtained under the standard.)

■弧锥直角减速电机 Arc Cone Right Angle Speed Reducer Motor

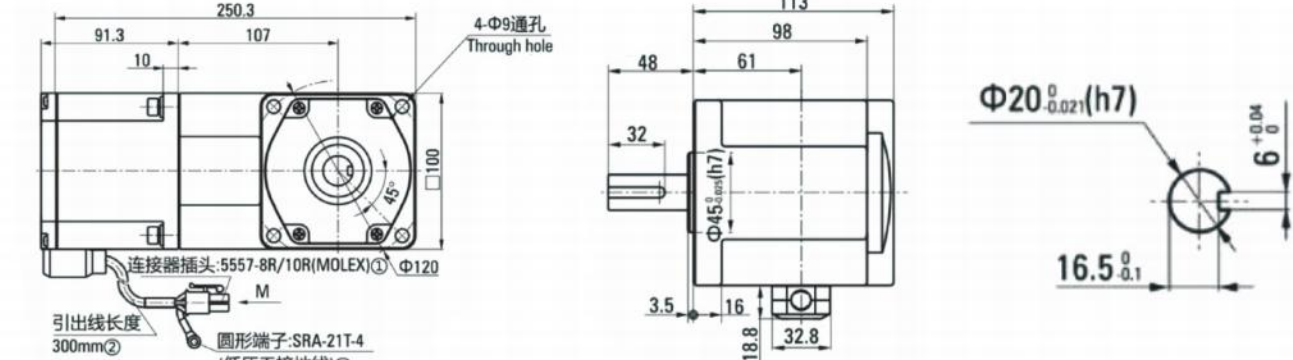
M6BLD200-24GU-25S-RC/RT

■-电压 Voltage 24/36/48/110/220 □-速比数值 Velocity Ratio Value



M6BLD200-24GU-25S-RC/RT

■-电压 Voltage 24/36/48/110/220 □-速比数值 Velocity Ratio Value



①Connector: 5557-8R/10R (MOLEX) ②The sheath length of lead line 300mm ③Round terminal: SRA-21T-4 (low ground)

■M6BLD200-24GU-25S-RC/RT 整机容许力矩(单位: N.m)/M6BLD200-24GU-25S-RC/RT Machine Allowable Torque (Unit: N.m)

型号 Model	电机轴转速 Motor Speed	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180	200
M5BLD200-■GU	200~1500RPM	6.03	7.24	9.06	10.9	13.1	16.4	19.7	23.6	32.8	39.3	40.0	40.0	40.0	40.0	40.0	40.0	40.0
	2000RPM	5.11	6.13	7.67	9.20	11.0	13.9	16.6	20.0	27.7	33.3	40.0	40.0	40.0	40.0	40.0	40.0	40.0
	2500RPM	4.64	5.57	6.97	8.37	10.0	12.6	15.1	18.2	25.2	30.3	37.8	40.0	40.0	40.0	40.0	40.0	40.0

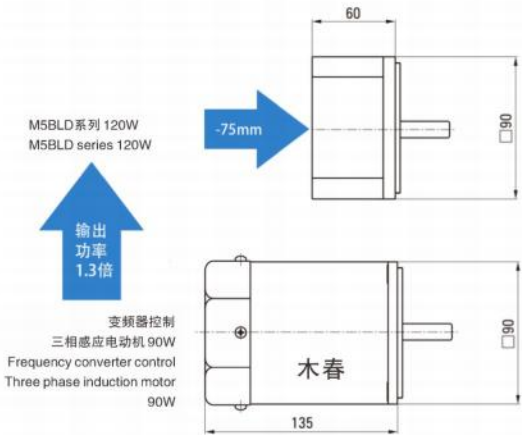
■M6BLD400-24GU-25S-RC/RT 整机容许力矩(单位: N.m)/M6BLD400-24GU-25S-RC/RT Machine Allowable Torque (Unit: N.m)

型号 Model	电机轴转速 Motor Speed	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180	200
M5BLD400-■GU	200~1500RPM	12.1	14.5	14.5	18.1	21.8	26.1	26.2	32.8	39.3	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
	2000RPM	10.2	12.3	12.3	15.3	18.4	22.1	22.2	27.7	33.3	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
	2500RPM	9.28	11.1	11.2	13.9	16.7	20.1	20.2	25.2	30.3	36.3	40.0	40.0	40.0	40.0	40.0	40.0	40.0

注Note: 表格中的 (灰底部分)表示旋转方向与电机转向一致。
 The (gray) in the table indicates that the rotation direction is consistent with the motor.
 (不同转速及速比下的力矩为标准驱动器下测试所得。)
 (The torque under different speed and speed ratio is obtained under the standard.)

► 薄型、大功率/Thin,High Power

无刷电动机的转子使用永磁体，因此实现了薄型和大功率；比如，与安装尺寸90的三相感应电动机相比总长缩短>75mm，输出功率达到1.3倍。若采用无刷电动机，有助于实现装置的小型化。
 Brushless DC motors have a slim body and provide high power due to permanent magnets being used in the rotor. For example, the overall length is 75mm shorter and the output power is 1.3 times higher than that of three-phase induction motors with a frame size of 90mm. Using brushless DC motors can contribute to downsizing and space saving.



► 搭载保护功能，有助于保护设备系统的安全/Protection Function,Help To Protect The Safety Of The Equipment System

由于加载了过流、欠压、缺相等保护功能，因此可保证设备系统运行时的安全。
 Due to the load of the overcurrent, undervoltage, open phase protection, for this reason can ensure the safety of equipment system.

► 电机的规格--转速/Motor specifications - speed

电机轴转速 Motor Speed	减速比 Reduction Ratio	3	3.6	5	6	7.5	9	10	12.5	15	18	20	25
200~1500RPM	出轴转速 Output Shaft Speed	67~500	56~417	40~300	33~250	27~200	22~167	20~150	16~120	13~100	11~83	10~75	8~60
2000RPM		667	556	400	334	267	223	200	160	134	112	100	80
2500RPM		833	695	500	417	334	278	250	200	167	139	125	100

电机轴转速 Motor Speed	减速比 Reduction Ratio	30	36	50	60	75	90	100	120	150	180	200
200~1500RPM	出轴转速 Output Shaft Speed	7~50	6~42	4~30	3~25	3~20	2~17	2~15	2~12.5	1.5~10	1~8	1~7.5
2000RPM		67	56	40	34	27	23	20	17	14	12	10
2500RPM		84	70	50	42	34	28	25	21	17	14	12.5

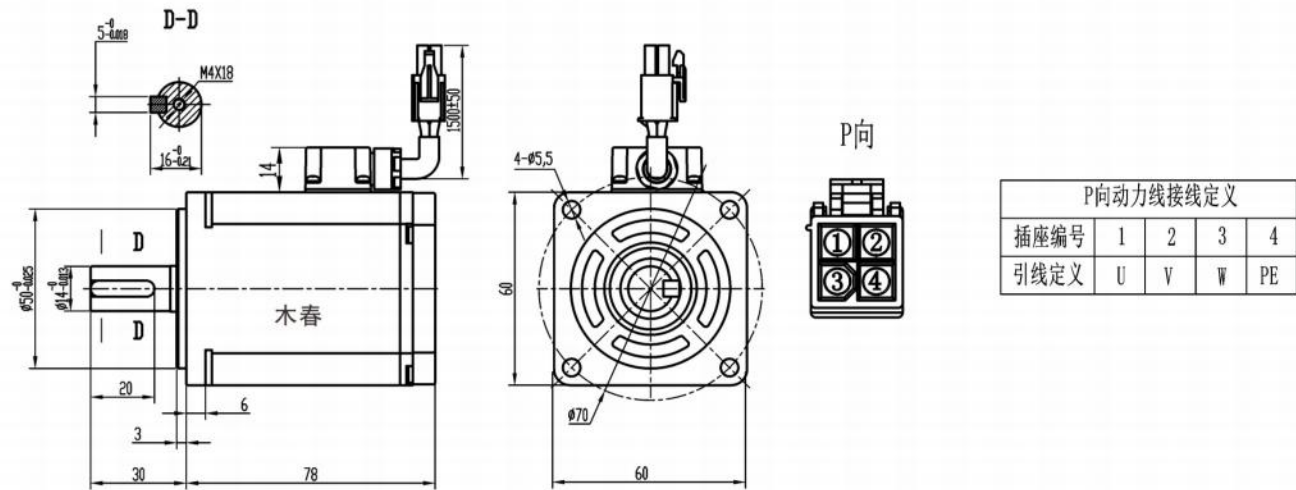
► 电机的规格--产品种类/Motor specifications - product categories

电动机 Motor	方形尺寸 Square Size	输出功率 Output Power	机型 Model	驱动器 Driver 电源电压 Voltage Supply
	60X60	15、25	标准型 Standard type IP40 或Or IP54	DC24~48V 单相 Single phase 220~240V
	80X80	40、60		
	90X90(GN)	40、60		
	90X90(GU)	60、90、120		
	104X104	200、400		

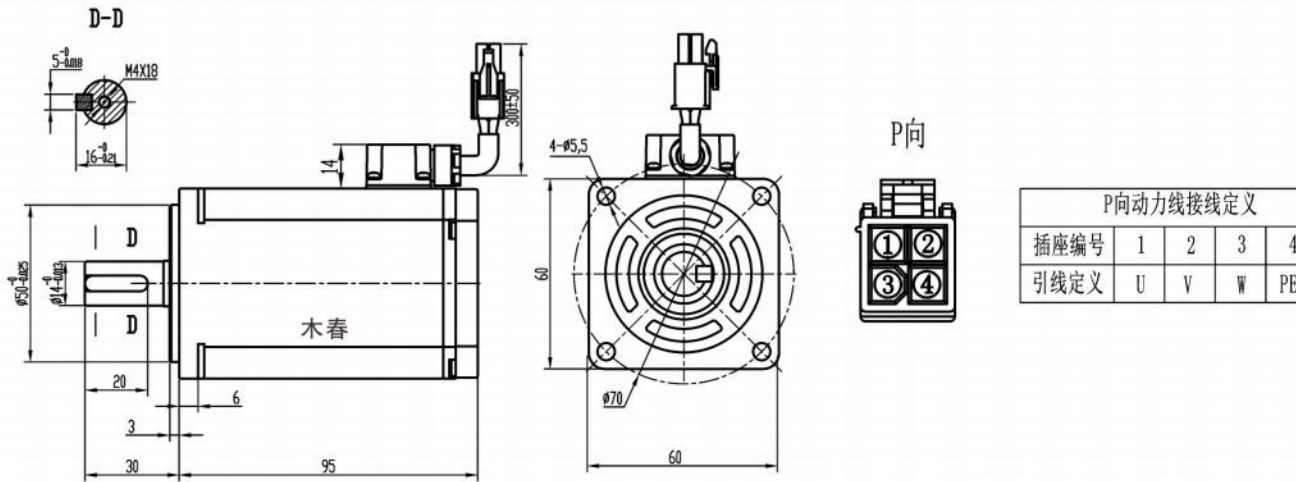
永磁电机行星减速机
 PERMANENT MAGNET MOTOR PLANETARY REDUCER



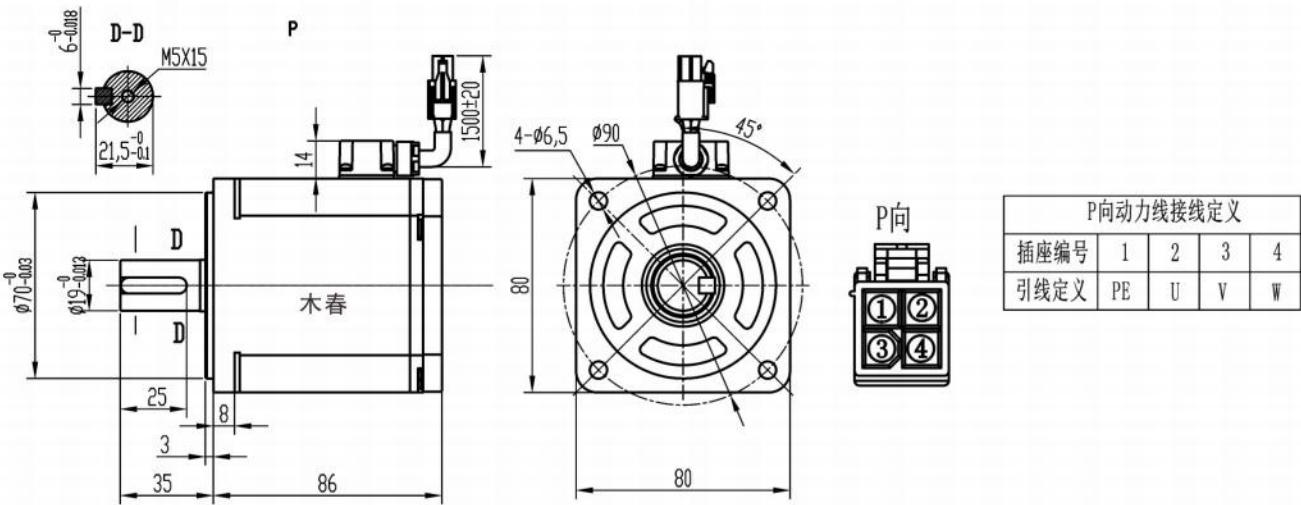
► M60BLD-400电机标准尺寸/M60bld-400 motor standard size



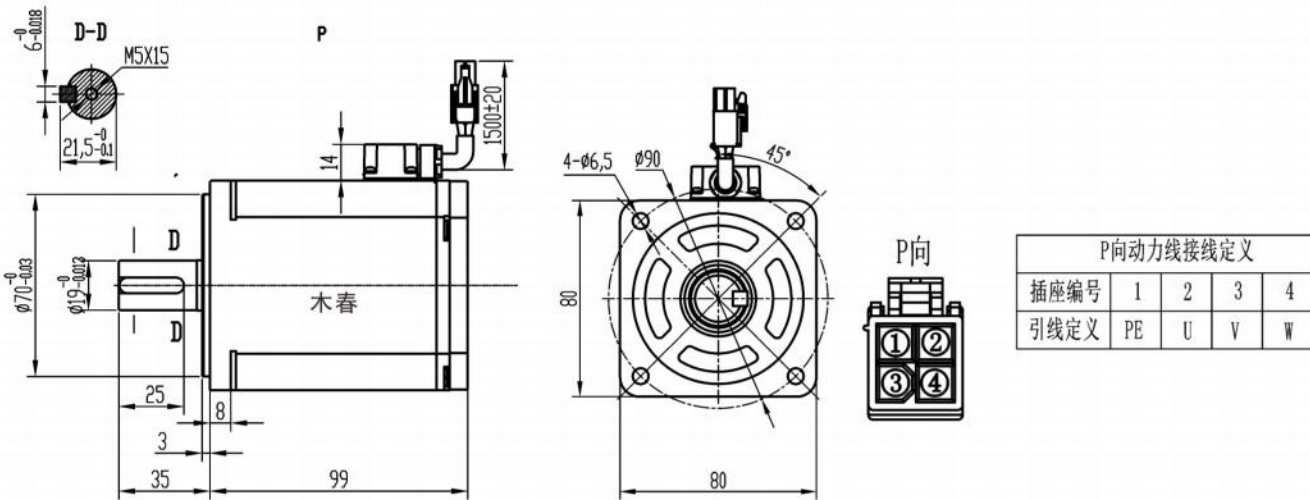
► M60BLD-600电机标准尺寸/M60bld-600 motor standard size



▶M80BLD-750电机标准尺寸/M80bld-750 motor standard size



▶M80BLD-1000电机标准尺寸/M80bld-1000 motor standard size



电机参数/Motor parameter		M60BLD-400	M60BLD-600	M80BLD-750	M80BLD-1000
额定电压	Rated voltage	220V	220V	220V	220V
额定输出功率	Rated output power	400W	600W	750W	1000W
额定转速	Rated speed	3000rpm	3000rpm	3000rpm	3000rpm
最大转速	Maximum speed				
额定转矩	Rated torque	1.27N · m	1.91N · m	2.93N · m	3.3N · m
峰值转矩	Peak torque	3.81N · m	5.73N · m	7.71N · m	9.9N · m
额定电流	Rated current	1.3A	2.1A	2.5A	3.2A
峰值电流	Peak current	3.9A	6.3A	7.5A	9.6A
转子惯量	Rotor inertia	0.52x10 ⁻⁴ Kg · m ²	0.77x10 ⁻⁴ Kg · m ²	1.48x10 ⁻³ Kg · m ²	2.27x10 ⁻³ Kg · m ²
力矩系数	Moment coefficient	0.508N.m/A	0.3N.m/A		0.56N.m/A
反电势	Counter potential				
线间电阻 (20℃)	Interline resistance (20℃)				
线间电感 (20℃)	Interline inductance (20℃)				
电气时间常数	Electrical time constant				
编码器规格	Encoder specification				
绝缘等级	Insulation class	F	F	F	F
防护等级	Class of protection	IP65	IP67	IP65	IP65
冷却方式	Cooling mode	自然冷却/Natural cooling	自然冷却/Natural cooling	自然冷却/Natural cooling	自然冷却/Natural cooling

微型交流减速电动机
 AC GEAR MOTOR



型号的阅读方法

PRODUCT NUMBER CODE

►电动机/Motor

5 - I - K - 90 - R - GU - C - F

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

①	电动机的尺寸Motor frame size	0:42mm 2:60mm 3:70mm 4:80mm 5:90mm 6:104mm
②	类型名称Motor type	
	I:感应电动机:Induction motor R: 可逆电动机Reversble motor	T:转矩电动机Torque motor
③	系列名称Series	K :K系列 K series
④	输出功率Output power(W)	(例 Example)40:40W
⑤	R:表示带调速电动机;无:表示未带The affix"-R"after the output power means speed adjustable motor	
⑥	转轴形状 Motor shaft type	
	GN: GN型齿轮轴 GN type pinion shaft	GU: GU型齿轮轴 GU type pinion shat
	A :圆轴型 Round shaft	A1:键槽型 Keyway
⑦	电源电压 · 极数 Voltage · Poles	
	A:单相Single-phase 110V50/60Hz 4P	S :三相Three-phase 200/220/230V50/60Hz 4P
	C:单相Single-phase 220/230V50Hz 4P	S3:三相Three-phase 380/400/415V50/60Hz 4P
⑧	T:带端子箱型 Terminal box type	
	F:带风扇 W/Fan	FF:带强制风扇W/Forced fan
	M:无励磁动作型电磁制动电动机 Power off activated type electromagnetic brake motor	

►减速器型号说明/Description Of Reducer Model

5 - GN - 50 - K

① ② ③ ④

①	减速器安装尺寸 Gearhead frame size	0:42mm 2:60mm 3:70mm 4:80mm 5:90mm 6:104mm
②	类型 Type of pinion	GN: GN型齿轮轴 GN type gear GU: GU型齿轮轴 GU type gear
③	减速比 Gear ratio	(例Ie.g)50:减速比 Gear ratio of 1:50
		10x仅限减速器1:10的中间减速比10x denotes the decimal gearhead of ratio 1: 10
④	轴承种类 Bearing type	K :滚珠轴承(对GU型方箱体标注为KB)Bearing(Make KB for type GU square case)

如:电机配平行轴减速器时第5项省略，如配直角减速器时第4项省略。
Note: If the motor assembly with parallel gear box pls cancel item no 5, if assembly with right angle gear box pls cancel item no 4.

微型电机

INDUCTION MOTORS

40W | □90mm

60W | □90mm

►连续额定/Continuous Rating

型号Model · 类型Type 上段：齿轮轴Upper.Pinion Shaft 下段（ ）内:圆轴 Below:Round Shaft		输出功率 Output power W	电压 Voltage V	频率 Frequency Hz	电流 Current A	启动转矩 StartingTorque mZ.m	额定转矩 Rated Torque mZ.m	额定转速 Rated Speed r/min	电容器容量 Capacitor μ F
导线型 Lead Wire type 外型图Dimensions 1	带端子箱型 Terminal Box Type 外型图Dimensions 2								
5IK40GN-C (5IK40A-C)	5IK40GN-CT (5IK40A-CT)	40	1ph 220	50	0.35	220	315	1250	2.5
5IK40GN-S (5IK40A-S)	5IK40GN-ST (5IK40A-ST)	40	3ph 220	50	0.30	800	315	1250	—
				60	0.25	660	250	1550	
5IK60GN-CF (5IK60A-CF)	5IK60GN-CFT (5IK60A-CFT)	60	1ph 220	50	0.50	340	470	1250	4.0
5IK60GN-SF (5IK60A-SF)	5IK60GN-SFT (5IK60A-SFT)	60	3ph 220	50	0.45	1000	470	1250	—
				60	0.40	800	380	1550	

►容许力矩单位/Allowance Torque Unit:(N.m)

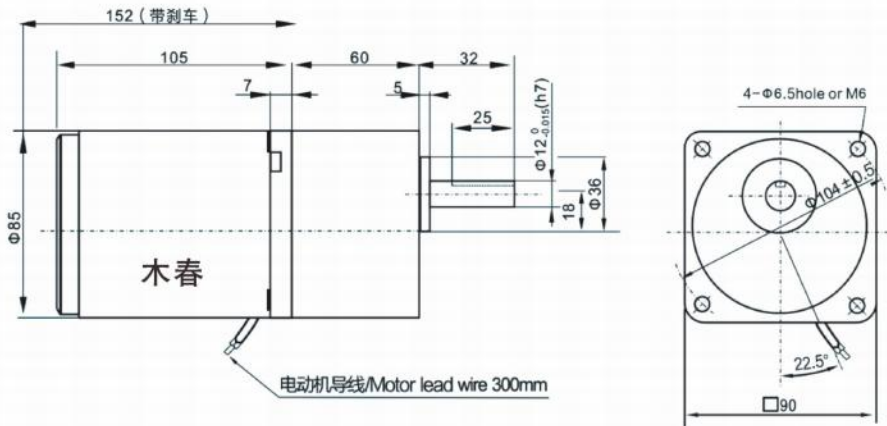
类型Type 电动机 Motor 减速机 Gearhead	减速比 Gear Ratio		3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200
	转速 Speed r/min	50Hz	500	417	300	250	200	166	150	120	100	83	75	60	50	41	37	30	25	20	16	15	12.5	10	8.3	7.5
		60Hz	500	417	300	250	200	166	150	120	100	83	75	60	50	41	37	30	25	20	16	15	12.5	10	8.3	7.5
5IK40GN-C□	5GN□K	50Hz	0.77	0.92	1.30	1.50	1.90	2.30	2.38	3.20	3.80	4.60	4.88	5.70	6.90	8.30	8.57	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
5IK40GN-S□		60Hz	0.63	0.76	1.10	1.30	1.60	1.90	2.00	2.60	3.20	3.80	4.07	4.70	5.70	6.80	7.19	8.60	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
5IK60GN-CF□	5GN□K	50Hz	1.10	1.40	1.90	2.30	2.90	3.40	3.57	4.80	5.70	6.80	7.03	8.60	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
5IK60GN-SF□		60Hz	0.92	1.10	1.50	1.80	2.30	2.80	2.99	2.80	4.60	5.50	5.70	6.90	8.30	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0

►电动机/Motor

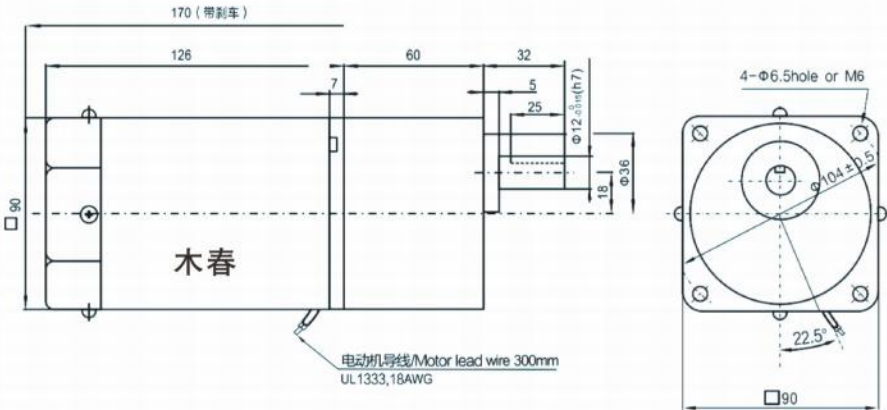
型号Model · 类型Type 导线型Lead Wire Type	额定 Rating	输出功率 Output power W	电压 Voltage V	频率 Frequency Hz	电流 Current A	启动转矩 Starting Torque mZ.m	额定转矩 Rated Torque mZ.m	额定转速 Rated Speed r/min	电容器容量 Capacitor μ F
齿轮轴型 Pinion Shaft									
5IK60GN-CFM	30min	60	1ph 220	50	0.55	420	470	1250	4.50
5IK60GN-SFM	30min	60	3ph 220	50	0.45	1000	470	1250	—
				60	0.40	800	380	1550	

外形图 (单位MM)
 DIMENSIONS(UNIT MM)

▶40W

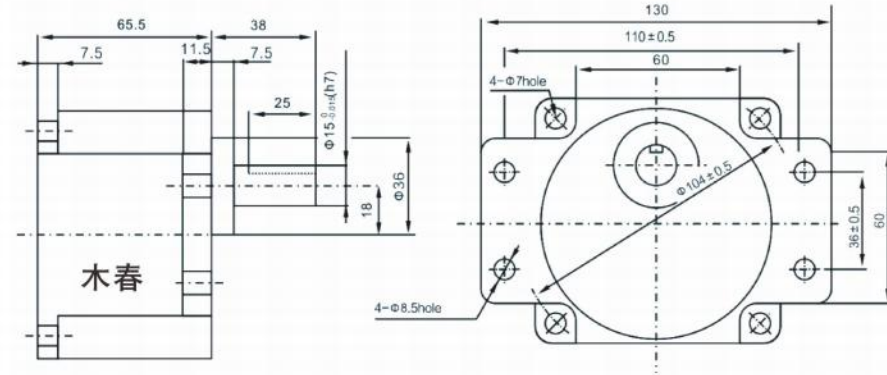


▶60W



▶60W

带耳型减速器
 Flange Mounting Reducer
 ◆可安装在GU齿轮轴型上
 Can be mounted on GU type gear shaft
 ◆5GU□K ◆重量Weight:1.5kg



微型电机
 INDUCTION MOTORS

90W | □90mm 120W | □90mm

▶连续额定/Continuous Rating

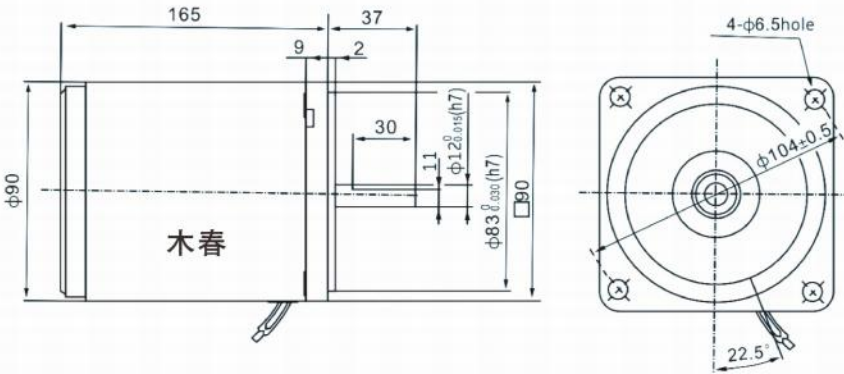
型号Model · 类型Type 上段: 齿轮轴Upper.Pinion Shaft 下段 内:圆轴 Below:Round Shaft		输出功率 Output power W	电压 Voltage V	频率 Frequency Hz	电流 Current A	启动转矩 Starting Torque mZ.m	额定转矩 Rated Torque mZ.m	额定转速 Rated Speed r/min	电容器容量 Capacitor μ F
导线型 Lead Wire type 外型图Dimensions①	带端子箱型 Terminal Box Type 外型图Dimensions②								
5IK90GU-CF (5IK90A-CF)	5IK90GU-CFT (5IK90A-CFT)	90	1ph 220	50	0.72	450	570	1250	5.0
5IK90GU-SF (5IK90A-SF)	5IK90GU-SFT (5IK90A-SFT)	90	3ph 220	50	0.60	1350	700	1250	—
				60	0.55	1100	570	1550	
5IK120GU-CF (5IK120A-CF)	5IK120GU-CFT (5IK120A-CFT)	120	1ph 220	50	1.00	600	750	1550	7.0
5IK120GU-SF (5IK120A-SF)	5IK120GU-SFT (5IK120A-SFT)	120	3ph 220	50	0.70	1850	930	1250	—
				60	0.60	1600	750	1550	

▶容许力矩单位/Allowance Torque Unit:(N.m)

类型Type 电动机 Motor 减速机 Gearhead	减速比 Gear Ratio		3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200	
	转速 Speed r/min	50Hz	500	417	300	250	200	166	150	120	100	83	75	60	50	41	37	30	25	20	16	15	12.5	10	8.3	7.5	
		60Hz																									
5IK90GU-CF□	5GU□KB 5GU□K	50Hz	1.10	2.00	2.80	3.40	4.30	5.10	5.31	6.40	7.70	9.20	9.55	11.6	13.6	16.6	18.1	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
5IK90GU-SF□		60Hz	1.40	1.70	2.30	2.80	3.50	4.20	4.43	5.20	6.20	7.50	7.81	9.40	11.3	13.5	14.5	18.8	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
5IK120GU-CF□	5GU□KB 5GU□K	50Hz	2.30	2.70	3.80	4.50	5.60	6.80	7.01	8.50	10.2	12.2	12.5	15.3	18.4	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
5IK120GU-SF□		60Hz	1.80	2.20	3.00	3.60	4.60	5.50	5.73	6.80	8.20	9.80	10.1	12.4	14.9	17.8	19.5	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0

▶90W

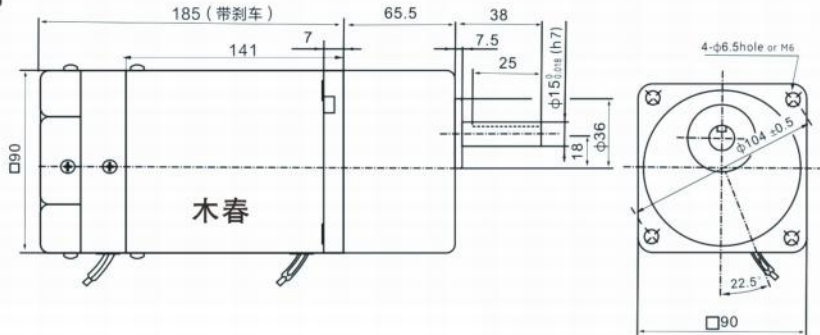
◆光轴电动机 Motor
 5IK90A-C、5IK90A-CM
 重量Weight:2.5kg



外形图 (单位MM)
 DIMENSIONS(UNIT MM)

▶90W

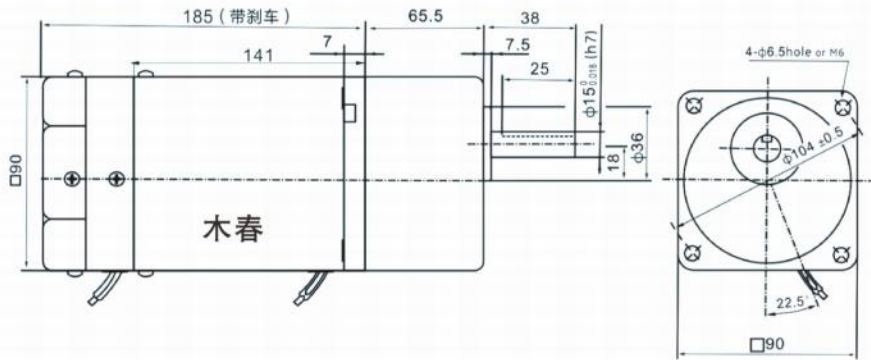
◆导线型 Lead Wiring Type
 重量Weight:电动机 Motor:4.3kg
 减速器 Gearhead:1.5kg



减速器附有安装用螺丝/Mounting screws are included with gearhead

▶120W

◆导线型 Lead Wiring Type
 重量Weight:电动机 Motor:4.3kg
 减速器 Gearhead:1.5kg

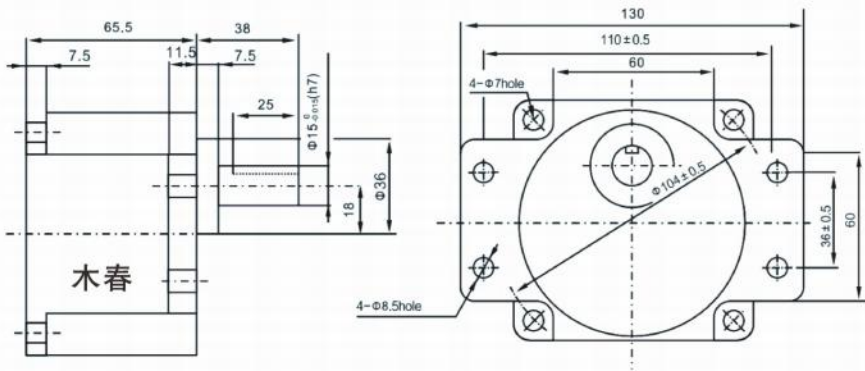


减速器附有安装用螺丝/Mounting screws are included with gearhead

▶90W

带耳型减速器
 Flange Mounting Reducer

◆可安装在GU齿轮轴型上 ◆5GU□K ◆重量Weight:1.5kg
 Can be mounted on GU type gear shaft



微型电机
 INDUCTION MOTORS

150W | □104mm 200W | □104mm 250W | □104mm

▶连续额定/Continuous Rating

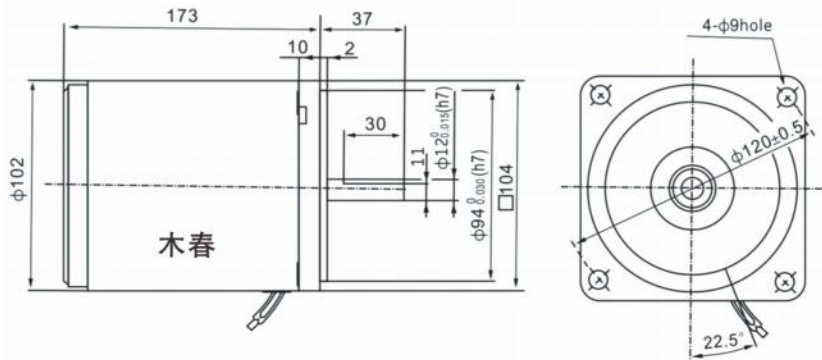
型号Model · 类型Type 上段: 齿轮轴Upper.Pinion Shaft 下段 () 内:圆轴 Below:Round Shaft		输出功率 Output power W	电压 Voltage V	频率 Frequency Hz	电流 Current A	启动转矩 Starting Torque mZ.m	额定转矩 Rated Torque mZ.m	额定转速 Rated Speed r/min	电容器容量 Capacitor μ F
导线型 Lead Wire type 外型图Dimensions	带端子箱型 Terminal Box Type 外型图Dimensions								
6IK150GU-CF (6IK150A-CF)	6IK150GU-CFT (6IK150A-CFT)	150	1ph 220	50	1.05	850	1040	1350	10
6IK150GU-SF (6IK150A-SF)	6IK150GU-SFT (6IK150A-SFT)	150	3ph 220	50	0.85	2700	1080	1250	-
				60	0.75	2200	870	1550	-
6IK200GU-CF (6IK200A-CF)	6IK200GU-CFT (6IK200A-CFT)	200	1ph 220	50	1.40	1000	1520	1250	10
6IK200GU-SF (6IK200A-SF)	6IK200GU-SFT (6IK200A-SFT)	200	3ph 220	50	1.20	3400	1520	1250	-
				60	1.00	2700	1230	1550	-

▶容许力矩单位/Allowance Torque Unit:(N.m)

类型Type 电动机 Motor 减速机 Gearhead	减速比 Gear Ratio		3	3.6	5	6	7.5	9	10	12.5	15	18	20	25	30	36	40	50	60	75	90	100	120	150	180	200
	转速 Speed/r/min	50Hz	500	417	300	250	200	166	150	120	100	83	75	60	50	41	37	30	25	20	16	15	12.5	10	8.3	7.5
		60Hz	600	500	360	300	240	200	180	144	120	100	90	72	60	50	45	36	30	24	20	18	15	12	10	9
6IK150GU-CF□	6GU□K	50Hz	2.60	3.10	4.40	5.20	6.60	7.90	7.80	9.90	11.8	14.2	14.0	17.8	21.4	25.7	28.0	35.6	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
			2.50	3.00	4.20	5.10	6.30	7.60	7.20	9.50	11.4	13.7	13.0	17.2	20.6	24.7	26.0	34.3	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
6IK150GU-SF□	6GU□K	60Hz	2.10	2.50	3.50	4.20	5.30	6.30	6.30	7.90	9.50	11.4	11.3	14.4	17.2	20.7	22.6	28.7	34.5	40.0	40.0	40.0	40.0	40.0	40.0	40.0
			2.10	2.50	3.40	4.10	5.20	6.20	6.10	7.80	9.30	11.2	11.0	12.0	16.8	20.2	22.0	28.0	33.7	40.0	40.0	40.0	40.0	40.0	40.0	40.0
6IK200GU-CF□ 6IK200GU-SF□	6GU□K	50Hz	3.71	4.46	6.19	7.43	9.28	11.1	11.9	13.9	16.7	20.1	20.8	25.2	30.3	36.3	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
		60Hz	2.99	3.59	4.99	5.99	7.49	8.98	9.70	11.2	13.5	16.2	17.2	20.3	24.4	29.3	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
6IK250GU-CF□ 6IK250GU-SF□	6GU□K	50Hz	3.71	4.46	6.19	7.43	9.28	11.1	11.9	13.9	16.7	20.1	20.8	25.2	30.3	36.3	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
		60Hz	2.99	3.59	4.99	5.99	7.49	8.98	9.70	11.2	13.5	16.2	17.2	20.3	24.4	29.3	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0

▶200W

◆光轴电动机Motor
 6IK200A-C、6IK200A-CM
 重量 Weight:3.5kg

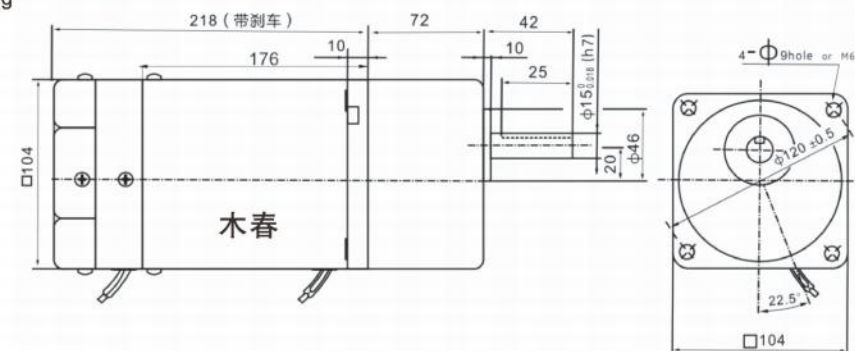


外形图 (单位MM)

DIMENSIONS(UNIT MM)

►150W

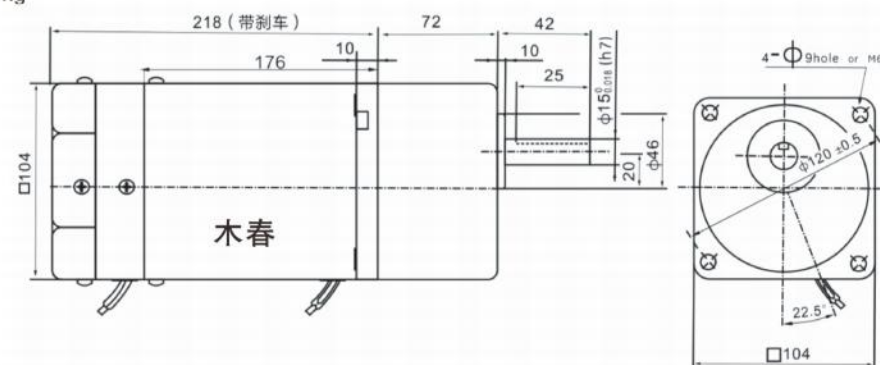
- ◆导线型 Lead Wiring Type
- 重量Weight:电动机Motor:4.3kg
- 减速器Gearhead:1.5kg



减速器附有安装用螺丝/Mounting screws are included with gearhead

►200W

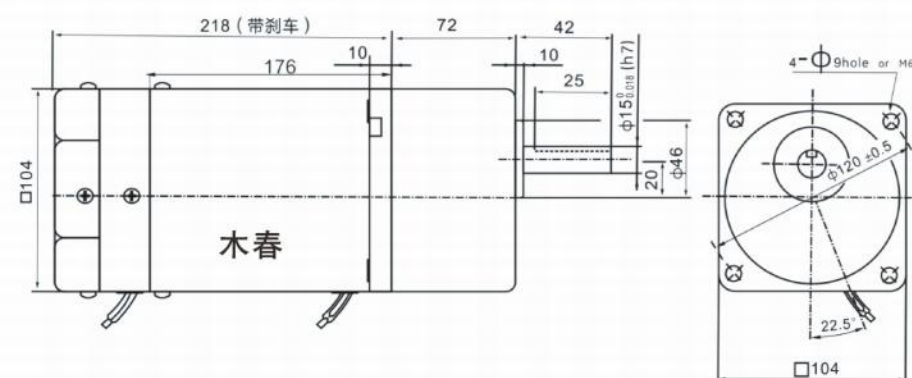
- ◆导线型 Lead Wiring Type
- 重量Weight:电动机Motor:4.3kg
- 减速器Gearhead:1.5kg



减速器附有安装用螺丝/Mounting screws are included with gearhead

►250W

- ◆导线型 Lead Wiring Type
- 重量Weight:电动机Motor:4.3kg
- 减速器Gearhead:1.5kg



减速器附有安装用螺丝/Mounting screws are included with gearhead

弧锥直角电动机 AC GEAR MOTOR



高刚性
HIGH RIGIDITY



高耐用
HIGH DURABILITY



高效率
HIGH EFFICIENCY



弧锥直角
 SPIRAL BEVEL RIGHT ANGLE

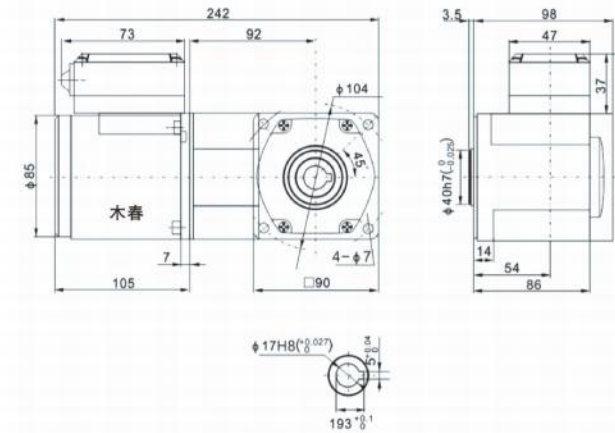
40W | □90mm
 60W | □90mm

▶容许力矩单位/Allowance Torque Unit:(N.m)

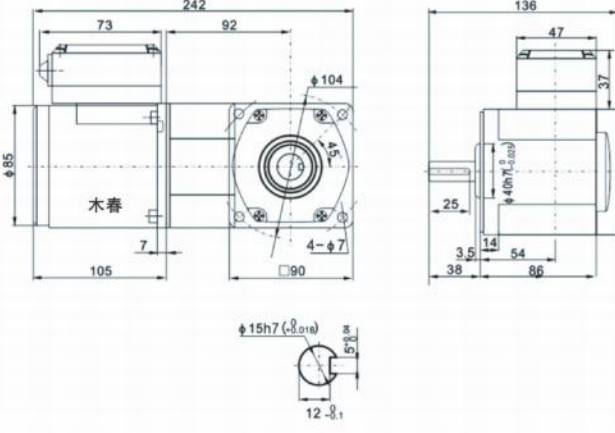
类型Type 电动机 Motor 减速机 Gearhead	减速比 Gear Ratio		7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180	200
	转速 Speed r/min	50Hz	200	166	120	100	83	60	50	41	30	25	20	16	15	12.5	10	8.3	7.5
		60Hz	200	166	120	100	83	60	50	41	30	25	20	16	15	12.5	10	8.3	7.5
5IK40GU-C□	5GU□RC	50Hz	1.90	2.30	3.20	3.80	4.60	5.70	6.90	8.30	10.0	11.4	14.2	17	19	20	20	20	20
5IK40GU-S□	5GU□RT	60Hz	1.60	1.90	2.60	3.20	3.80	4.70	5.70	6.80	8.60	9.2	11.5	13.7	15.3	18	20	20	20
5IK60GU-CF□	5GU□RC	50Hz	2.90	3.40	4.80	5.70	6.80	8.60	9.5	10.0	14.2	17	20	20	20	20	20	20	20
5IK60GU-SF□	5GU□RT	60Hz	2.30	2.80	3.80	4.60	5.50	6.90	7.8	8.3	11.5	13.7	17.2	20	20	20	20	20	20

▶电机尺寸图/Motor Size chart

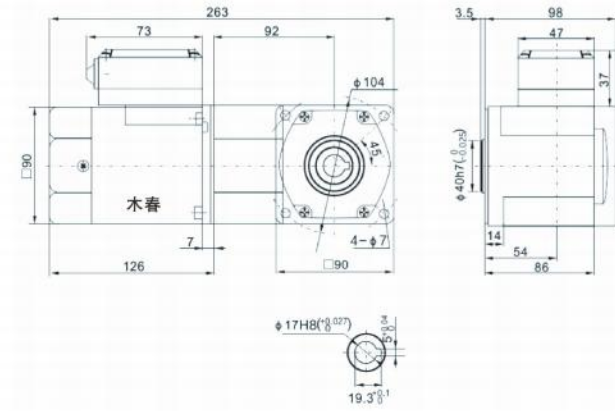
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 5IK40GU-S□/5GU□RC



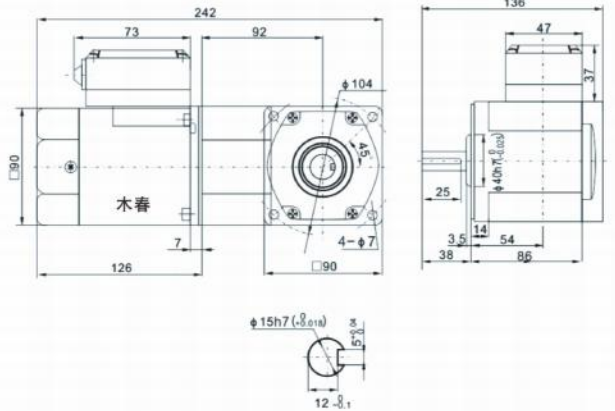
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 5IK40GU-S□/5GU□RT



5IK60GU-AF□/5GU□RC 5IK60GU-CF□/5GU□RC
 5IK60GU-SF□/5GU□RC



5IK60GU-AF□/5GU□RT 5IK60GU-CF□/5GU□RT
 5IK60GU-SF□/5GU□RT



弧锥直角
 SPIRAL BEVEL RIGHT ANGLE

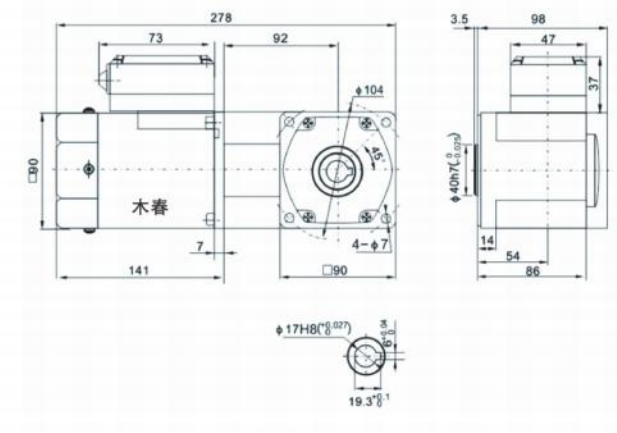
90W | □90mm
 120W | □90mm

▶容许力矩单位/Allowance Torque Unit:(N.m)

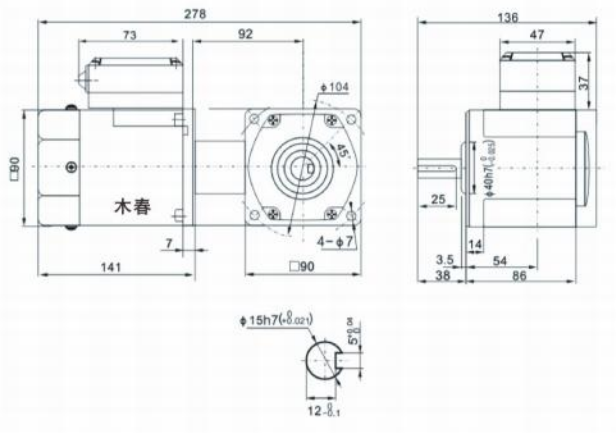
类型Type 电动机 Motor 减速机 Gearhead	减速比 Gear Ratio		7.5	9	12.5	15	18	25	30	36	40	50	60	75	90	100	120	150	180	200
	转速 Speed r/min	50Hz	200	166	120	100	83	60	50	41	37	30	25	20	16	15	12.5	10	8.3	7.5
		60Hz	200	166	120	100	83	60	50	41	37	30	25	20	16	15	12.5	10	8.3	7.5
5IK90GU-CF□	5GU□RC	50Hz	4.30	5.10	6.40	7.70	9.20	11.6	13.6	16.6	18.1	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
5IK90GU-SF□	5GU□RT	60Hz	3.50	4.20	5.20	6.20	7.50	9.40	11.3	13.5	14.5	18.8	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
5IK120GU-CF□	5GU□RC	50Hz	5.60	6.80	8.50	10.2	12.2	15.3	18.4	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
5IK120GU-SF□	5GU□RT	60Hz	4.60	5.50	6.80	8.20	9.80	12.4	14.9	17.8	19.5	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0

▶电机尺寸图/Motor Size chart

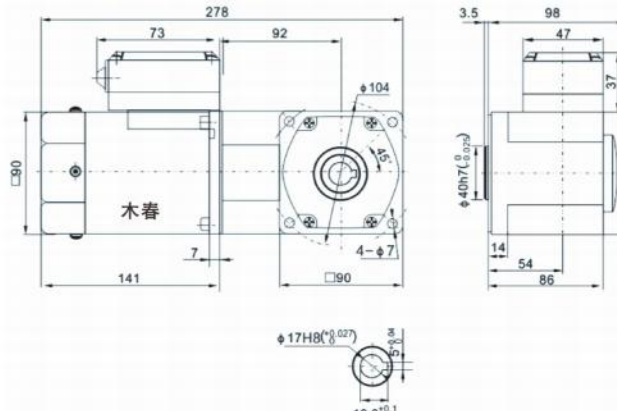
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 5IK90GU-SF□/5GU□RC



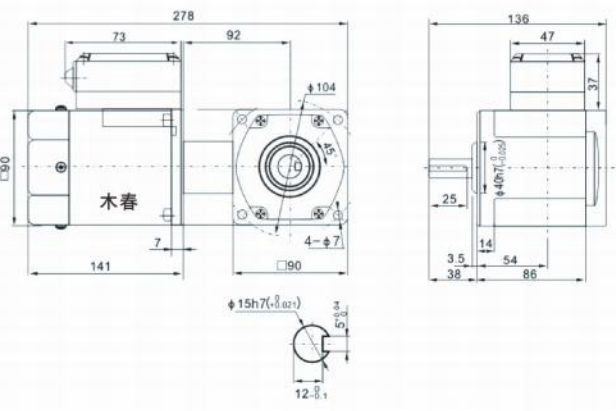
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 5IK90GU-SF□/5GU□RT



5IK120GU-AF□/5GU□RC 5IK120GU-CF□/5GU□RC
 5IK120GU-SF□/5GU□RC



5IK120GU-AF□/5GU□RT 5IK120GU-CF□/5GU□RT
 5IK120GU-SF□/5GU□RT



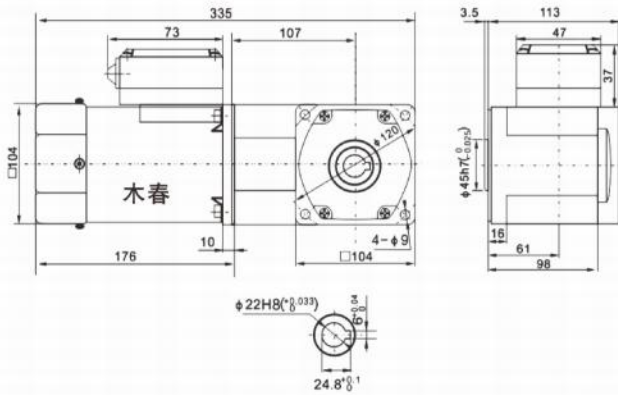
弧锥直角 SPIRAL BEVEL RIGHT ANGLE
 150W | □104mm 200W | □104mm 250W | □104mm

▶容许力矩单位/Allowance Torque Unit:(N.m)

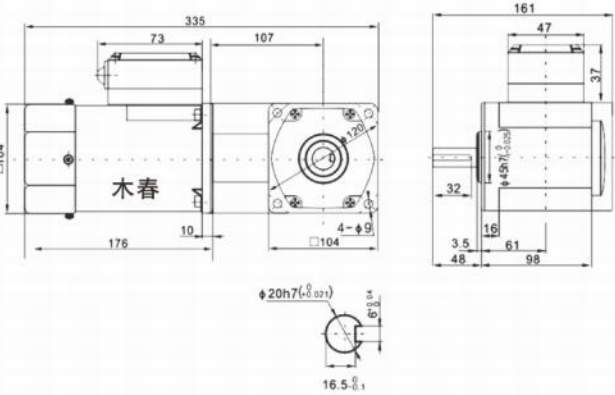
类型Type 电动机 Motor 减速机 Gearhead	减速比 Gear Ratio		7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180	200
	转速 Speed r/min	50Hz	200	166	120	100	83	60	50	41	30	25	20	16	15	12.5	10	8.3	7.5
		60Hz	240	200	144	120	100	72	60	50	36	30	24	20	18	15	12	10	9
6IK150GU-CF□ 6IK150GU-SF□	6GU□RC 6GU□RT	50/60Hz	5.30	6.30	9.20	11.0	13.0	18.0	22.0	26.0	33.0	40.0	49.7	59.6	60.0	60.0	60.0	60.0	60.0
			5.20	6.20	7.80	9.30	11.2	15.0	18.0	22.0	27.0	32.0	40.0	48.0	53.0	60.0	60.0	60.0	60.0
6IK200GU-CF□ 6IK200GU-SF□	6GU□RC 6GU□RT	50Hz	9.28	11.1	13.9	16.7	20.1	25.2	30.3	36.3	50.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
		60Hz	7.49	8.98	11.2	13.5	16.2	20.3	24.4	29.3	41.0	49.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
6IK250GU-SF□ 6IK250GU-SF□	6GU□RC 6GU□RT	50Hz	10.7	12.6	16.0	19.2	23.0	28.8	34.8	41.7	57.5	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
		60Hz	8.60	10.3	12.9	15.5	18.6	23.3	28.0	33.7	47.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0

▶电机尺寸图/Motor Size chart

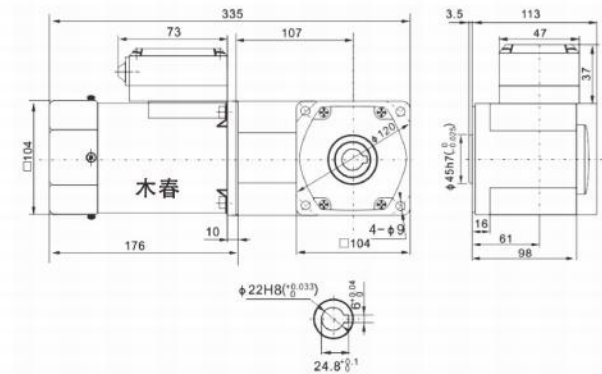
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 6IK150GU-SF□/6GU□RC



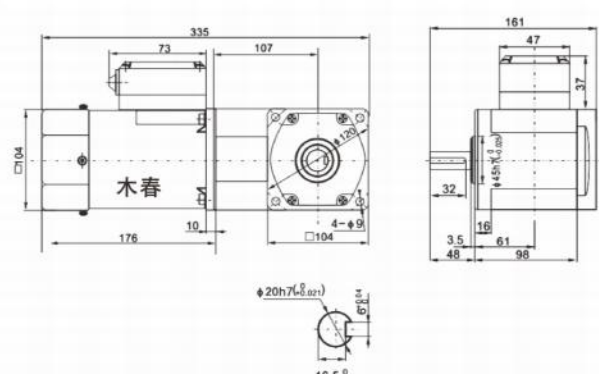
6IK150GU-AF□/6GU□RT 6IK150GU-CF□/6GU□RT
 6IK150GU-SF□/6GU□RT



6IK200GU-AF□/6GU□RC 6IK250GU-AF□/6GU□RC
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 6IK200GU-SF□/6GU□RC 6IK250GU-SF□/6GU□RC

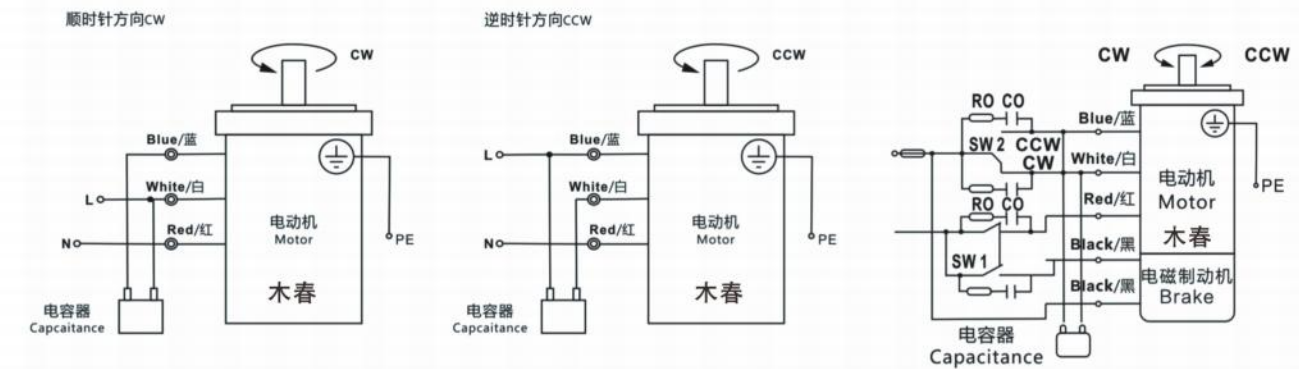


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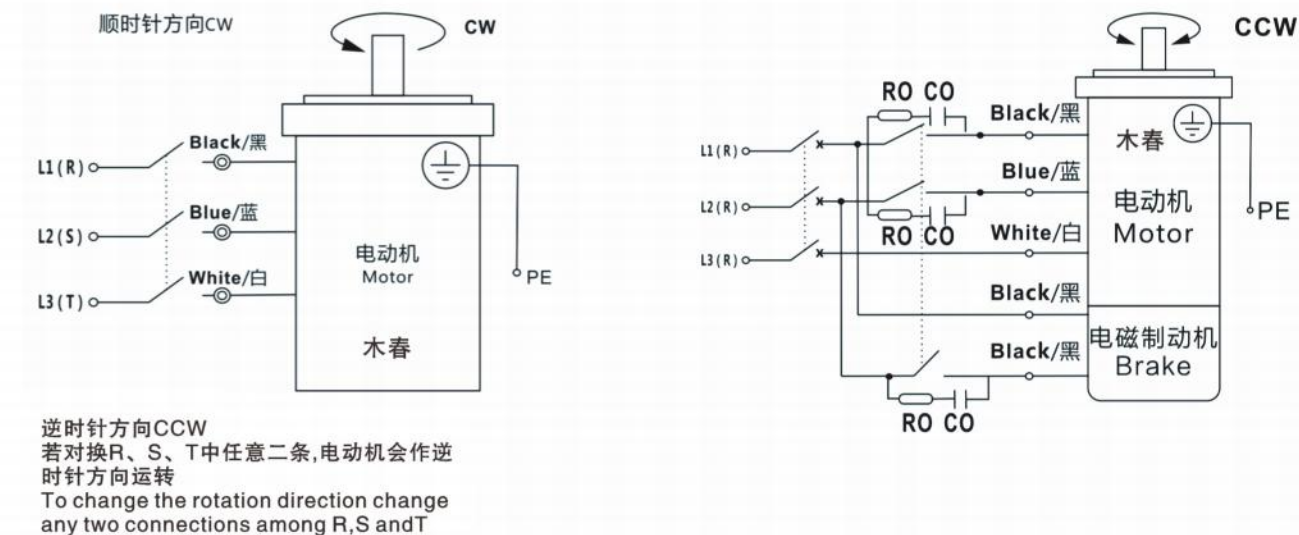


连接图 WIRING DIAGRAM

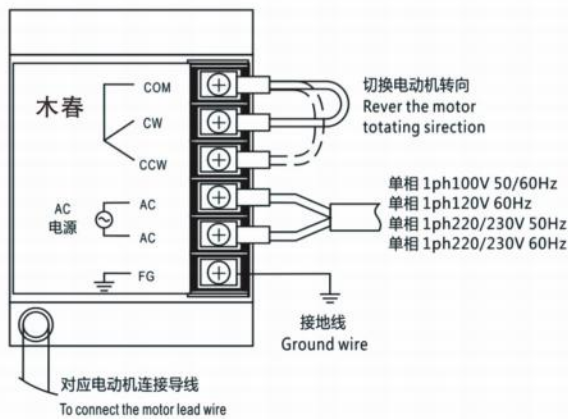
▶单相接法/Single phase connection



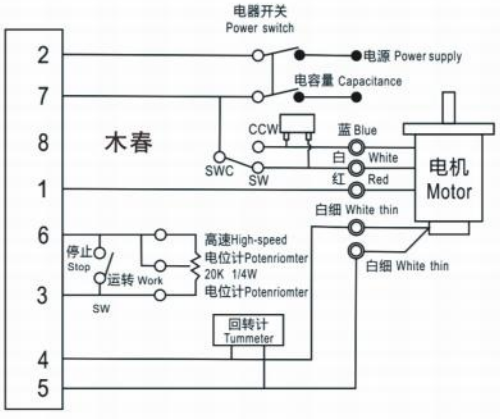
▶三相接法/Three phase connection



US型/US Type调速器



SS型/SS Type



中型交流减速电动机

AC GEAR MOTOR



中型交流减速电机型号说明方法

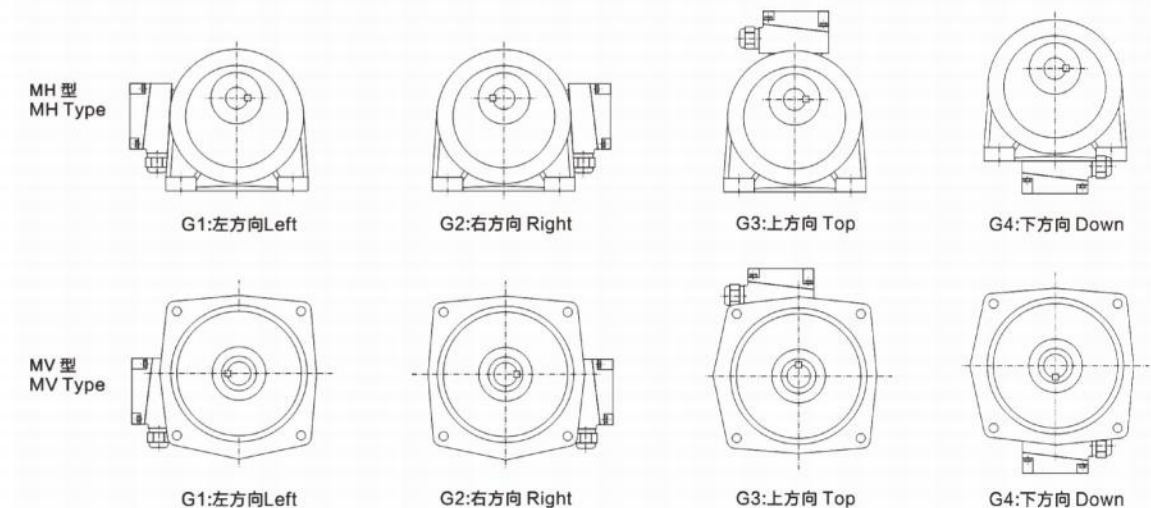
TYPE AND MOTOR MODEL

► 减速电机型号说明/Description Of Motor Model

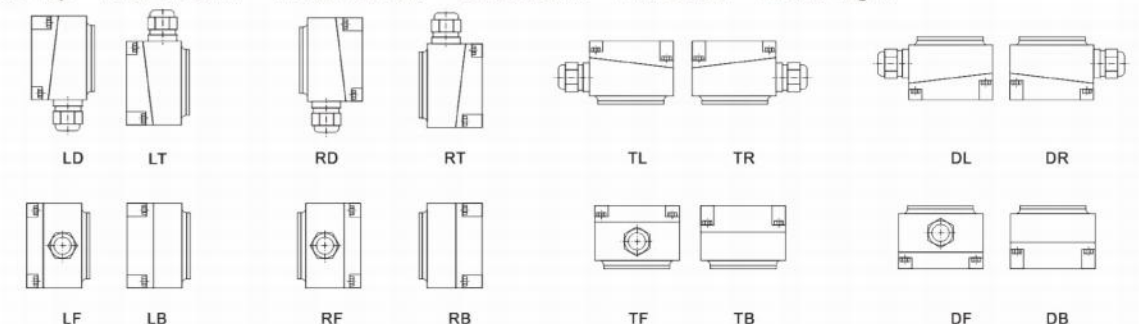
M100-H-01-50-S-B-F-G1-LD

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

- ① M木春品牌代号, 输出功率Output:100W,200W,400W,750W,1100W,1500W,2200W,3000W,3700W,5.5KW,7.5KW
- ② 箱体结构基本代号Basic structure;MH(卧式Horizontal), MV(立式Vertical)
- ③ 01=18,02=22,03=28,04=32,05=40,06=50,07=60
- ④ 齿轮箱的减速比Gear ratio:3,5,10...1800
- ⑤ 电机输入电压
S:三相电机 3-Phase motor,220-240/380-415V,50/60Hz
C:单相电机 1-Phase motor,220V,50/60Hz
A:单相电机 1-Phase motor,110V,50/60Hz
- ⑥ 刹车器Brake unit
B:DC断电刹车器 Brake unit(另配交变直快速整流器 With quick rectifier from AC to DC)
YB:手持放刹车器 Manual brake unit
- ⑦ F2:220V轴流风机, F3:380V轴流风机, F2:220V axial fan,F3:380V axial fan
- ⑧ 出轴端看接线盒方位 (如图示) Terminal box direction from output shaft(As shown)
G1:左方向Left G2:右方向Right G3:上方向Top G4:下方向Down

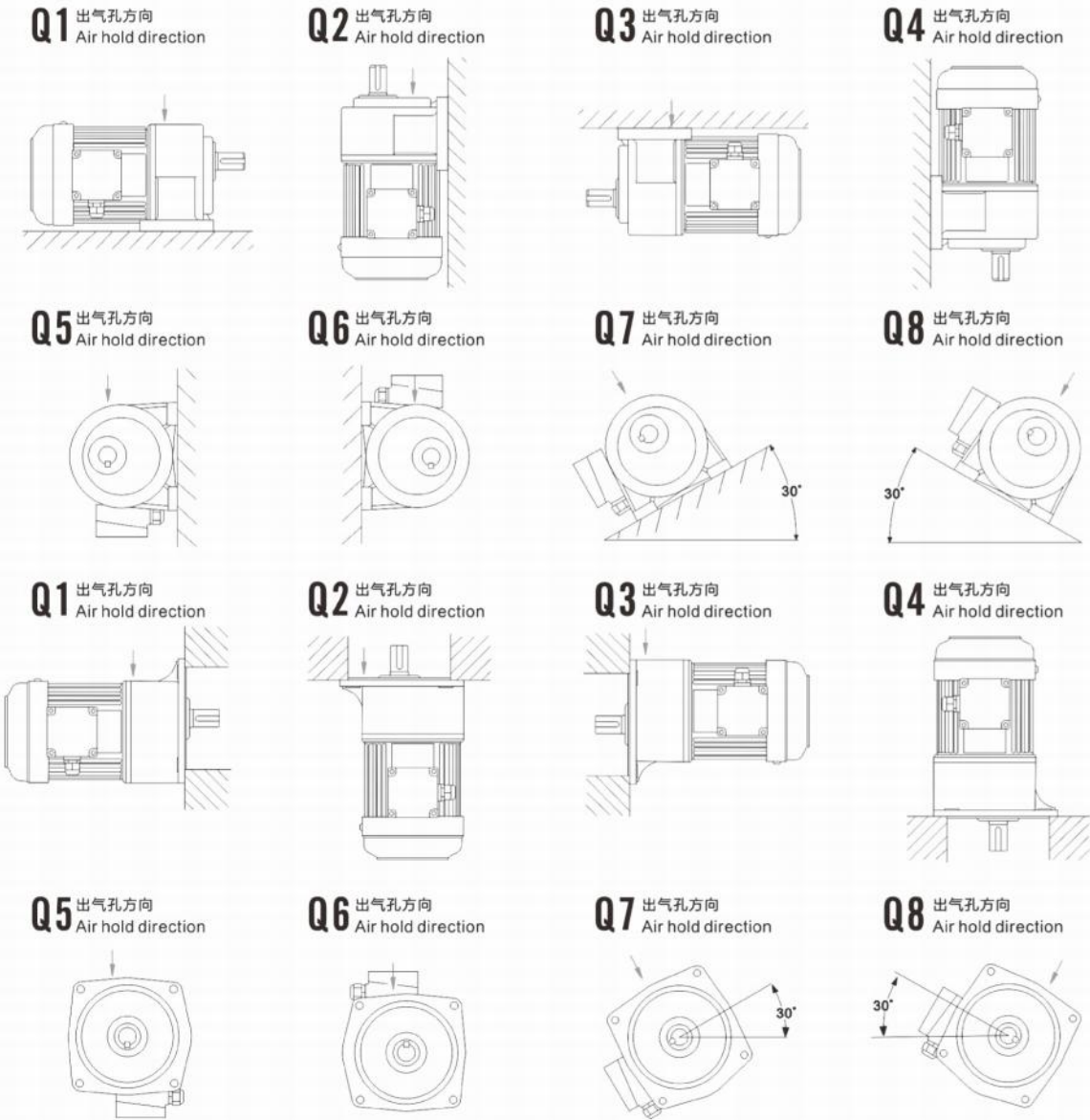


- ⑨ 出轴端看引出线方位(如图示)Lead direction from output shaft(As shown)
T:向上 Top D:向下 Down F:向前 Forward B:向后 Back L:向左 Left R:向右 Right



中型交流减速电机型号说明方法
 TYPE AND MOTOR MODEL

⑩ 出厂标准安装形式：Standrad installaion method
 本公司出厂所有减速器适用如图安装形式
 All of company's reducer can be applied to the following kinds of installation method
 图中Q1、Q4、Q7、Q8中注油孔方向为标准型
 In the diagram,Q1、Q4、Q7、Q8 are our standard types of oil hole direction
 注油孔在特殊位置的，请特别告知，本公司将修改出气孔位置
 Pls inform us if the location of oil hole is special, we will modify it
 实际使用时，建议将注油孔中的堵油销拔出，以平衡减速箱内的压力
 Pls pull out the pin of the oil plug to reduce the pressure in the gearbox during running



备注：
 订购变频电机时，请说明变频范围，减速电机的使用环境工作方式等。
 带刹车减速电机总长度需增加10mm。
 Note: For motors supplied by transducer please tell us detailed working modes and working ambient.
 The total length of brake motors will be 10mm longer than standard motors.

技术资料
 TECHNICAL DATA

▶ 电机基本规范/Motor Specification

项目 Item	三相电机 3-Phase Motor	单相电机 1-Phase Motor
防护等级 Protection	铝合金壳接线盒为IP54,铁壳接线盒为IP20 IP54 with alum alloy terminal box,and other is IP20	
外壳材质 Frame material	100W~3700W机壳为铝合金, 1#, 2#, 3#, 4#齿轮箱为铝合金, 5#, 6#齿轮箱为铸铁 Alum alloy for 100W~3700W frame,alum alloy for 1#,2#,3#, 4# gear case,5#,6# cast iron for others	
工作方式 Duty	连续运转/Continuous running S1工作制 Duty:S1	
绝缘等级 INS.class	B级(F级) 可选/Optional 常规B级(F级可选)Regular class B(Class F can choose)	
适用环境 Environment	温度/Temp:-10℃~+40℃ 湿度/Humidity:≤90%	
使用电压 Voltage	220-240/380-415V,50/60Hz	110V/50/60Hz,220V/50/60Hz
极数 Pole	4P(6P)	4P
海拔 Height	≤1000m	
启动方式 Starting	全压启动 Full pressure starting	0.1-0.2Kw单电容启动 Capacitor 0.4-1.5Kw双电容启动 Double capacitors
依据标准 Standard	GB/T12350-2009	

▶ 单相电机配套电容值，电容运转形式/Capacitor For 1-phase Motor,C-running Type

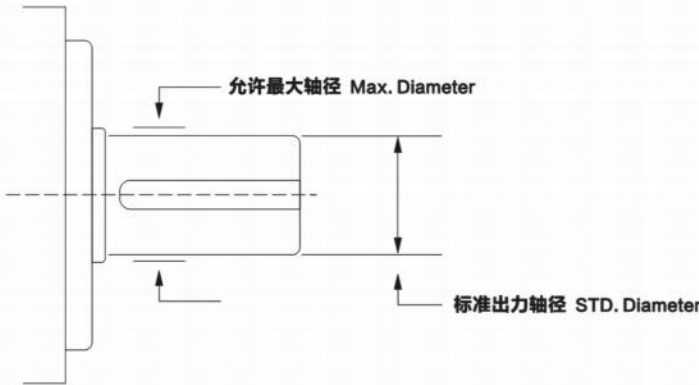
输出功率 Output Power	运转电容 Running Capacitor	启动电容 Starting Capacitor	运转电容+启动电容(离心开关) Running+Starting Capacitor (Ceutrifugal Switch)
100W,1/8HP	8 μ F/450V	/	/
200W,1/4HP	12 μ F/450V	/	/
400W,1/2HF	/	/	15 μ F/450V+75 μ F/250V
750W,1HP	/	/	20 μ F/450V+150 μ F/250V
1500W,2HP	/	/	40 μ F/450V+200 μ F/250V

▶ 刹车性能说明/Function For Brake Unit

输出功率 Output Power	允许最高转速 Premit Max Rpm	刹车制动力 Torque (kg.m)	刹车间隙 Clearance(mm)	重量 Weight (kg)
1/8HP4P-1/4HP4P (100W-200W)	1700	0.15-0.4	0.3-0.5	2.0
1/2HP4P-1HP4P (400W-750W)	1700	0.25-0.7	0.4-0.6	4.3
2HP4P-3HP4P (1500W-2200W)	1700	0.92-2.0	0.5-0.7	6.3
4HP4P-5HP4P (3000W-3700W)	1700	1.80-3.5	0.6-0.8	7.0

技术资料
 TECHNICAL DATA

▶ 输出轴允许最大轴径/Available Max Output Shaft Diameter



齿轮箱型号 Gear Box	标准出轴直径 Atanddre Output Shaft Dia	最大允许直径 Max Availablet Shaft Dia	输出端轴承 Output Eed Bearing
1#	Φ 18	Φ 20	6004
2#	Φ 22	Φ 25	6205
3#	Φ 28	Φ 30	6206
4#	Φ 32	Φ 35	6207
5#	Φ 40	Φ 45	6209
6#	Φ 50	Φ 55	6211

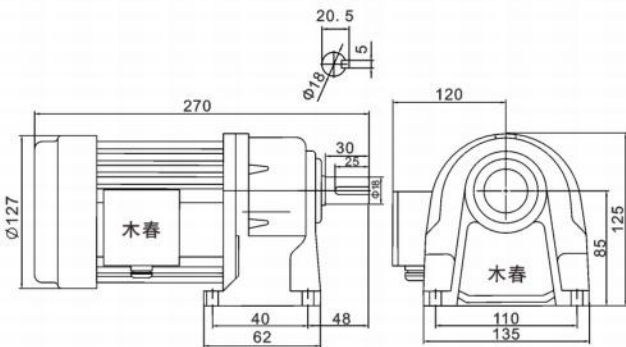
▶ 减速电机各零件部分大致说明/Main Parts Notes

部件名称/Parts Name	说明 /Notes
箱体/Gearbox	1#、2#、3#、4#箱体出轴直径为18、22、28、32，箱体采用铝合金，5#、6#箱体主轴直径为40、50，箱体采用铸铁。 The output shaft diameter of gearbox 1#、2#、3#、4#are18、22、28、32 separately.The material of gearbox is Al.alloy. 5#、6#are 40、50respectively.Gearbox is made of cast iron.
齿轮片/Gear piece	齿轮材料为40Cr,调质HB280，高精度滚齿，齿部高频淬火HRC50，齿面磨齿，齿轮精度6级。 The material 40Cr mixes to HB280, then dealt with high frequency quencher HRC50. Gear should be processed by milling with high precision.The class is 6.
齿轮轴/Gear shaft	齿轮材料为20CrMnTi,高精度滚齿，渗碳淬火HRC60,齿面二次刮削，精度6级。 The material 20CrMnTi will be into HRC60 through processing of cementite quencher. Gear shaft will be processed with gear hobbing.precision;class is 6.
电机轴/Motor shaft	齿轮材料为20CrMnTi,高精度滚齿，渗碳淬火HRC60，齿面二次刮削，精度6级。 The material 20CrMnTi will be changed into HRC60 through processing of cementite quencher. Gear shaft will be processed with gear hobbing.Precision class is 6.
轴承/Ball bearing	电机部分轴承采用高精度等级精密轴承，以确保长期运转寿命。 We adopt tight bearing with high precision,to make sure longterm running life.
油封/Oil seal	电机轴以耐高温油封为主，可有效防止油脂渗漏。 Gear shaft gives priority to enduring high temp,avoiding oil infiltration.
接线盒/Terminal box	有两种:一种是铝合金接线盒，有较好的防水及防尘性能，防护等级为IP54。 另外一种铁壳的接线盒，结构轻巧，防护等级IP20。 Two type.One is Al alloy,which equipes good capability of waterproof and dustproof.Protection grade is IP54. The other is steel case with deft structure.Protection grade is IP20.

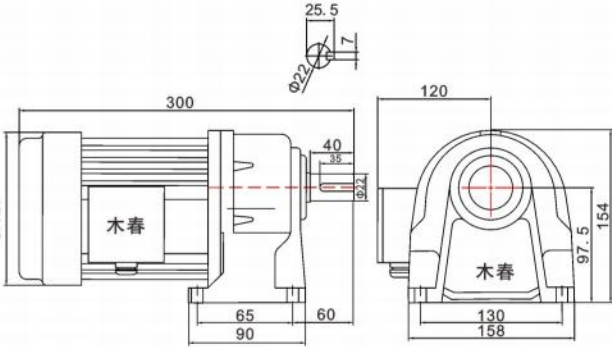
0.1KW/0.2KW
 卧式/HORIZONTAL
 单相/三相/1-PHASE/3-PHASE

▶ 外形尺寸(单位mm)/Shape Size(mm)

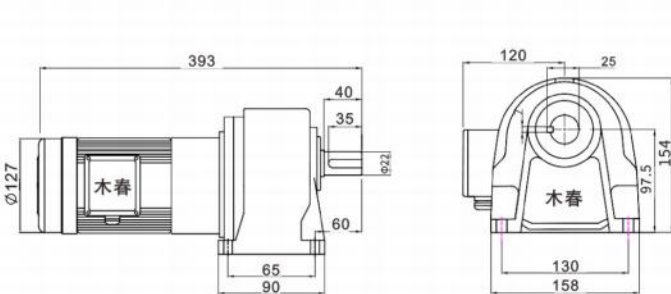
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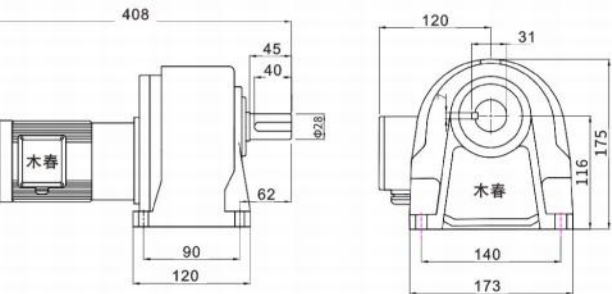
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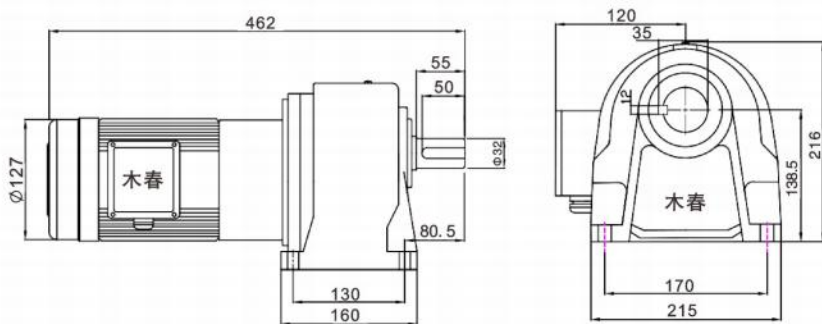
型号/Model number M100/200-H02-(210~25000)高比数



型号/Model number M100/200-H03-(210~25000)高比数



型号/Model number M100/200-H04-(210~20000)高比数

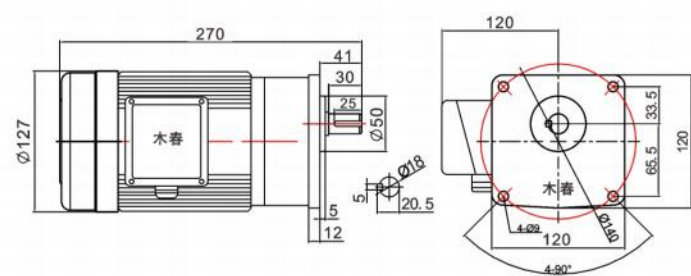


注明:带*型号为非标准型号
 Note: Models with * are non-standard models

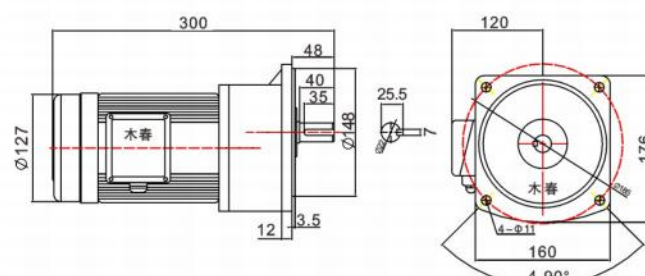
0.1KW/0.2KW 立式/VERTICAL 单相/三相/1-PHASE/3-PHASE

► 外形尺寸(单位mm)/Shape Size(mm)

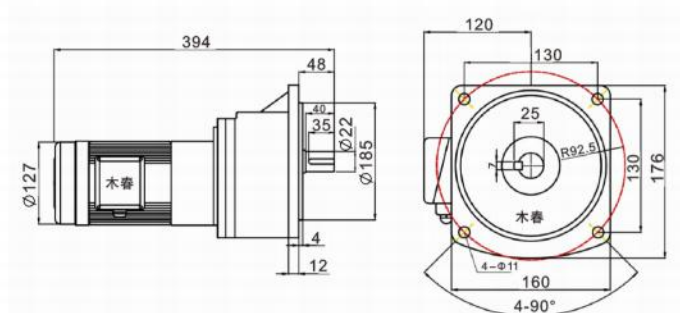
型号/Model number M100/200-V01-(3~200)SB



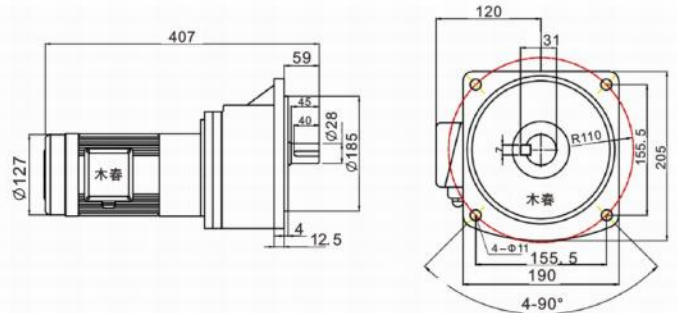
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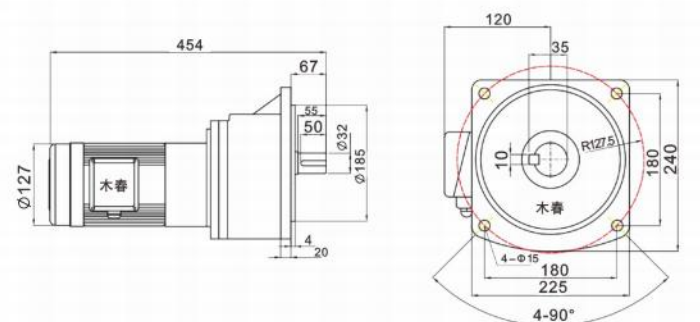
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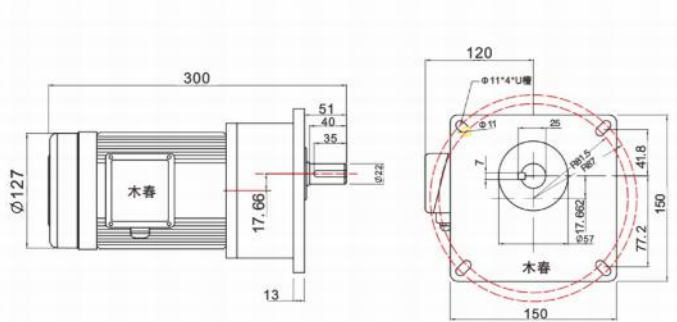
型号/Model number M100/200-V03-(210~25000)高比数



型号/Model number M100/200-V04-(210~20000)高比数



*型号/Model number M100/200-TV02-(60~200)偏心轴



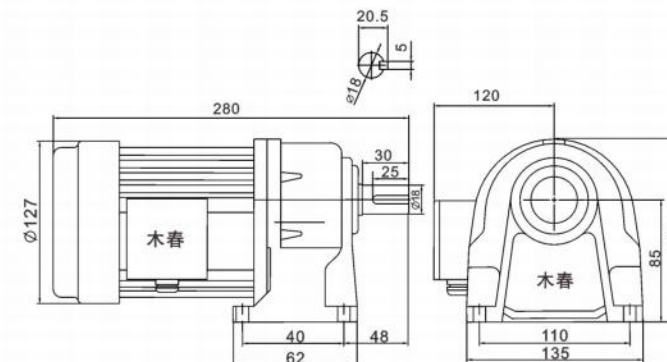
注明:带*型号为非标准型号
Note: Models with * are non-standard models

0.4KW 卧式/HORIZONTAL 单相/三相/1-PHASE/3-PHASE

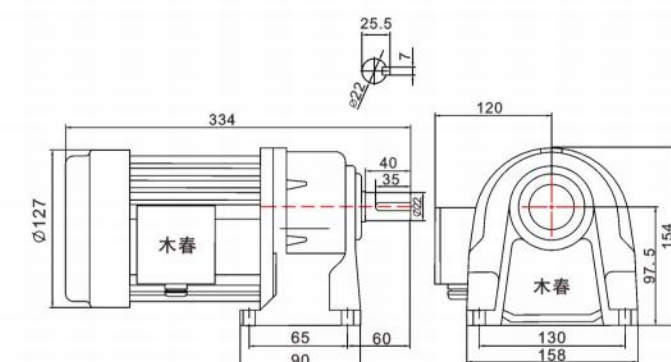


► 外形尺寸(单位mm)/Shape Size(mm)

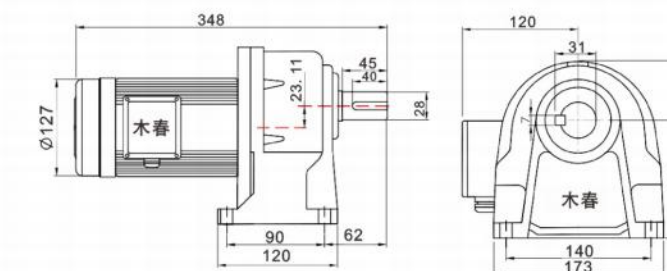
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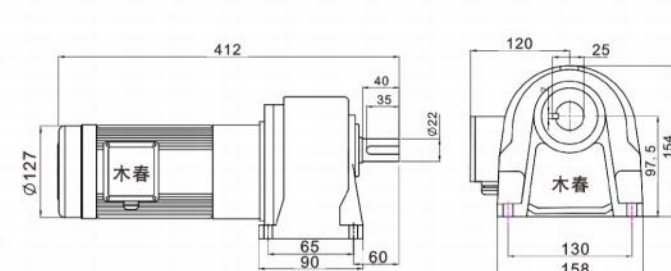
型号/Model number M400-H02-(3~90)



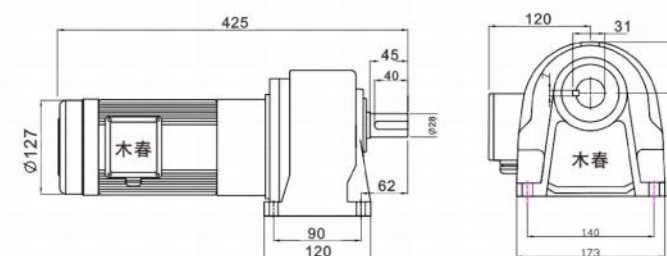
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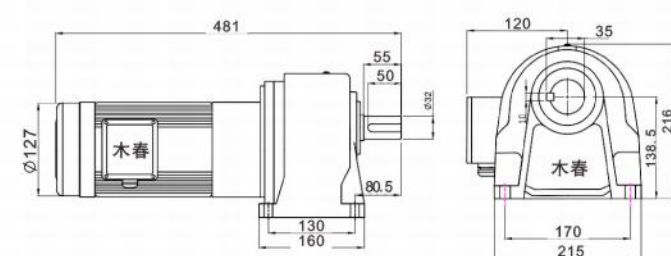
型号/Model number M400-H02-(210~25000)高比数



型号/Model number M400-H03-(210~25000)高比数



型号/Model number M400-H04-(210~20000)高比数



注明:带*型号为非标准型号
Note: Models with * are non-standard models

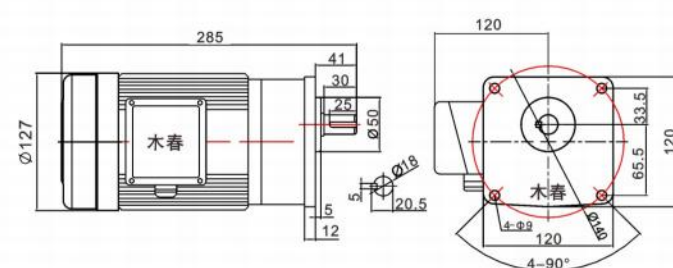
0.4KW

立式/VERTICAL
单相/三相/1-PHASE/3-PHASE

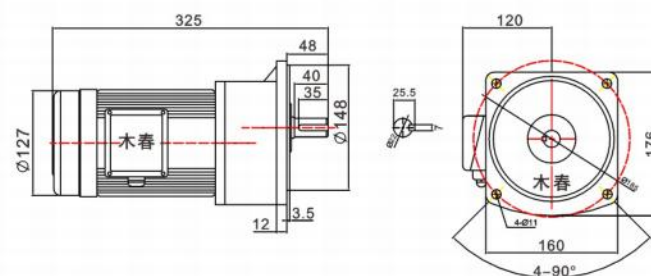
小机筒

► 外形尺寸(单位mm)/Shape Size(mm)

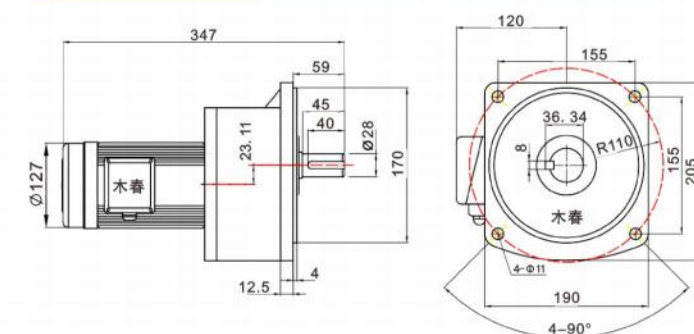
型号/Model number M400-V01-(3~10)



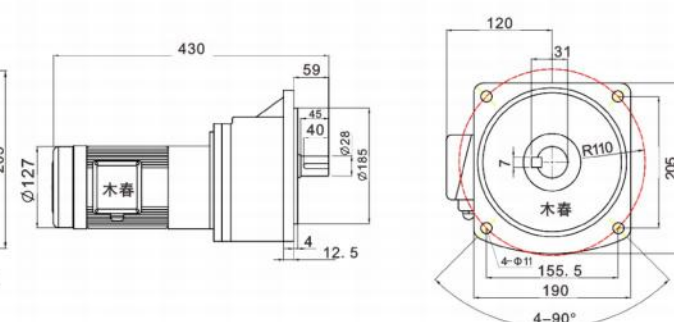
型号/Model number M400-V02-(3~90)



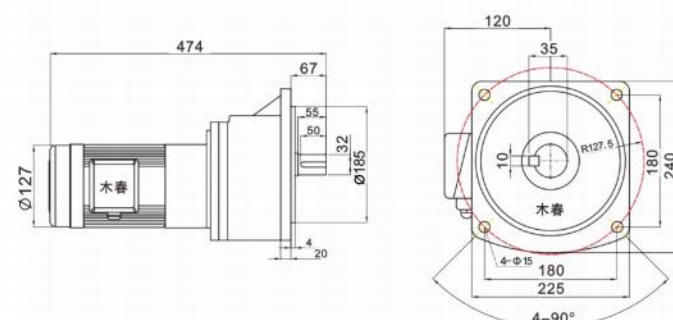
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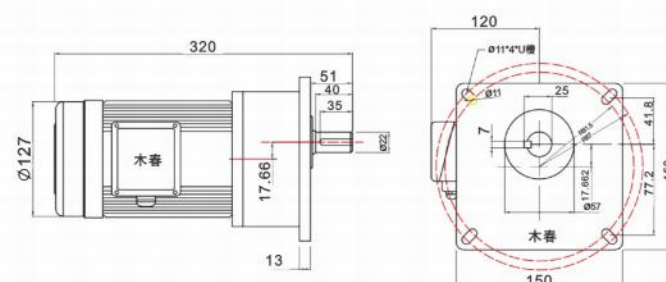
型号/Model number M400-V03-(210~25000)高比数



型号/Model number M400-V04-(210~20000)高比数



*型号/Model number M400-TV02-(3~90)偏心法兰



注明:带*型号为非标准型号
Note: Models with * are non-standard models

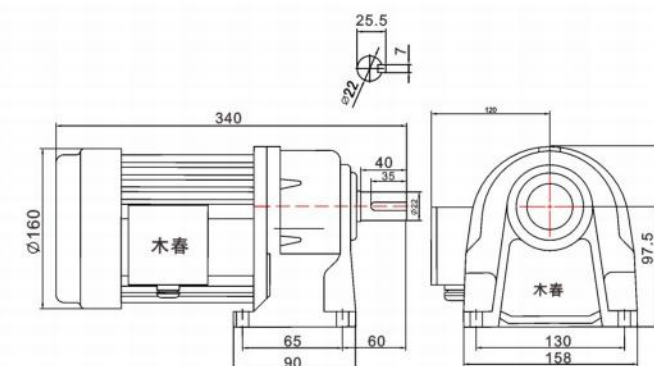
0.4KW

卧式/HORIZONTAL
单相/三相/1-PHASE/3-PHASE

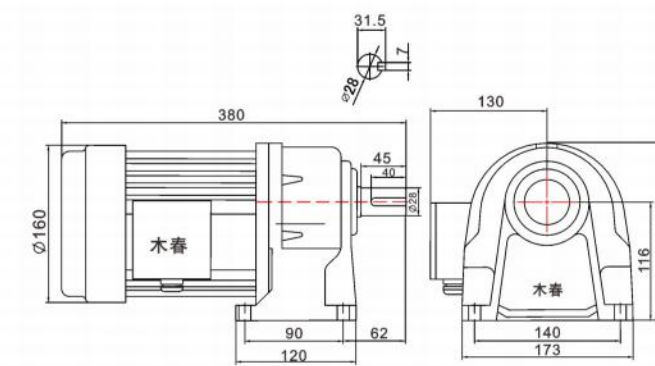
标准款

► 外形尺寸(单位mm)/Shape Size(mm)

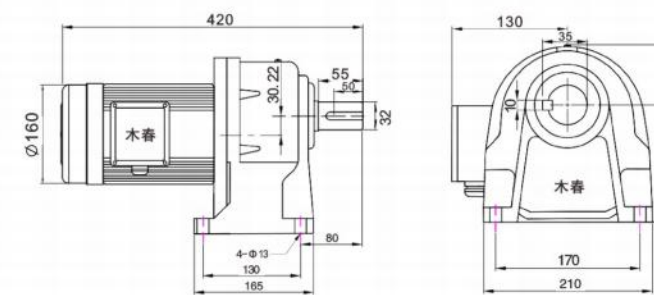
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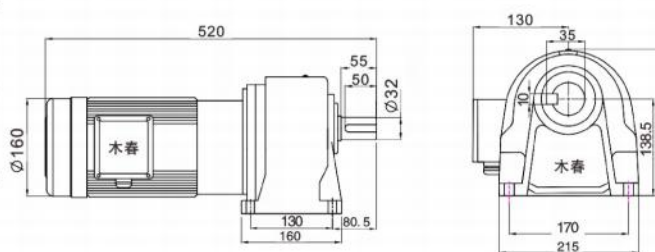
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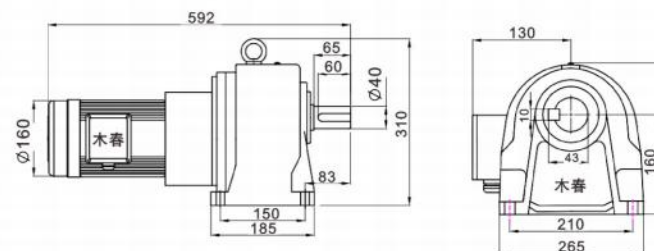
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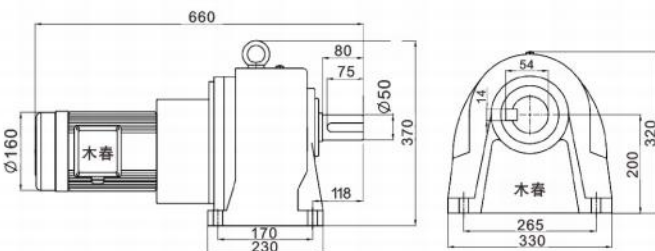
型号/Model number M400-H04-(210~20000)高比数



型号/Model number M400-H05-(210~20000)高比数



型号/Model number M400-H06-(210~25000)高比数



注明:带*型号为非标准型号
Note: Models with * are non-standard models

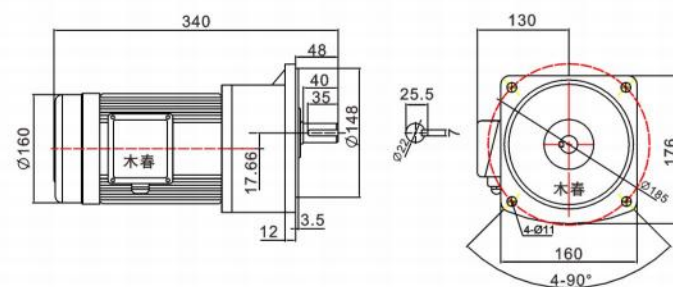
0.4KW

立式/VERTICAL
单相/三相/1-PHASE/3-PHASE

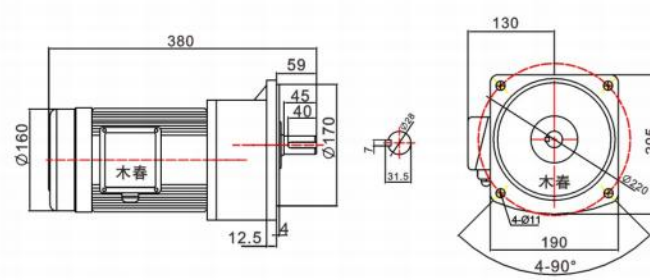
标准款

▶ 外形尺寸(单位mm)/Shape Size(mm)

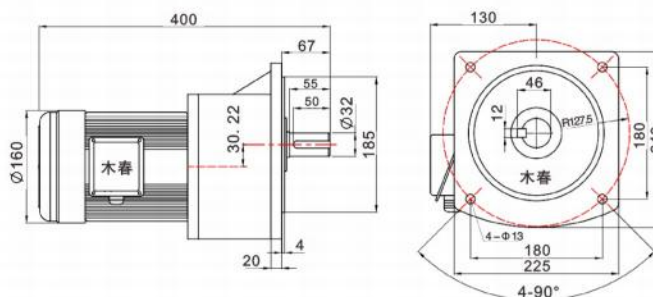
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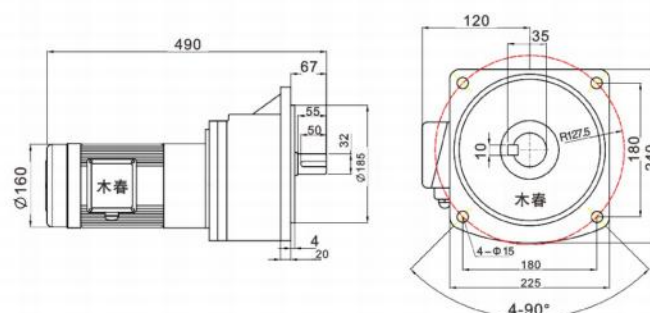
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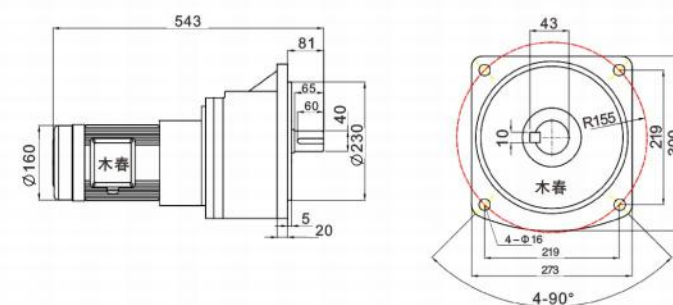
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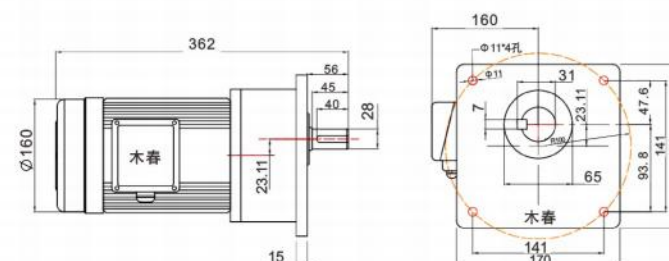
型号/Model number M400-V04-(210~20000)高比数



型号/Model number M400-V05-(210~20000)高比数



*型号/Model number M400-TV03-(15~200)偏心法兰



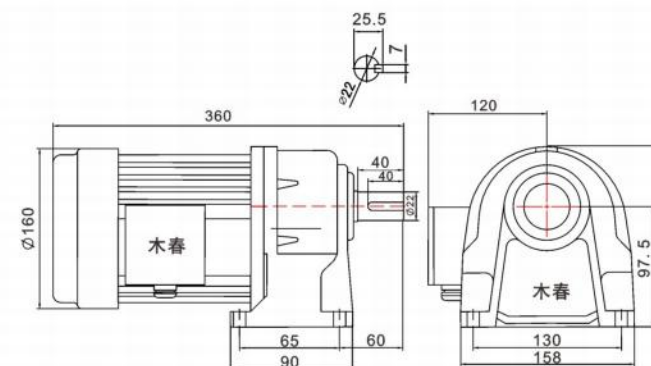
注明:带*型号为非标准型号
Note: Models with * are non-standard models

0.75KW/1.1KW

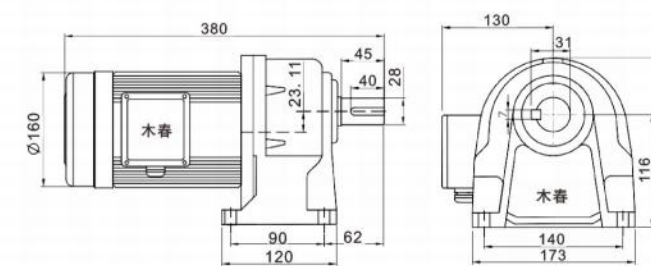
卧式/HORIZONTAL
三相/3-PHASE

▶ 外形尺寸(单位mm)/Shape Size(mm)

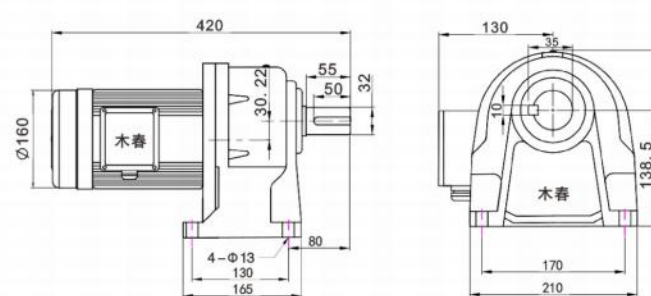
型号/Model number M750-H02-(3~25)



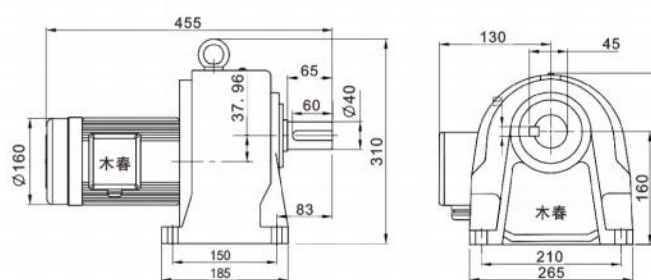
型号/Model number M750-H03-(3~120)



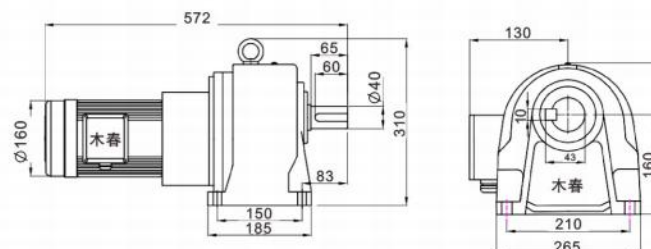
型号/Model number M750-H04-(30~200)



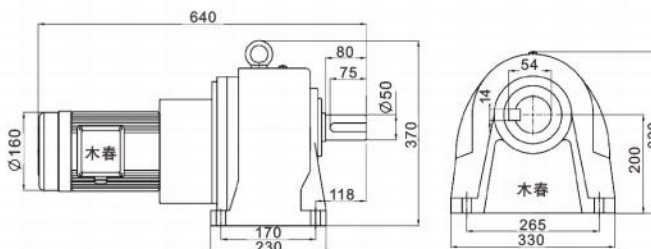
型号/Model number M750-H05-(125~200)



型号/Model number M750-H05-(210~25000)高比数



型号/Model number M750-H06-(210~25000)高比数



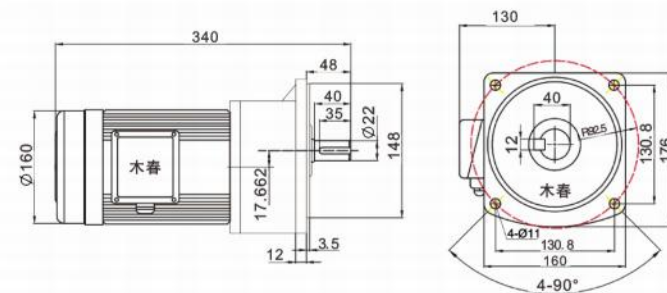
注明:带*型号为非标准型号
Note: Models with * are non-standard models

0.75KW/1.1KW

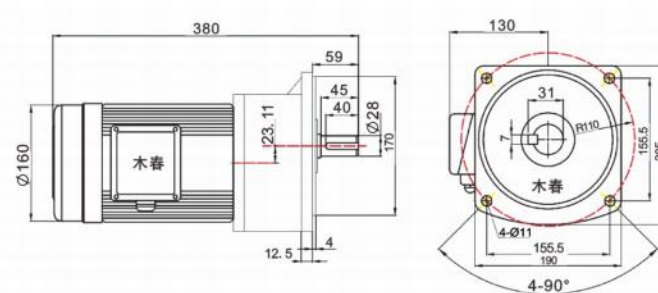
立式/VERTICAL
三相/3-PHASE

外形尺寸(单位mm)/Shape Size(mm)

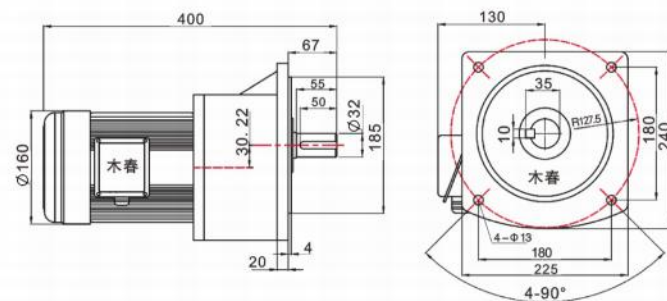
型号/Model number M750-V02-(3~25)



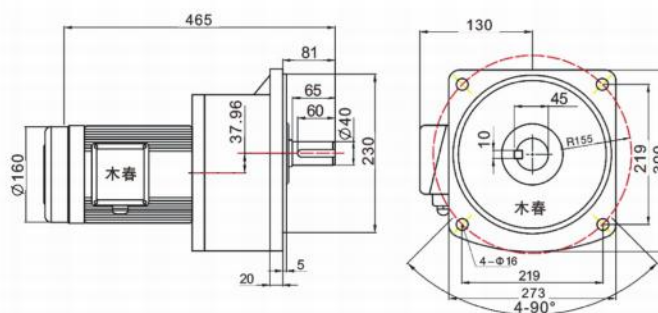
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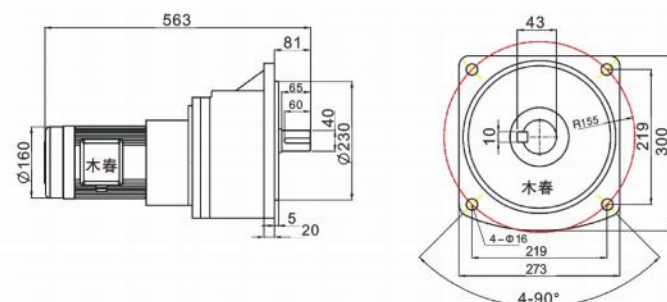
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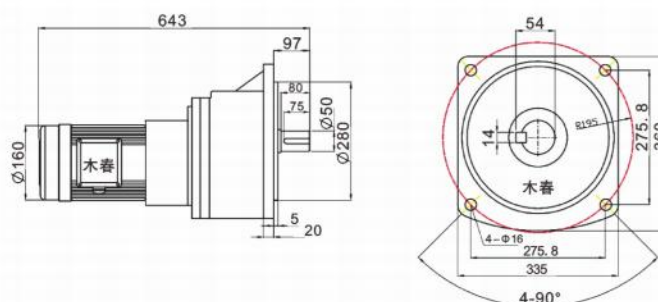
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型号/Model number M750-V05-(210~25000)高比数



*型号/Model number M750-V06-(210~25000)高比数



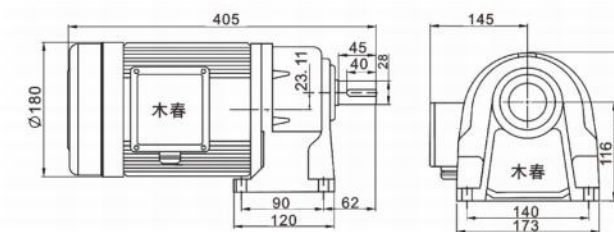
注明:带*型号为非标准型号
Note: Models with * are non-standard models

1.5KW/2.2KW

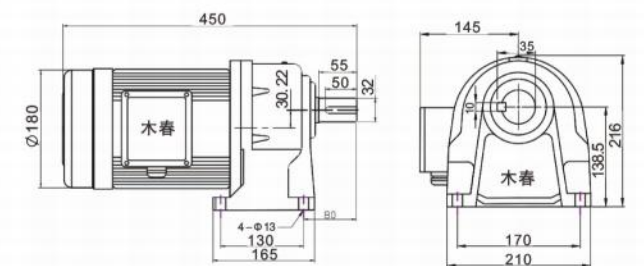
卧式/HORIZONTAL
三相/3-PHASE

外形尺寸(单位mm)/Shape Size(mm)

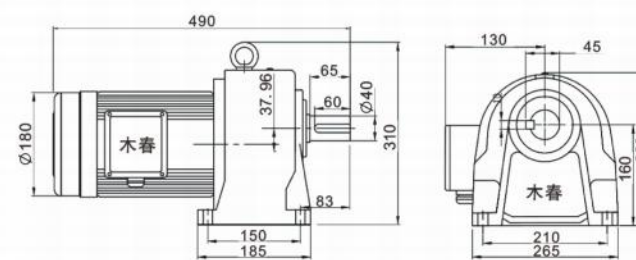
型号/Model number M1500/2200-H03-(3~25)



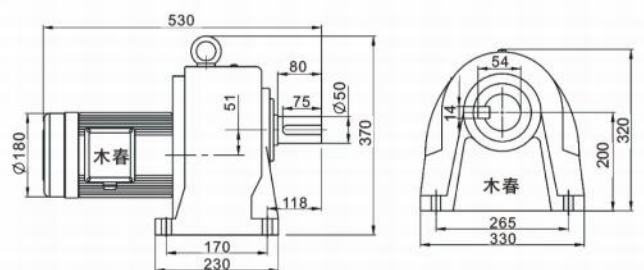
型号/Model number M1500/2200-H04-(3~120)



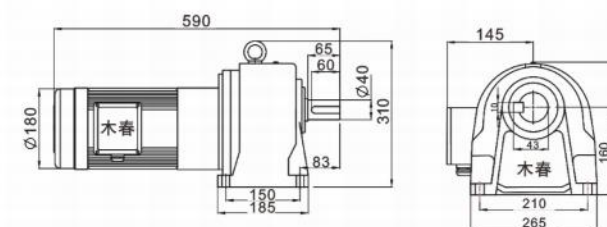
型号/Model number M1500/2200-H05-(30~200)



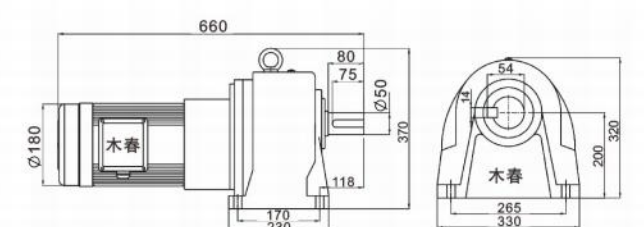
型号/Model number M1500/2200-H06-(125~200)



型号/Model number M1500/2200-H05-(210~22000)高比数



型号/Model number M1500/2200-H06-(210~20000)高比数

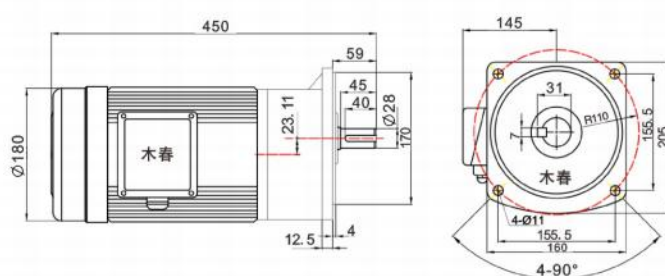


注明:带*型号为非标准型号
Note: Models with * are non-standard models

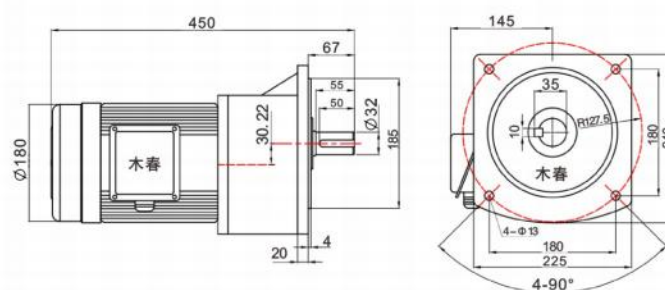
1.5KW/2.2KW 立式/VERTICAL 三相/3-PHASE

外形尺寸(单位mm)/Shape Size(mm)

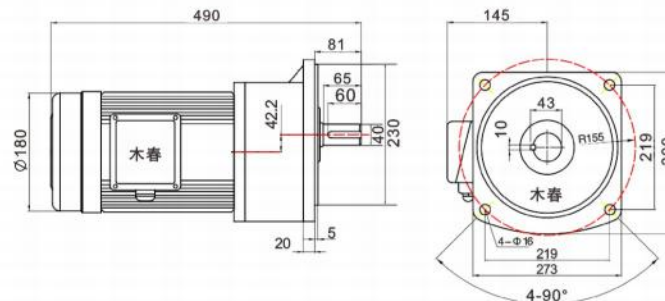
型号/Model number M1500/2200-V03-(3~25)



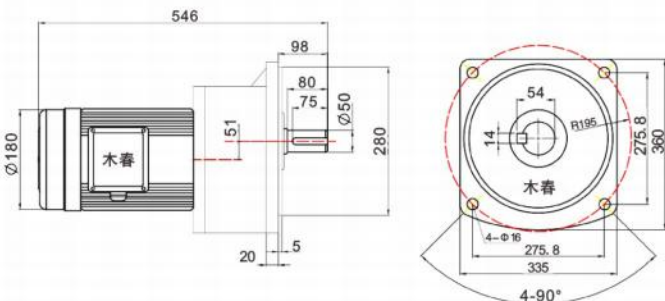
型号/Model number M1500/2200-V04-(3~120)



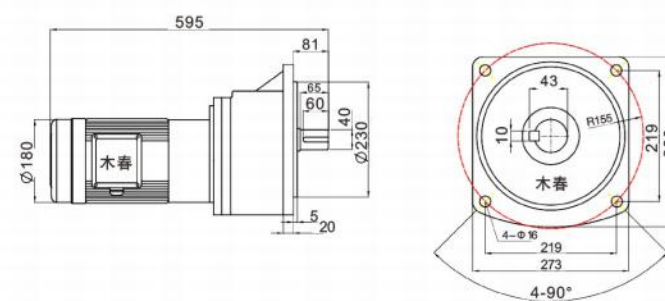
型号/Model number M1500/2200-V05-(30~200)



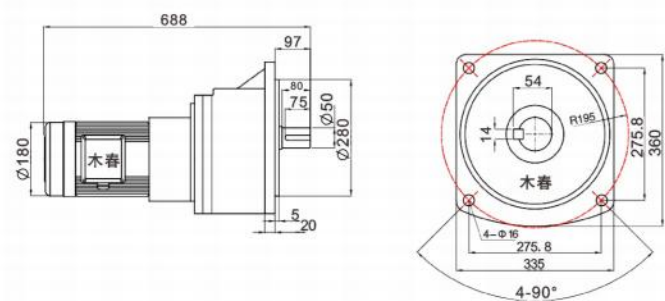
型号/Model number M1500/2200-V06-(125~200)



型号/Model number M1500/2200-V05-(210~22000)高比数



型号/Model number M1500/2200-V06-(210~20000)高比数

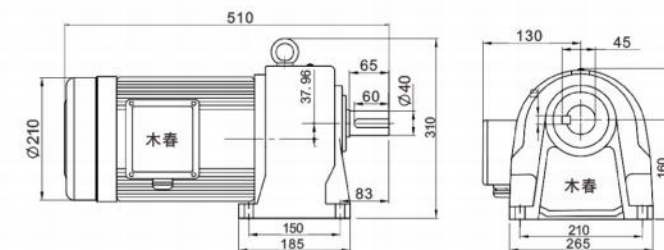


注明:带*型号为非标准型号
Note: Models with * are non-standard models

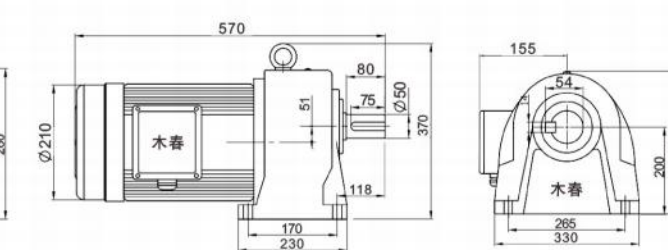
3.7KW/5.5KW 卧式/立式 HORIZONTAL/VERTICAL 三相/3-PHASE

外形尺寸(单位mm)/Shape Size(mm)

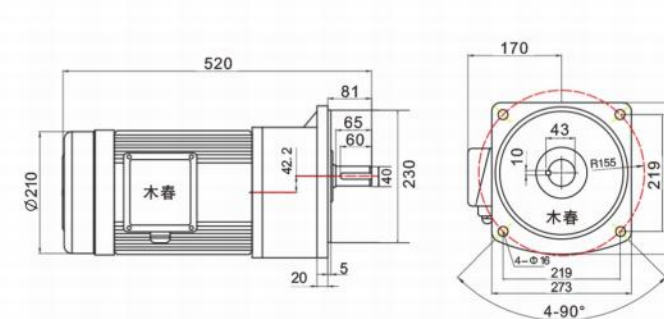
型号/Model number M3700-H05-(3~200)



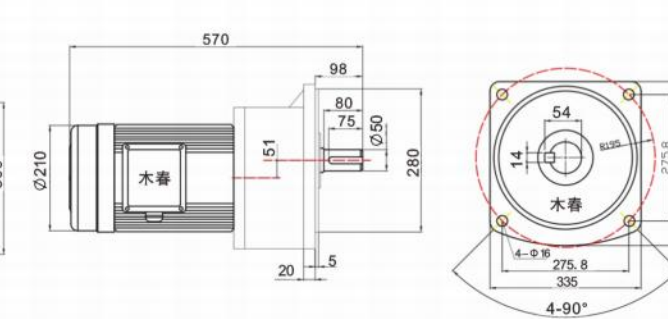
型号/Model number M3700-H06-(15~200)



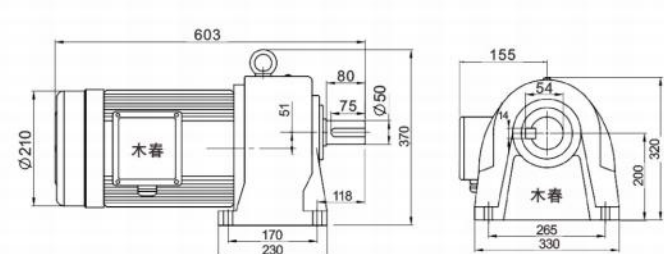
型号/Model number M3700-V05-(3~200)



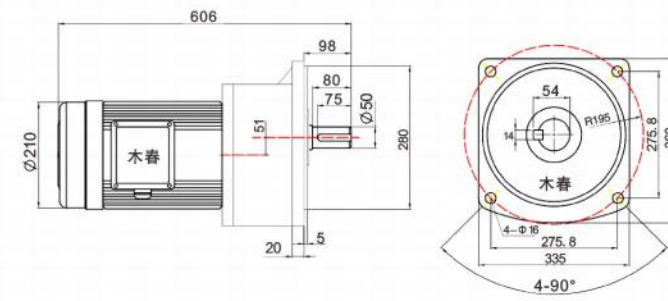
型号/Model number M3700-V06-(15~200)



型号/Model number M5500-H06-(15~200)

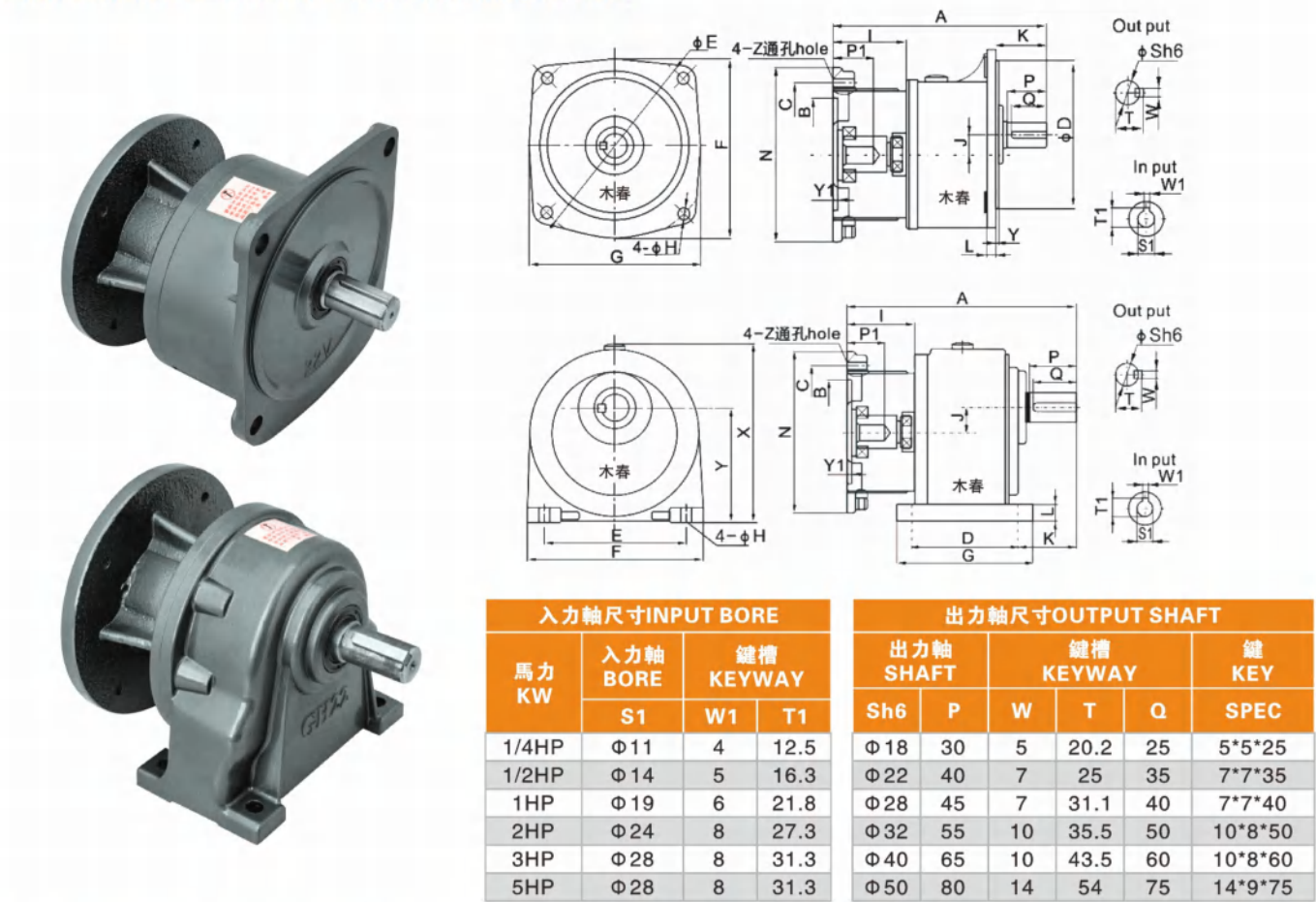


型号/Model number M5500-V06-(15~200)



注明:带*型号为非标准型号
Note: Models with * are non-standard models

MHM直联式齿轮减速机
 MHM DIRECT-COUPLED GEAR REDUCER



馬力 KW	減速比 RATIO	型號 TYPE	A	B	C	D	E	F	G	H	I	J	K	L	N	X	Y	Z	重量 Kg
200W 1/4HP	3-10	18	153	110	130	40	110	135	65	9	52.5	16	45	10	158	132	88.5	M8	4
	15-90	22	188	110	130	65	130	159	90	11	52.5	18.2	56	15	158	152	97.5	M8	6
	100-200	28	216	110	130	90	140	180	122	11	52.5	20.8	65	15	158	180	116	M8	8
400W 1/2HP	3-10	22	188	110	130	65	130	160	90	11	52.5	18.2	56	15	158	152	97.5	M8	6
	15-90	28	216	110	130	90	140	180	122	11	52.5	20.8	65	15	158	180	116	M8	8
	100-200	32	250	110	130	130	170	215	160	13	52.5	30.2	76	25	158	210	138.5	M8	21
750W 1HP	3-25	28	237	130	165	90	140	180	122	11	78	20.8	66	15	198	180	116	M10	11
	30-120	32	275	130	165	130	170	215	160	13	78	30.2	76	25	198	210	138.5	M10	26
	125-200	40	300	130	165	150	210	260	185	15	78	42.2	85	25	198	248	160	M10	38
1500W 2HP	3-25	32	275	130	165	130	170	215	160	13	78	30.2	76	25	198	210	138.5	M10	26
	30-120	40	300	130	165	150	210	260	185	15	78	42.2	85	25	198	248	160	M10	39
2200W 3HP	3-60	40	320	180	215	150	210	260	185	15	95	42.2	85	25	250	248	160	M12	40
	70-120	50	360	180	215	170	265	330	220	18	95	51.7	104	30	250	315	200	M12	45
3700W 5HP	3-25	40	320	180	215	150	210	260	185	15	95	42.2	85	25	250	248	160	M12	50
	30-80	50	360	180	215	170	265	330	220	18	95	51.7	104	30	250	315	200	M12	55

齿轮减速电机性能表(100W-5500W)
 GEAR MOTOR PERFORMANCE TABLE (100W-5500W)

▶ 扭力表/Torque meter
 单位kg-m

減速比 GEAR RATIO	出力回転数 OUTPUT R.P.M.		輸出转矩/ OUTPUT TORQUE															
			100W<1/8HP>		200W<1/4HP>		400W<1/2HP>		750W<1HP>		1500W<2HP>		2200W<3HP>		3700W<5HP>		5500W<7.5HP>	
	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz
3	500	600	0.19	0.16	0.37	0.31	0.7	0.6	1.3	1.1	2.6	2.2	3.8	3.2	6.0	5.5	9.8	9
5	300	360	0.31	0.26	0.62	0.52	1.2	1.0	2.2	1.9	4.5	3.8	6.72	5.6	11.0	10.0	16.5	13.3
10	150	180	0.62	0.52	1.24	1.04	2.4	2.0	4.5	3.8	9.1	7.6	13.7	11.2	22.0	20.0	33	27
15	100	120	0.91	0.76	1.8	1.5	3.6	3.0	6.8	5.7	13.5	11.3	21.0	16.8	32.6	29.8	50.5	40
20	75	90	1.2	1.0	2.4	2.0	4.8	4.0	9.0	7.5	18.1	15.1	26.8	22.4	43.6	36.0	65.8	53.5
25	60	72	1.4	1.2	3.0	2.5	6.0	5.0	11.2	9.4	22.6	18.9	33.6	28.0	53.9	49.5	82.3	66.8
30	50	60	1.8	1.5	3.6	3.0	7.2	6.0	13.5	11.6	27.1	22.6	40.3	33.6	64.7	58.8	98.7	80
40	37	45	2.2	1.9	4.6	3.9	9.3	7.8	17.5	14.6	34.9	29.1	52.0	43.4	86.3	78.4	131	106.8
50	30	36	2.8	2.4	5.7	8	11.6	9.7	21.9	18.3	43.6	36.4	65.1	54.3	106.7	97.0	165	133
60	25	30	3.4	2.9	6.9	5.8	13.9	11.6	26.2	21.9	52.4	43.7	78.1	65.1	126.8	115.2	197.5	160.2
70	21.4	25.7	4.3	3.6	8.0	3.7	16.2	13.5	31.5	26.3	62.4	52.0	92.5	77.1	156	126	230	181
80	18.8	22.5	4.8	4.0	9.2	7.7	18.4	15.4	35.5	29.6	70.8	59.0	105	87.5	178	145	263	214
90	16.7	20	5.2	4.4	10.3	8.6	20.7	17.3	39.3	32.8	77.1	64.3	113.1	94.3	200	100	296	240
100	15	18	5.8	4.9	11.5	9.6	23.0	19.2	43.2	36.0	83.7	69.8	126	105	221	180	329	267
120	12.9	15	6.9	5.8	13.8	11.5	27.7	23.1	51.8	43.2	100.4	83.7	150	145	266	215		
140	10.7	12.9	8.0	6.7	16.0	13.4	32.0	26.7	59.7	49.8	116.1	96.8						
160	9.4	11.3	9.1	7.6	18.3	15.3	36.0	30.3	68.0	56.7	131.8	109.9						
180	8.4	10	10.3	8.6	20.7	17.3	40.8	34.0	76.8	64.0	147.6	123						
200	7.5	9	11.6	9.7	22.9	19.1	43.2	36.0	82.8	69.0								
300	5	6	17.5	14.9	35.1	28.3	70.2	56.7	132.6	107.1								
1200	1.25	1.5	58.5	47.6	70.2	56.7	70.2	56.7	132.6	107.1								
1800	0.83	1	58.5	47.6	70.2	56.7	70.2	56.7	132.6	107.1								

▶ 三相电压全负载电流值/3-PHASE/4-POLES FULL LOAD AMPERE

輸出馬力 CAPACITY	50HZ-4P					60HZ-4P				
	220V	380V	415V	440V	RPM	220V	380V	440V	460V	RPM
100W	0.87	0.5	0.32	0.30	1410	0.6	0.4	0.30	0.29	1720
200W	1.39	0.8	0.7	0.58	1410	1.1	0.63	0.55	0.52	1720
400W	2.4	1.4	1.13	1.07	1420	1.9	1.10	0.95	0.91	1730
750W	3.8	2.2	1.94	1.84	1420	3.4	1.96	1.70	1.63	1730
1500W	6.9	4.0	3.94	3.30	1430	6.1	3.53	3.05	2.92	1740
2200W	9.5	5.5	4.74	4.47	1430	8.7	5.04	4.35	4.16	1725
3700W	15.9	9.2	7.34	7.34	1440	13.5	7.82	6.75	6.46	1745
5500W	23.5	13.5	-	-	1440	20.8	12.0	-	-	1745
7500W	26.0	15.0	-	-	1400	23.9	13.8	-	-	1745

接线方式
 WIRING DIAGRAM

三相电机接线方式 /FOR3-PHASE MOTOR

三相电机
接线方式
FOR 3-PHASE
MOTOR

三相电机与刹车器接线方式
THE CONNECTION MODE FOR THREE PHASE MOTOR AND BRAKE

※注：刹车器两根电源线接任意两根接线端。
Note:Brake wires can connect to either pin.
※注：使用变频器时，刹车线需单独接电源。

※注：刹车器电源线一根接电机公共端，另外一根接电机任意一组。
Note:One of brake wire connect to motor public and the other wire connects to either motor wire.

立式三相标准IEC铝壳(刹车)马达
 VERTICAL THREE-PHASE STANDARD IEC ALUMINUM (BRAKE) MOTOR

输出马达 CAPACITYP	A	A1	D	E	F	H	K	M	P	S	T	W	Y	重量 kg
100W 1/8HP	200	200	110	130	160	10	23	127	10	11	12.5	4	3	3.8
200W 1/4HP	220	220	110	130	160	10	23	127	10	11	12.5	4	3	5.5
400W 1/2HP	250	250	110	130	160	10	30	159	14	14	16	5	3	6.9
750W 1HP	295	295	130	165	200	12	40	159	25	19	21.5	6	3	10.6
1500W 2HP	350	370	130	165	200	12	50	190	32	24	27	8	3.5	16.5
2200W 3HP	384	410	180	215	250	14.5	60	220	40	28	31	8	4	28
3700W 5HP	400	426	180	215	250	14.5	60	220	40	28	31	8	4	34.5
5500W 7.5HP	447	487	230	265	300	15	80	250	60	38	41.5	10	4	45
7500W 10HP	487	527	230	265	300	15	80	250	60	38	41.5	10	4	55

备注:A1为三相带刹车马达尺寸
 Remarks:Alis the size of the three-phase motor with brake

故障排除
 TROUBLE SHOUTING

▶ 刹车故障排除/Trouble Remove Of Brake

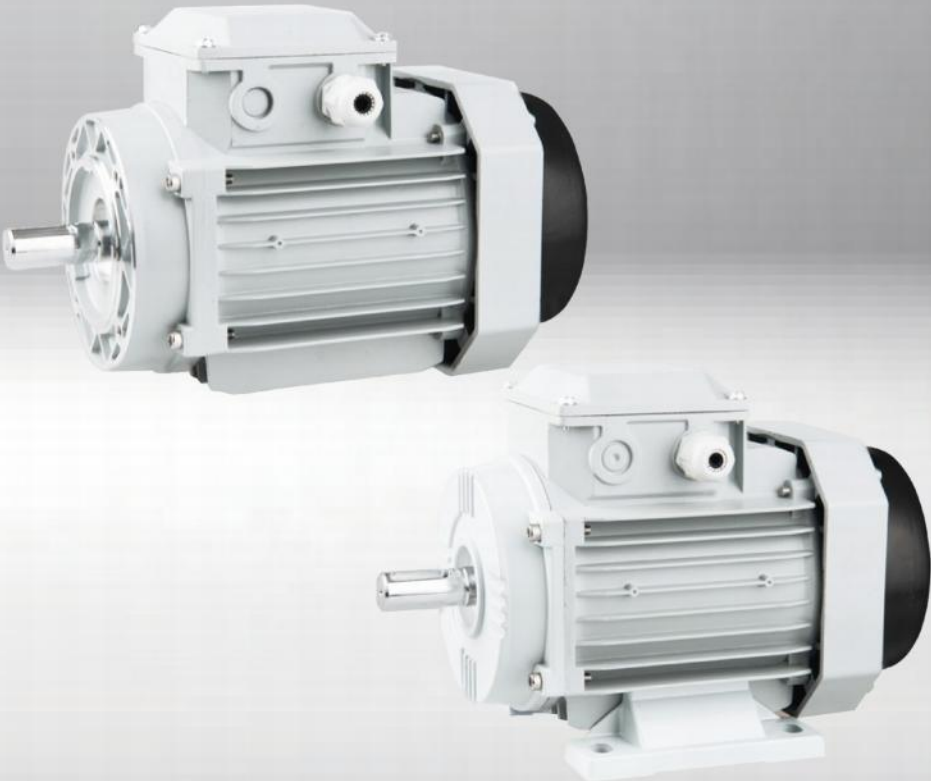
不良故障 Trouble	原因分析 Possible Analysis	解决方式 Solution Method
刹车器不动作 No action of brake	未供电电源No power supply	供应电源Supply power
	来令片磨损Brake disc worn out	换新来令片Use new brake disc
	间隙过大Large backlash	调整间隙Adjust backlash
	电源压力不足Low voltage	提供正确电压Use correct voltage
	电源供应器损坏Power supply damage	电源供应器换新Use new power
	异物入侵 Dirty inside	清洁零件Clean parts
	使用电压错误Wrong voltage	使用正确电压Correct voltage
	接线脱落Connect wire lost	重新接线Re-connect wire
	来令片卡死Brake disc locked	清洁零件Clean parts
	刹车圈烧坏Brake coil burned-out	刹车线圈换新Use new brake disc
刹车移动 Brake moving	来令片磨损Brake disc worn out	换新来令片Supply power
	间隙过大Large backlash	调整间隙Adjust backlash
	来令片沾染油渍Surface oil	清洁来令片Clea brake disc
	负载过大Over loading	重新设计Re-design brake unit
	刹车表面歪斜Disc surface twist	更换零件Use new parts
	下降衡量过大Huge momentum	机构重新设计System re-design
	选用机型错误Select wrong type	选用正确机型Re-select unit
	环境温度过高No power supply	检查环境温度Ad just temperature

▶ 减速机器故障排除/Trouble Shouting Gearmotor

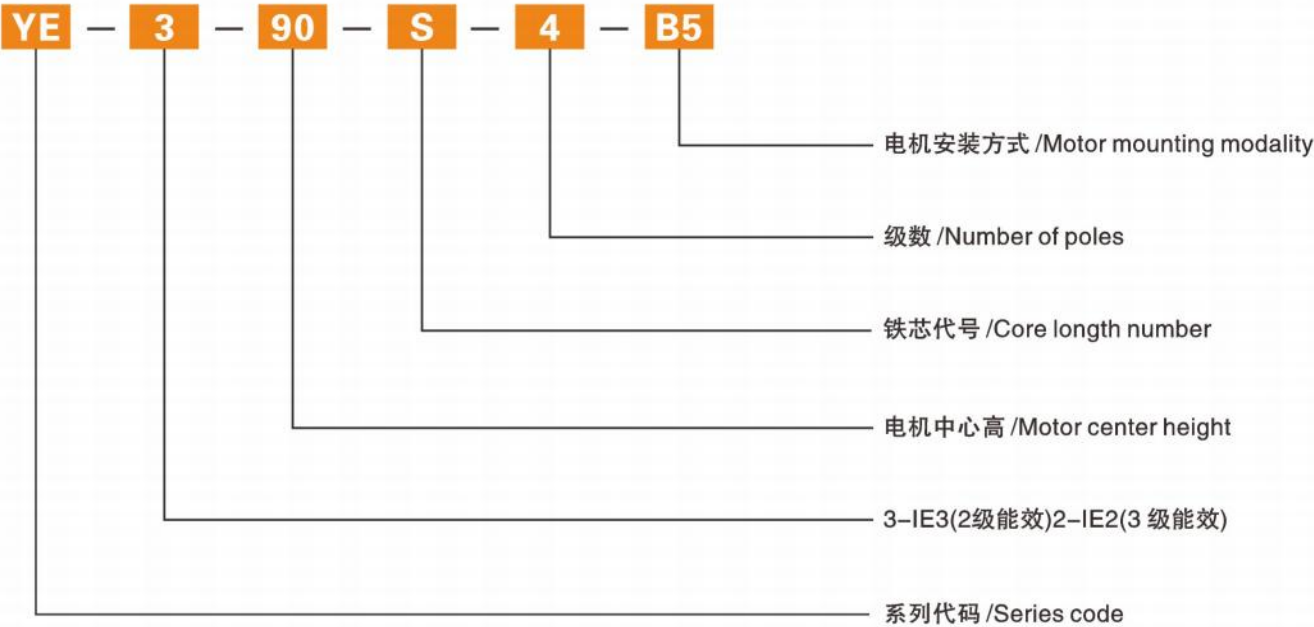
	不良故障 Trouble	原因分析 Psilanalysis	解决方式 Solution Method
噪音 Noise	齿轮敲击声Knocking	齿轮表面受伤Hurt gear surface	更换受伤齿轮组Replace gear set
	连续性杂音Cntinaly	轴承损坏Bad bearing	更换损坏轴承Replace bearing
	周期性杂音Pridciall	异物附着齿面Pticle iside	检测齿轮齿面Check gear
	嘶嘶声Neight	油量不足Lack of lubricant	添加润滑油Fil with lub-oil
	继续性杂音ntemittetty	润滑油不洁Dity ubricant	更换新润滑油Replace lubricant
振动 Vibration	固定底座振动Mounting base vbration	安装平面歪斜Bad surface mounting	重新调整固定底座Re adjust mounting base
	出力轴振动Output shaft vibration	轴承损坏Bad bearing	更换损坏轴承Replace bearing
	内部齿轮零件振动Inside gear parts vibration	齿轮受损Gear wounded	更换受损齿轮Replace wounded gear
漏油 Leakage	箱体漏油Housing leakage	箱体有砂孔Box had sand hole	更换砂孔箱体Replace sand hole box
	油封漏油Oil seal leakage	油封硬化Oil seal too harden	更换损坏油封Replace wounded oil seal
	结合面漏油Connect surface eakage	0-型环损坏0-ring broken	更换损坏0-型环Replace wounded
过热 Over heating	油封Bad oil seal	0-ing油封太紧Oil seal too tight	更换太紧油封Replace tghtenoilseal
	箱体过热Housing too heat	过负载Over load runing	重新计算负载马力Re-calculate loading
	缺润滑油Less lubricant	油量不足Lack of lubricant	加入润滑油Fil with lubricant
	马达过热Motor tooheat	马达过载Overload motor	更换新马达Replace new motor

普通铝壳电机

3-PHASE MOTOR



电机代号说明/Machine code description



防护等级/Protection grade



冷却方式/Cooling mode



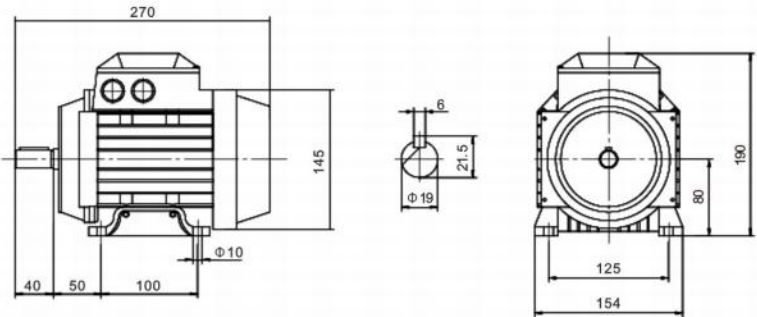
▶ YE2 系列技术参数/YE2 Series Technical Parameters

1500R/min 380V 50Hz										
型号 TYPE	额定功率 RATED OUTPUT		额定 转速 RATED SPEED	效率 EFFI CENCY	功率 因数 POWER FOCTOR	额定 电流 RATED CURRENT	额定 转矩 RATED TORQUE	堵转转矩 LOCKED ROTOR TORQUE	最大转矩 MAXIMUM TORQUE	堵转电流 LOCKED ROTOR CURRENT
								额定转矩 RATED TO RQUE	额定转矩 RATED TO RQUE	额定电流 RATED CU RRENT
	KW	HP	rpm	η % (IE2)	COSΦ	A	Nm	Ts/Tn	Tmax/Tn	Is/In
YE2-802-4	0.75	1	1400	79.6	0.76	1.88	5.12	2.30	2.3	6.6
YE2-90S-4	1.1	1.5	1440	81.4	0.77	2.67	7.30	2.30	2.3	6.8
YE2-90L-4	1.5	2	1440	82.8	0.77	3.57	9.95	2.30	2.3	7.0
YE2-100L1-4	2.2	3	1440	84.3	0.81	4.90	14.60	2.30	2.3	7.6
YE2-100L2-4	3	4	1440	85.5	0.82	6.50	19.90	2.30	2.3	7.6
YE2-112M-4	4	5.5	1440	86.6	0.82	8.56	26.50	2.20	2.3	7.8
YE2-132S-4	5.5	7.5	1450	87.7	0.83	11.5	36.20	2.00	2.3	7.9
YE2-132M-4	7.5	10	1450	88.7	0.84	15.3	49.40	2.00	2.3	7.5
YE2-160M-4	11	15	1460	89.8	0.84	22.2	72.00	2.20	2.3	7.7
YE2-160L-4	15	20	1460	90.6	0.85	29.6	98.10	2.20	2.3	7.8
YE2-180M-4	18.5	25	1470	91.2	0.86	35.8	120.20	2.00	2.3	7.8
YE2-180L-4	22	30	1470	91.6	0.86	42.4	142.90	2.00	2.3	7.8

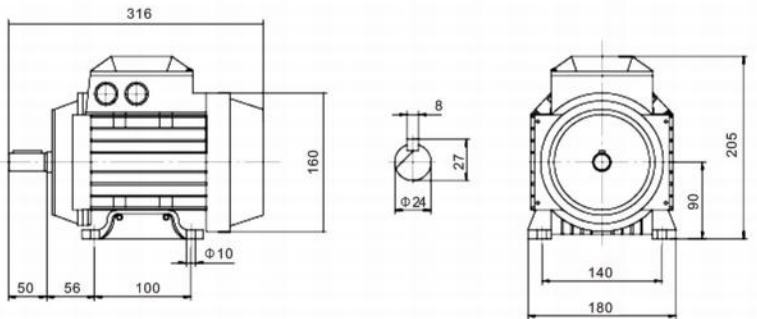
1000R/min 380V 50Hz										
型号 TYPE	额定功率 RATED OUTPUT		额定 转速 RATED SPEED	效率 EFFI CENCY	功率 因数 POWER FOCTOR	额定 电流 RATED CURRENT	额定 转矩 RATED TORQUE	堵转转矩 LOCKED ROTOR TORQUE	最大转矩 MAXIMUM TORQUE	堵转电流 LOCKED ROTOR CURRENT
								额定转矩 RATED TO RQUE	额定转矩 RATED TO RQUE	额定电流 RATED CU RRENT
	KW	HP	rpm	η % (IE2)	COSΦ	A	Nm	Ts/Tn	Tmax/Tn	Is/In
YE2-90S-6	0.75	1	930	75.9	0.72	2.09	7.7	2.0	2.1	6.0
YE2-90L-6	1.1	1.5	940	78.1	0.72	2.97	11.2	2.0	2.1	6.0
YE2-100L-6	1.5	2	940	79.8	0.75	3.80	15.2	2.0	2.1	6.5
YE2-112M-6	2.2	3	960	81.8	0.76	5.38	21.9	2.0	2.1	6.6
YE2-1323-6	3	4	960	83.3	0.76	7.20	29.8	2.0	2.1	6.8
YE2-132M1-6	4	5.5	960	84.6	0.76	9.45	39.8	2.0	2.1	6.8
YE2-132M2-6	5.5	7.5	960	86.0	0.77	12.6	54.7	2.0	2.1	7.0
YE2-160M-6	7.5	10	970	87.2	0.78	16.8	73.8	2.0	2.1	7.0
YE2-160L-6	11	15	970	88.7	0.78	24.2	108.3	2.0	2.1	7.2
YE2-180L-6	15	20	970	89.7	0.81	31.4	147.7	2.0	2.1	7.3

▶ 外形尺寸(单位mm)/Shape Size(mm)

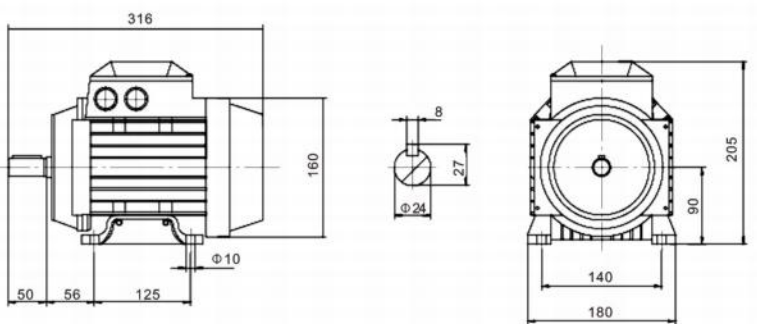
型号 / Model number B3 YE2.YE3 80M



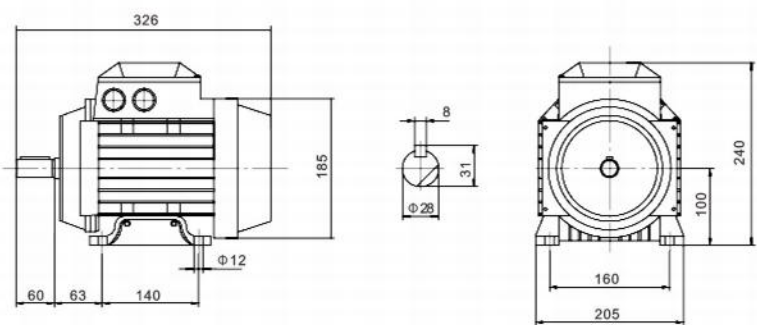
型号 / Model number B3 YE2.YE3 90S



型号 / Model number B3 YE2.YE3 90L

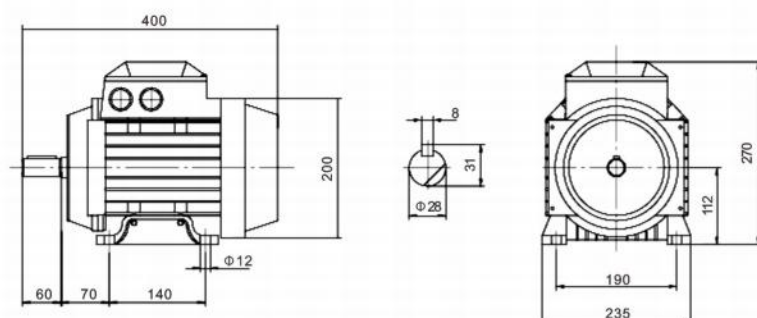


型号 / Model number B3 YE2.YE3 100L

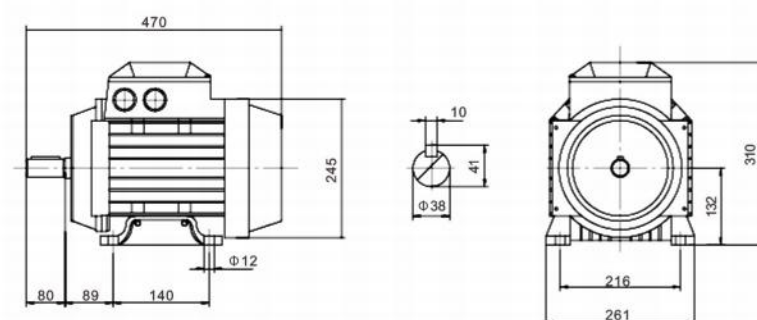


► 外形尺寸(单位mm)/Shape Size(mm)

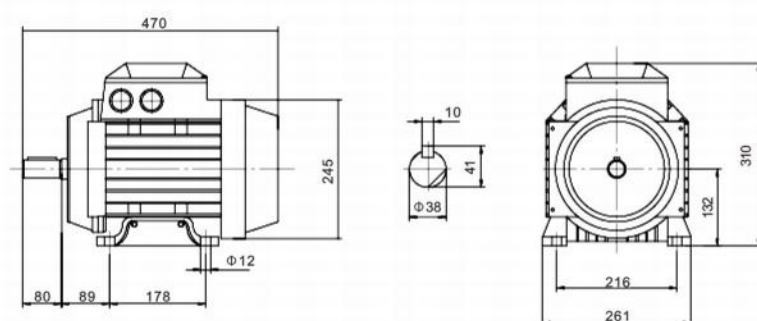
型号/Model number B3 YE2.YE3 112M



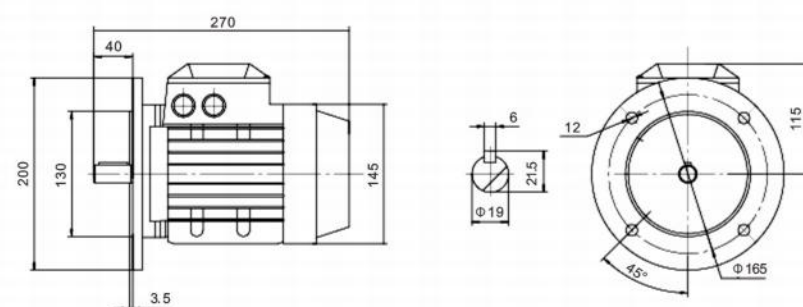
型号/Model number B3 YE2.YE3 132S



型号/Model number B3 YE2.YE3 132M

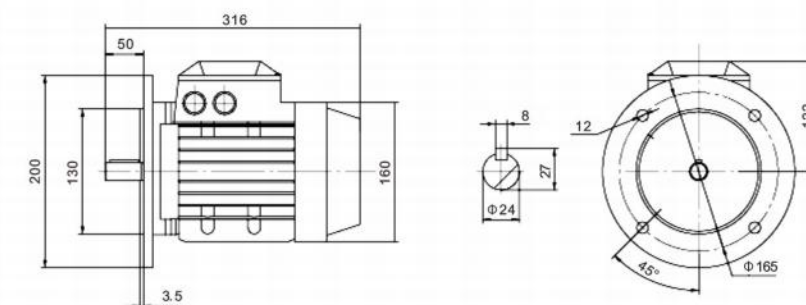


型号/Model number B5 YE2.YE3 80M

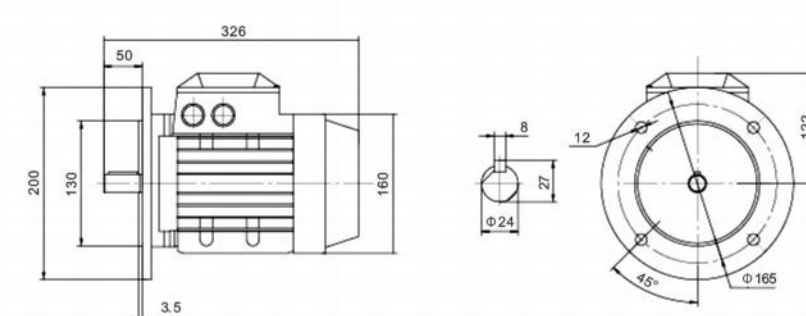


► 外形尺寸(单位mm)/Shape Size(mm)

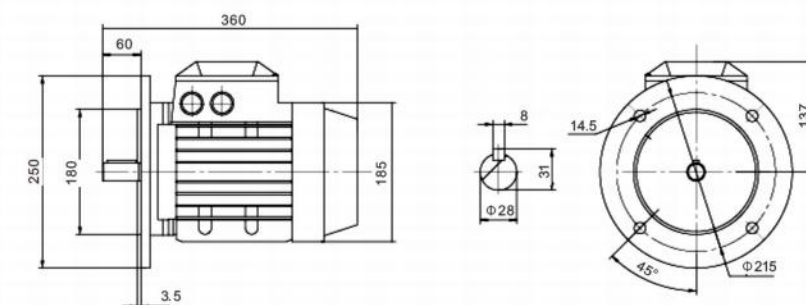
型号/Model number B5 YE2.YE3 90S



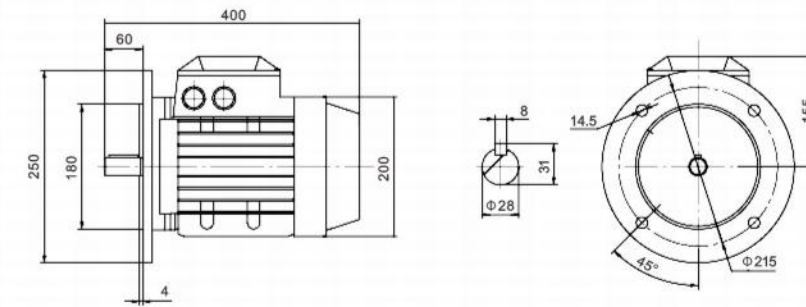
型号/Model number B5 YE2.YE3 90L



型号/Model number B5 YE2.YE3 100L

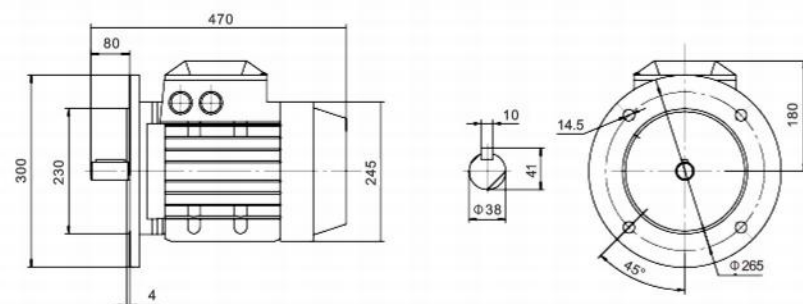


型号/Model number B5 YE2.YE3 112M

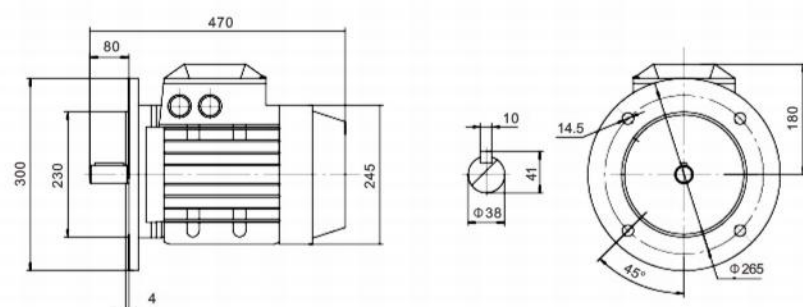


▶ 外形尺寸(单位mm)/Shape Size(mm)

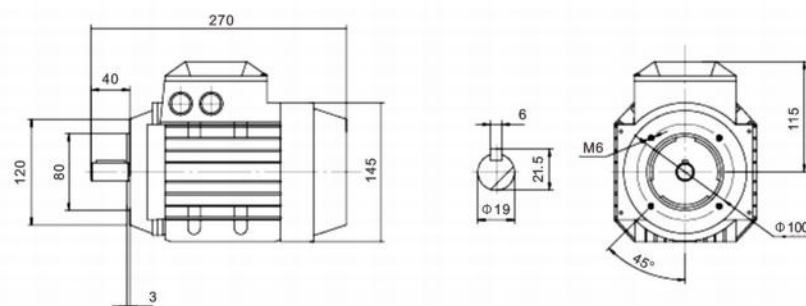
型号/Model number B5 YE2.YE3 132S



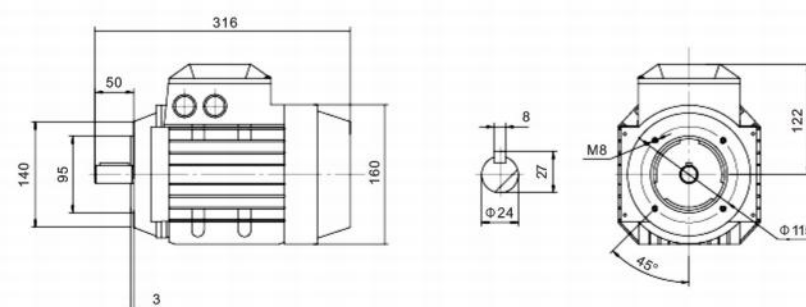
型号/Model number B5 YE2.YE3 132M



型号/Model number B14 YE2.YE3 80M

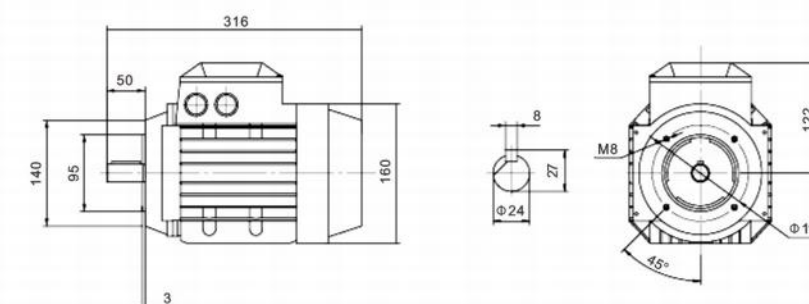


型号/Model number B14 YE2.YE3 90S

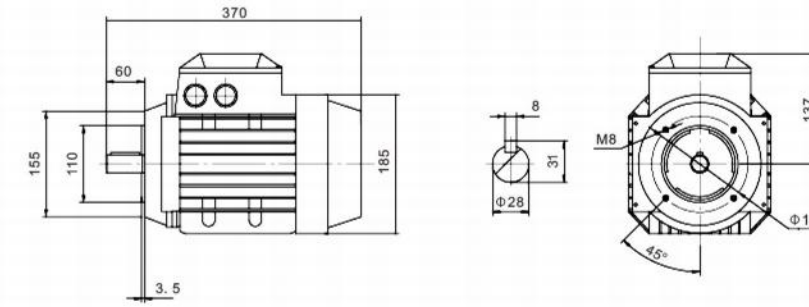


▶ 外形尺寸(单位mm)/Shape Size(mm)

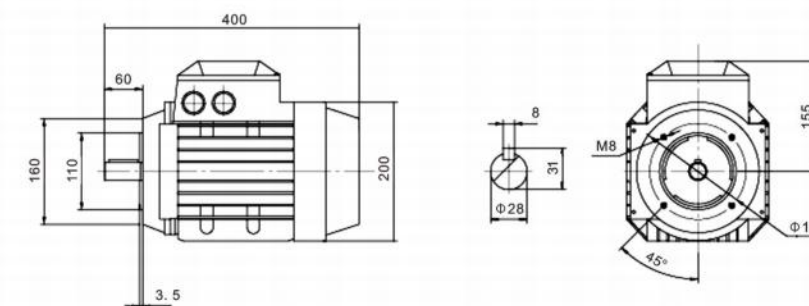
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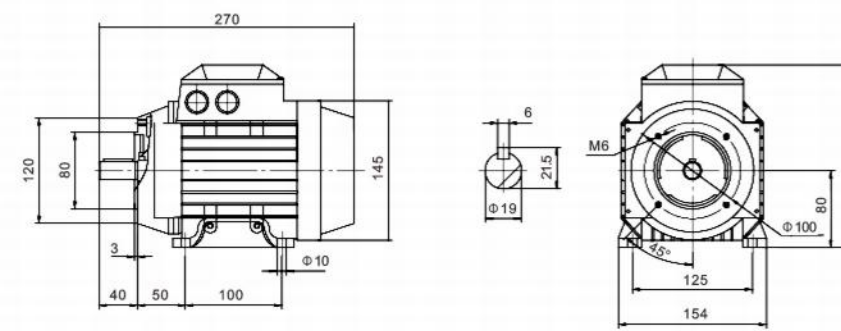
型号/Model number B14 YE2.YE3 100L



型号/Model number B14 YE2.YE3 112M

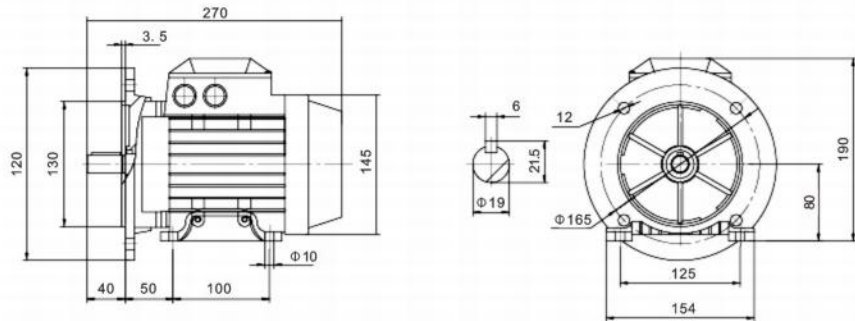


型号/Model number B34 YE2.YE3 80M

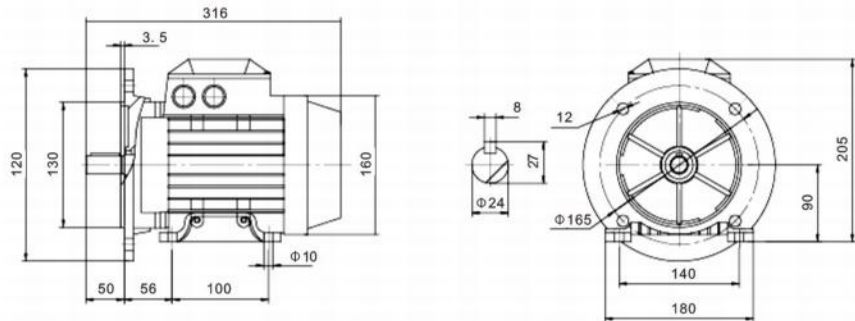


▶ 外形尺寸(单位mm)/Shape Size(mm)

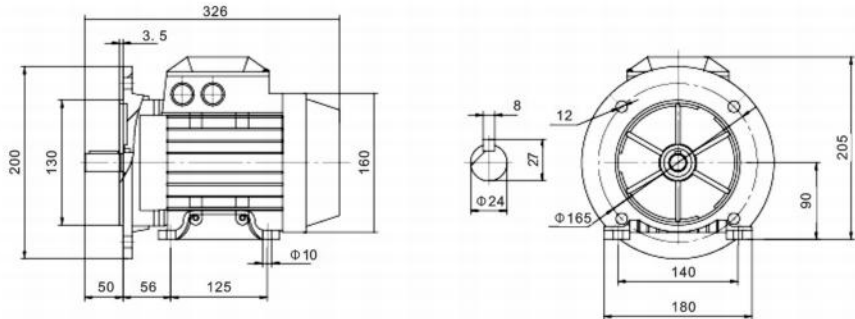
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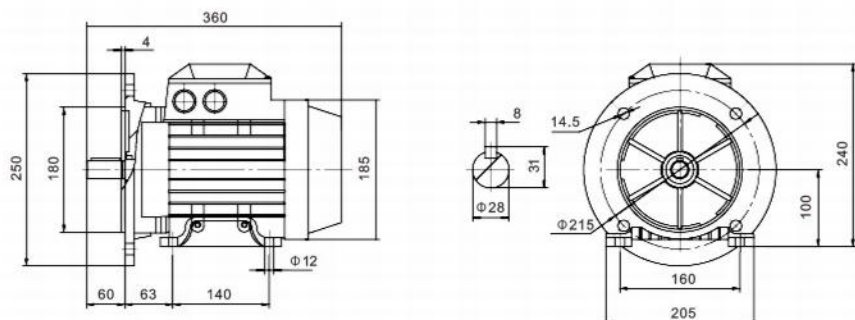
型号/Model number B35 YE2.YE3 90S



型号/Model number B35 YE2.YE3 90L

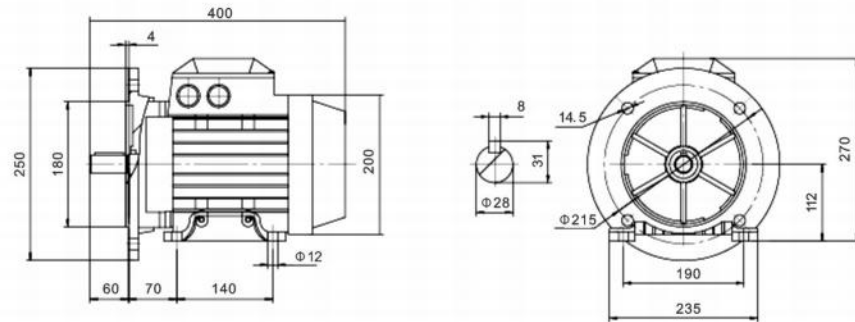


型号/Model number B35 YE2.YE3 100L

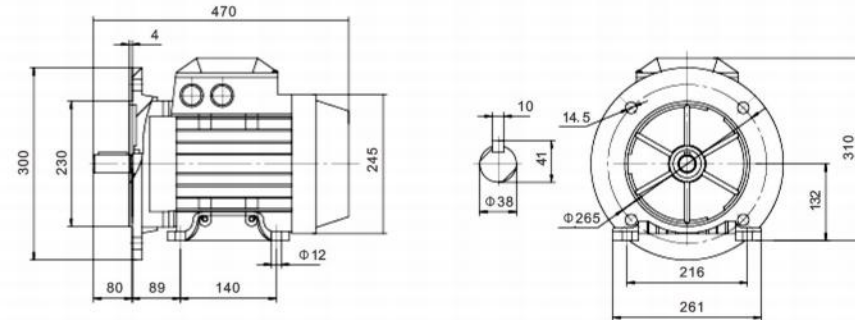


▶ 外形尺寸(单位mm)/Shape Size(mm)

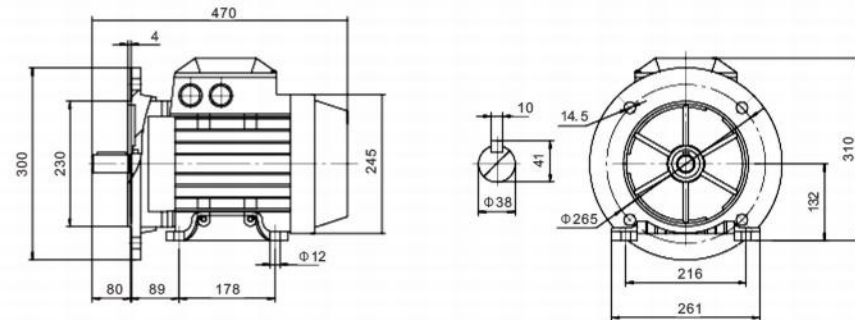
型号/Model number B35 YE2.YE3 112M



型号/Model number B35 YE2.YE3 132S



型号/Model number B35 YE2.YE3 132M



精密行星减速机 & 中空旋转平台

PRECISION PLANETARY REDUCER & ROTATING PLATFORM



直齿系列型号标记/Straight tooth series model mark

PRF系列 / PRF Series						
PRF 产品系列 Product series	90 产品规格 Product specification	L1 级数 series	7 传动比 Gear ratio	P1 背隙 Back clearance	输出型式 Output type	
	40、60、80、 90、120、160	L1=1级 L2=2级 L1= Level 1 L2= Level 2	L1: 3、4、5 7、10 L2: 12、15、16 20、25、28 30、35、40 50、70、100	P1=精密背隙 P2=标准背隙 P1= precise back clearance P2= standard back clearance	S1=光轴输出 无=带键输出 S1= optical axis output None = Output with key	电机制造商及规格型号。 也可以直接提供输出连接尺寸 Motor manufacturers and specifications. Output connection dimensions can also be supplied directly

PRL系列 / PRL Series						
PRL 产品系列 Product series	90 产品规格 Product specification	L1 级数 series	10 传动比 Gear ratio	P1 背隙 Back clearance	输出型式 Output type	
	40、60、80、 90、120、160	L1=1级 L2=2级 L1= Level 1 L2= Level 2	L1: 3、4、5 7、10 L2: 12、15、16 20、25、28 30、35、40 50、70、100	P1=精密背隙 P2=标准背隙 P1= precise back clearance P2= standard back clearance	S1=光轴输出 无=带键输出 S1= optical axis output None = Output with key	电机制造商及规格型号。 也可以直接提供输出连接尺寸 Motor manufacturers and specifications. Output connection dimensions can also be supplied directly

PVFN系列 / PVFN Series						
PVFN 产品系列 Product series	90 产品规格 Product specification	L1 级数 series	10 传动比 Gear ratio	P1 背隙 Back clearance	输出型式 Output type	
	60、90、120	L1=1级 L2=2级 L1= Level 1 L2= Level 2	L1: 3、4、5 7、10 L2: 12、15、16 20、25、28 30、35、40 50、70、100	P1=精密背隙 P2=标准背隙 P1= precise back clearance P2= standard back clearance	S1=光轴输出 无=带键输出 S1= optical axis output None = Output with key	电机制造商及规格型号。 也可以直接提供输出连接尺寸 Motor manufacturers and specifications. Output connection dimensions can also be supplied directly

斜齿系列型号标记/Helical series model mark

PX系列 / PX series						
PX 产品系列 Product series	90 产品规格 Product specification	L1 级数 series	5 传动比 Gear ratio	P1 背隙 Back clearance	输出型式 Output type	
	42、60、 90、120	L1=1级 L2=2级 L1= Level 1 L2= Level 2	L1: 3、4、5 7、8、10 L2: 12、15、20 25、28、30 35、40、50 70、100	P1=精密背隙 P2=标准背隙 P1= precise back clearance P2= standard back clearance	S1=光轴输出 无=带键输出 S1= optical axis output None = Output with key	电机制造商及规格型号。 也可以直接提供输出连接尺寸 Motor manufacturers and specifications. Output connection dimensions can also be supplied directly

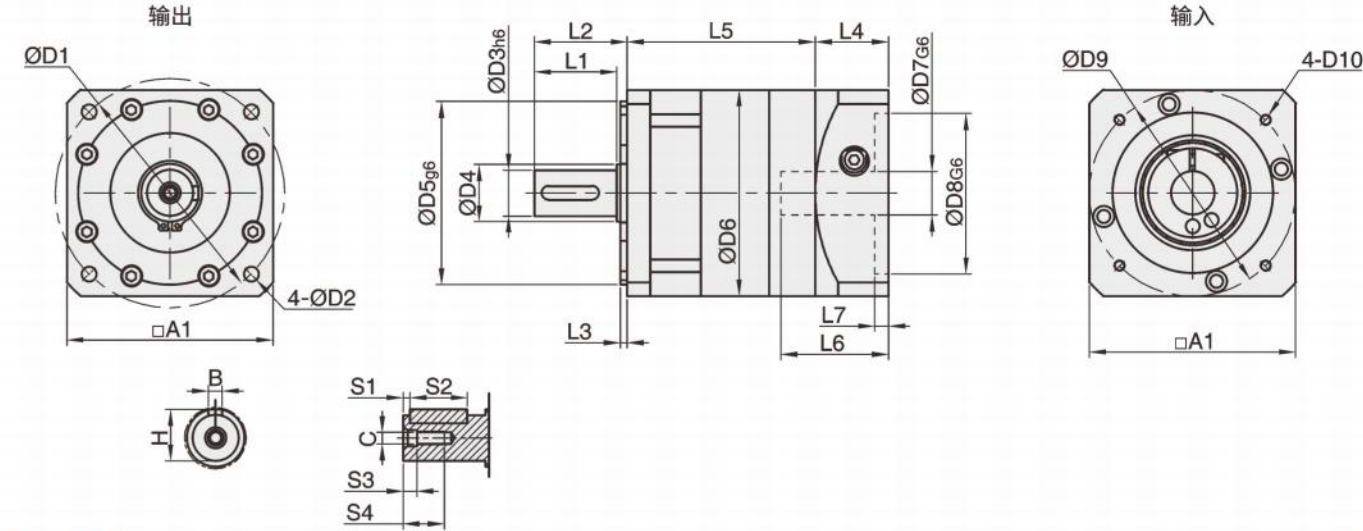
PG系列 / PG series						
PG 产品系列 Product series	90 产品规格 Product specification	L1 级数 series	5 传动比 Gear ratio	P1 背隙 Back clearance	输出型式 Output type	
	64、90、110	L1=1级 L2=2级 L1= Level 1 L2= Level 2	L1: 4、5、7、10 L2: 16、20、25 28、35、40 50、70、100	P1=精密背隙 P2=标准背隙 P1= precise back clearance P2= standard back clearance	无=盘式输出 None = Disk output	电机制造商及规格型号。 也可以直接提供输出连接尺寸 Motor manufacturers and specifications. Output connection dimensions can also be supplied directly

PXR系列 / PXR series						
PXR 产品系列 Product series	90 产品规格 Product specification	L1 级数 series	10 传动比 Gear ratio	P1 背隙 Back clearance	输出型式 Output type	
	42、60、 90、120	L1=1级 L2=2级 L1= Level 1 L2= Level 2	L1: 3、4、5 7、8、10 14、20 L2: 25、30、35 40、50、70 100	P1=精密背隙 P2=标准背隙 P1= precise back clearance P2= standard back clearance	S1=光轴输出 无=带键输出 S1= optical axis output None = Output with key	电机制造商及规格型号。 也可以直接提供输出连接尺寸 Motor manufacturers and specifications. Output connection dimensions can also be supplied directly

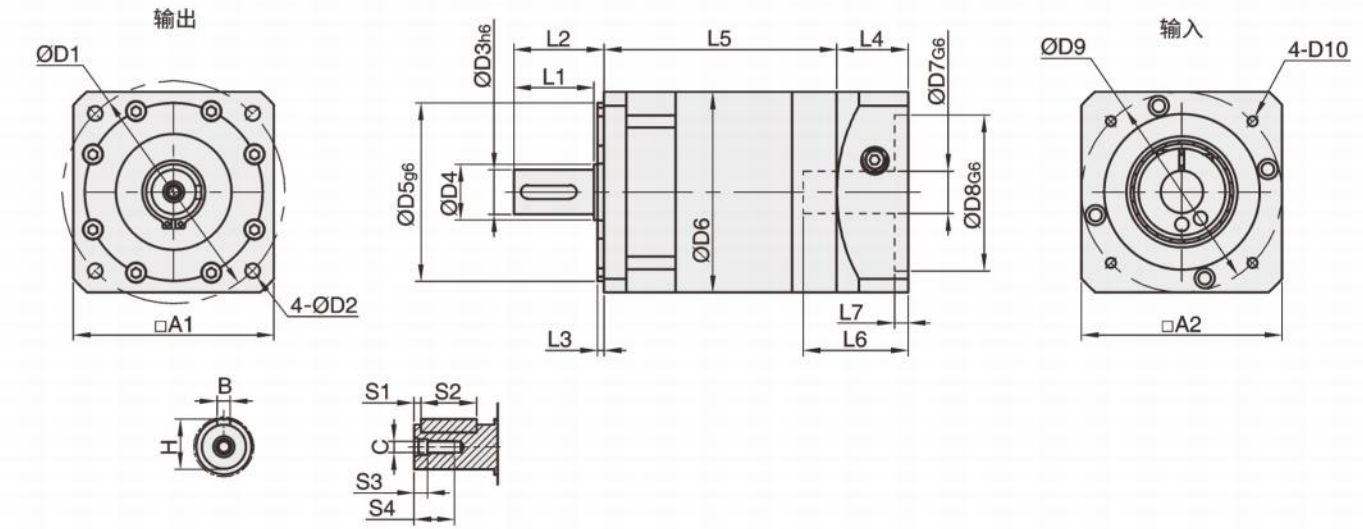
▶PRF系列行星减速机技术参数/PRF series planetary reducer technical parameters

规格 Technical parameter			PRF40	PRF60	PRF80	PRF90	PRF120	PRF160
	级数 Series	速比 Speed ratio						
额定扭矩 (Nm) T _N Rated torque (Nm) TN	L1	3	/	27	50	96	161	364
		4	16	40	90	122	210	423
		5	15	40	90	122	210	423
		7	12	34	48	95	170	358
		10	10	16	22	56	86	210
	L2	12		27	50	96	161	364
		15	/	27	50	96	161	364
		16	16	40	90	122	210	423
		20	15	40	90	122	210	423
		25	16	40	90	122	210	423
		28	16	40	90	122	210	423
		30	/	27	50	96	161	364
		35	12	40	90	122	210	423
		40	16	40	90	122	210	423
		50	15	40	90	122	210	423
		70	12	34	48	95	170	358
		100	10	16	22	56	86	210
最大扭矩 Maximum torque		Nm	1.5倍额定扭矩 1.5 times rated torque					
紧急制动扭矩 Emergency braking torque		Nm	2倍额定扭矩 2 times rated torque					
最大容许径向力 Maximum allowable radial force		N	185	240	400	450	1240	2250
最大容许轴向力 Maximum allowable axial force		N	150	220	420	430	1000	1500
抗扭刚性 Torsional rigidity		Nm/arcmin	0.7	1.8	4.7	4.85	11	35
最大输入转速 Maximum input speed		rpm	8000	8000	6000	6000	6000	4000
额定输入转速 Rated input speed		rpm	4500	4000	3500	3500	3500	3000
噪音 noise		dB	≤55	≤58	≤60	≤60	≤65	≤70
平均寿命 Mean life		h	20000					
满载效率 Full-load efficiency		%	L1≥96% L2≥94%					
防护等级 Class of protection		IP65						
工作温度 Operating temperature		90℃至-10℃						
重量 (kg)	L1		0.43	0.98	2.3	3.12	7.08	15.5
	L2		0.65	1.26	2.97	3.82	8.7	17

▶PRF系列行星减速机标准尺寸/PRF series planetary reducer standard size

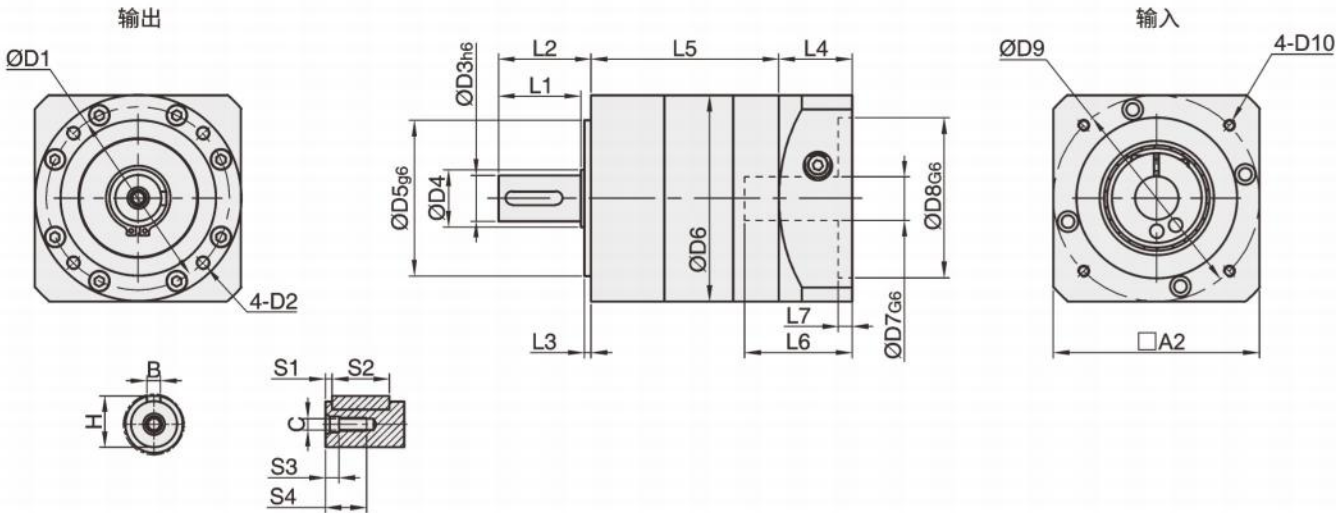


代号 机型 Designation Machine type	PRF-L1																										
	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	L1	L2	L3	L4	L5	L6	L7	A1	A2	S1	S2	S3	S4	B	H	C	
PRF40-L1	50	3.5	10	15	35	42	8	30	46	M4	23	26	2	20	42	27	3.5	42	42	2	16	3	9	3	11.2	M3	
PRF60-L1	70	5.5	14	17	50	60	14	50	70	M4	30	35	3	21	56	31	4	60	60	3	20	5	18	5	16	M5	
PRF80-L1	90	6.5	20	25	60	80	19	70	90	M5	36	40.5	3	38	60.5	42	5	80	80	4	25	6	18	6	22.5	M6	
PRF90-L1	100	6.5	20	25	80	90	19	70	90	M5	36	40.5	3	32	77.5	47	6	90	90	3	25	6	18	6	22.5	M6	
PRF120-L1	130	8.5	25	35	110	120	22	110	145	M8	50	55.5	4	50	96.5	57.5	10	120	120	5	40	8	25	8	28	M10	
PRF160-L1	185	11	40	55	130	165	35	114.3	200	M12	80	87	5	62	132	86	10	165	176	5	65	8	36	12	43	M16	
客户定制 Customer customization																											

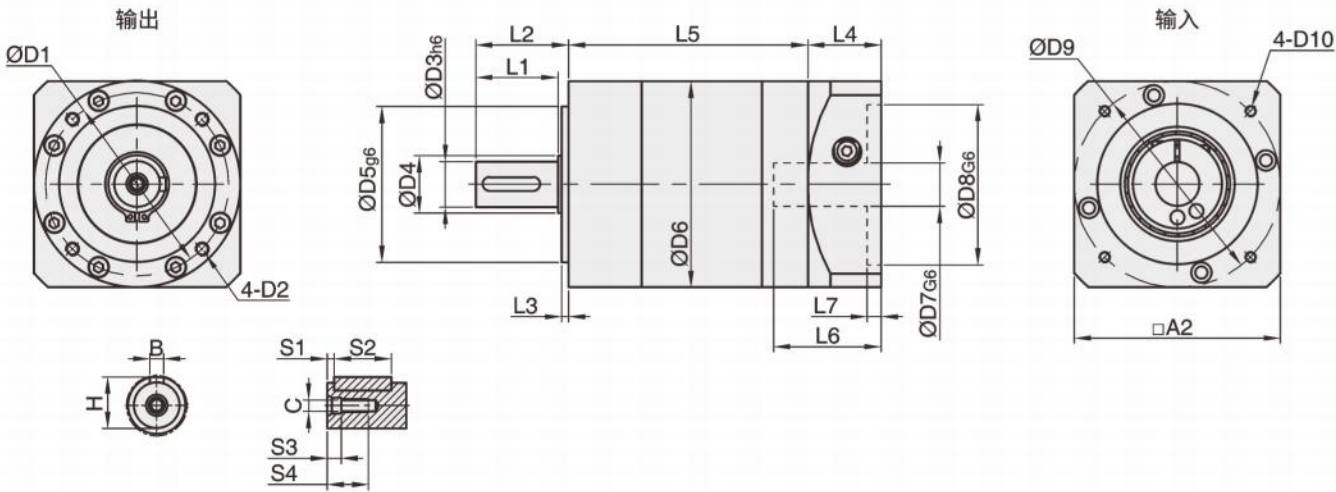


代号 机 型 Machine type	PRF-L2																										
	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	L1	L2	L3	L4	L5	L6	L7	A1	A2	S1	S2	S3	S4	B	H	C	
PRF40-L2	50	3.5	10	15	35	42	8	30	46	M4	23	26	2	20	57	27	3.5	42	42	2	16	3	9	3	11.2	M3	
PRF60-L2	70	5.5	14	17	50	60	14	50	70	M4	30	35	3	21	73.5	31	4	60	60	3	20	5	18	5	16	M5	
PRF80-L2	90	6.5	20	25	60	80	19	70	90	M5	36	40.5	3	38	80.5	42	5	80	80	4	25	6	18	6	22.5	M6	
PRF90-L2	100	6.5	20	25	80	90	19	70	90	M5	36	40.5	3	32	97.5	47	6	90	90	3	25	6	18	6	22.5	M6	
PRF120-L2	130	8.5	25	35	110	120	22	110	145	M8	50	55.5	4	50	129	57.5	10	120	120	5	40	8	25	8	28	M10	
PRF160-L2	185	11	40	55	130	165	35	114.3	200	M12	80	87	5	62	173	86	10	165	176	5	65	8	36	12	43	M16	
客户定制 Customer customization																											

▶PRL系列行星减速机标准尺寸/PRL series planetary reducer standard size



代号 机型号 Designation Machine type	PRL-L1																										
	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	L1	L2	L3	L4	L5	L6	L7	A2	S1	S2	S3	S4	B	H	C		
PRL40-L1	34	M4	10	15	26	42	8	30	46	M4	23	26	2	20	42	27	3.5	42	2	16	3	9	3	11.2	M3		
PRL60-L1	52	M5	14	17	40	60	14	50	70	M4	30	35	3	21	56	31	4	60	3	20	5	18	5	16	M5		
PRL80-L1	70	M6	20	25	60	80	19	70	90	M5	36	40.5	3	38	60.5	42	5	80	4	25	6	18	6	22.5	M6		
PRL90-L1	80	M6	20	25	68	90	19	70	90	M5	36	40.5	3	32	77.5	47	6	90	3	25	6	18	6	22.5	M6		
PRL120-L1	100	M10	25	35	80	120	22	110	145	M8	50	55.5	4	50	96.5	57.5	10	120	5	40	8	25	8	28	M10		
PRL160-L1	145	M12	40	55	130	165	35	114.3	200	M12	80	87	5	62	132	86	10	176	5	65	8	36	12	43	M16		
客户定制 Customer customization																											

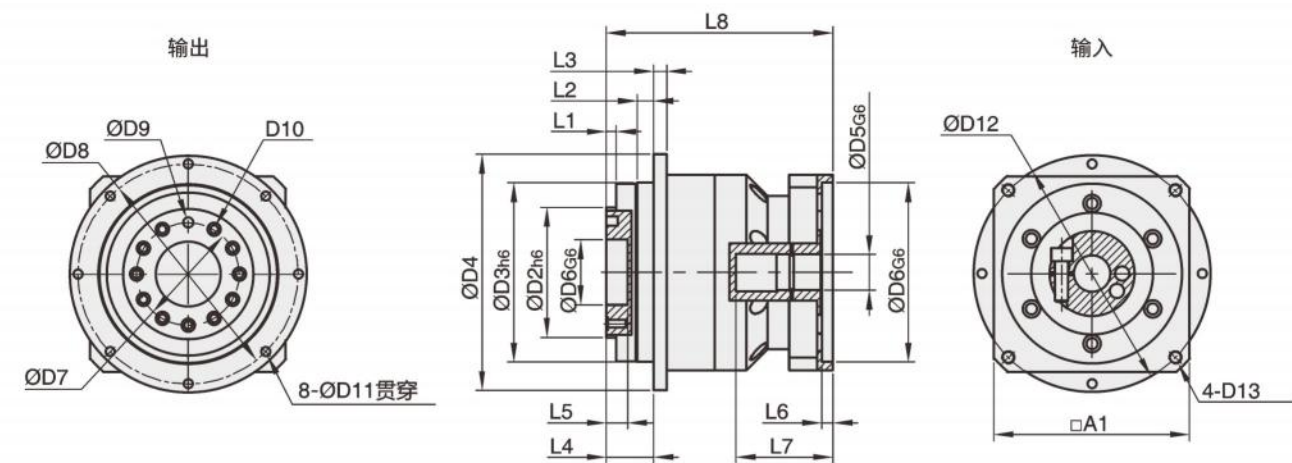


代号 机型号 Designation Machine type	PRL-L2																										
	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	L1	L2	L3	L4	L5	L6	L7	A2	S1	S2	S3	S4	B	H	C		
PRL40-L2	34	M4	10	15	26	42	8	30	46	M4	23	26	2	20	57	27	3.5	42	2	16	3	9	3	11.2	M3		
PRL60-L2	52	M5	14	17	40	60	14	50	70	M4	30	35	3	21	73.5	31	4	60	3	20	5	18	5	16	M5		
PRL80-L2	70	M6	20	25	60	80	19	70	90	M5	36	40.5	3	38	80.5	42	5	80	4	25	6	18	6	22.5	M6		
PRL90-L2	80	M6	20	25	68	90	19	70	90	M5	36	40.5	3	32	97.5	47	6	90	3	25	6	18	6	22.5	M6		
PRL120-L2	100	M10	25	35	80	120	22	110	145	M8	50	55.5	4	50	129	57.5	10	120	5	40	8	25	8	28	M10		
PRL160-L2	145	M12	40	55	130	165	35	114.3	200	M12	80	87	5	62	173	86	10	176	5	65	8	36	12	43	M16		
客户定制 Customer customization																											

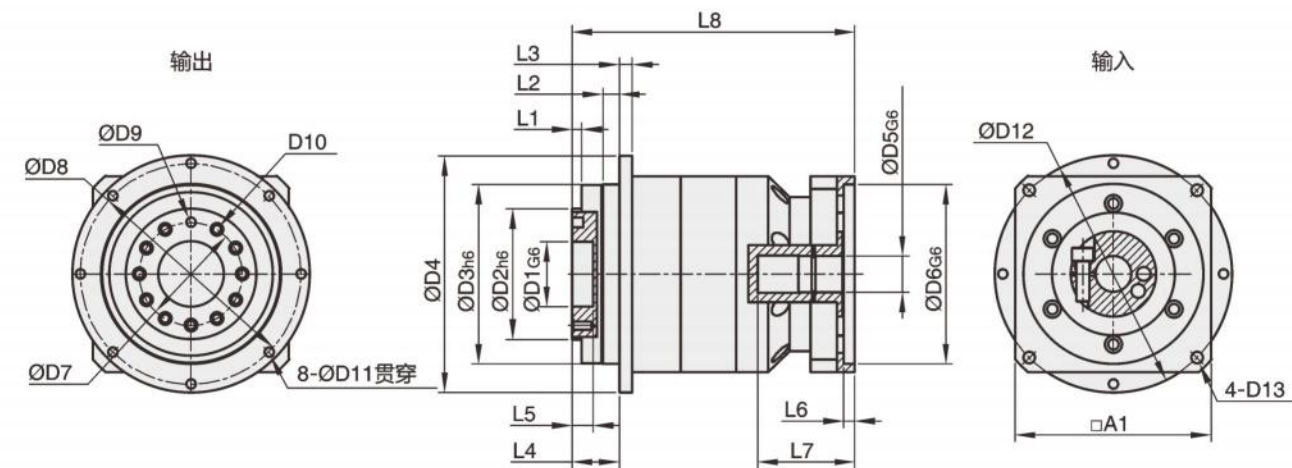
▶PX系列行星减速机技术参数/PX series planetary reducer technical parameters

Specification 规格				PX42	PX60	PX90	PX120
技术参数 Technical parameter							
最大扭矩	Maximum torque	Nm		1.5倍额定扭矩		1.5 times rated torque	
紧急制动扭矩	Emergency braking torque	Nm		2.5倍额定扭矩		2.5 times rated torque	
最大容许径向力	Maximum allowable radial force	N		780	1530	3250	6700
最大容许轴向力	Maximum allowable axial force	N		390	630	1300	3000
抗扭刚性	Torsional rigidity	Nm/arcmin		2.5	6	12	23
最大输入转速	Maximum input speed	rpm		8000	8000	8000	8000
额定输入转速	Rated input speed	rpm		4000	4000	3000	3000
噪音	Noise	dB		≤56	≤58	≤60	≤65
平均寿命	Mean life	h		20000			
满载效率	Full-load efficiency	%		L1≥95% L2≥90%			
回程间隙 Return clearance	P1	L1	arcmin	≤3	≤3	≤3	≤3
		L2	arcmin	≤5	≤5	≤5	≤5
	P2	L1	arcmin	≤5	≤5	≤5	≤5
		L2	arcmin	≤7	≤7	≤7	≤7
转动惯量 Moment of inertia	L1	3	Kg.cm ²	/	0.16	0.61	3.25
		4	Kg.cm ²	0.03	0.14	0.48	2.74
		5	Kg.cm ²	0.03	0.13	0.47	2.71
		7	Kg.cm ²	0.03	0.13	0.45	2.62
		8	Kg.cm ²	0.03	0.13	0.45	2.60
		10	Kg.cm ²	0.03	0.13	0.40	2.57
	L2	12	Kg.cm ²	/	0.13	0.45	0.45
		15	Kg.cm ²	/	0.13	0.45	0.45
		20	Kg.cm ²	0.03	0.13	0.45	0.45
		25	Kg.cm ²	0.03	0.13	0.45	0.40
		28	Kg.cm ²	0.03	0.13	0.45	0.45
		30	Kg.cm ²	/	0.13	0.45	0.45
		35	Kg.cm ²	0.03	0.13	0.40	0.40
		40	Kg.cm ²	0.03	0.13	0.45	0.45
		50	Kg.cm ²	0.03	0.13	0.40	0.40
		70	Kg.cm ²	0.03	0.13	0.40	0.40
		100	Kg.cm ²	0.03	0.13	0.40	0.40

▶PG系列行星减速机标准尺寸/PG series planetary reducer standard size

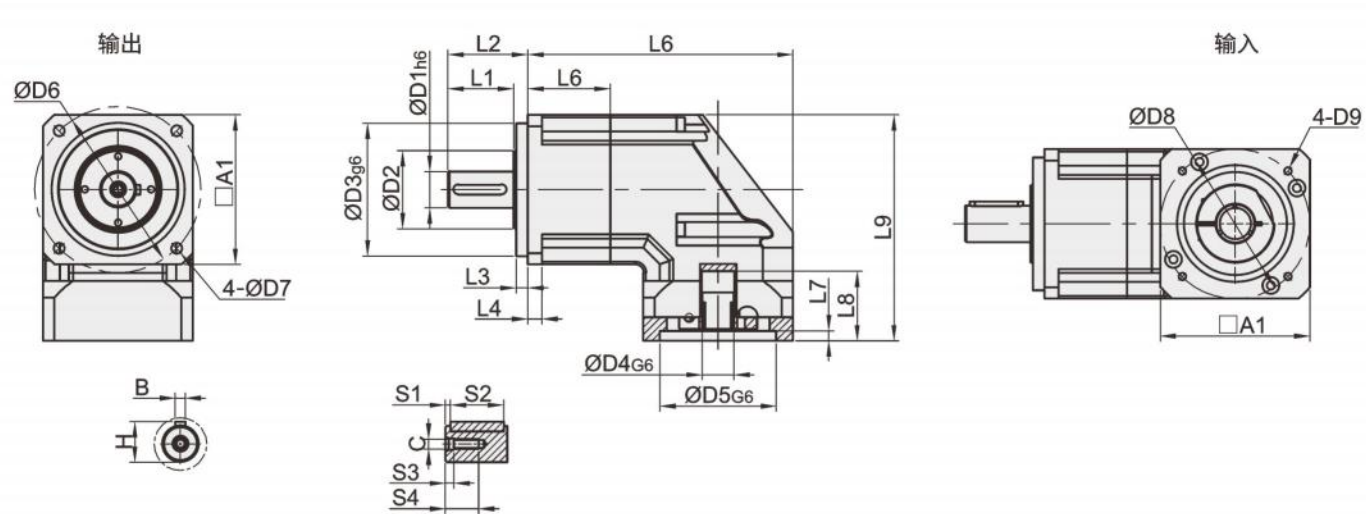


代号 机型号 Designation Machine type	PG-L1																							
	D1	D2	D3	D4	D5	D6	D7	D8	D9		D10		D11	D12	D13	L1	L2	L3	L4	L5	L6	L7	L8	A1
PG64-L1	20	40	64	86	14	50	31.5	79	七孔一销 5		7-M5		4.5	70	M4	3	7	4	19.5	8	4	32.5	81	60
PG90-L1	31.5	63	90	118	19	70	50	109	七孔一销 6		7-M6		5.5	90	M5	6	10	7	30	12	6	43	105.5	90
PG110-L1	40	80	110	145	22	110	63	135	十一孔一销 6		11-M6		5.5	145	M8	6	14.5	8	29	13	7	59.5	139	120
客户定制 Customer customization																								

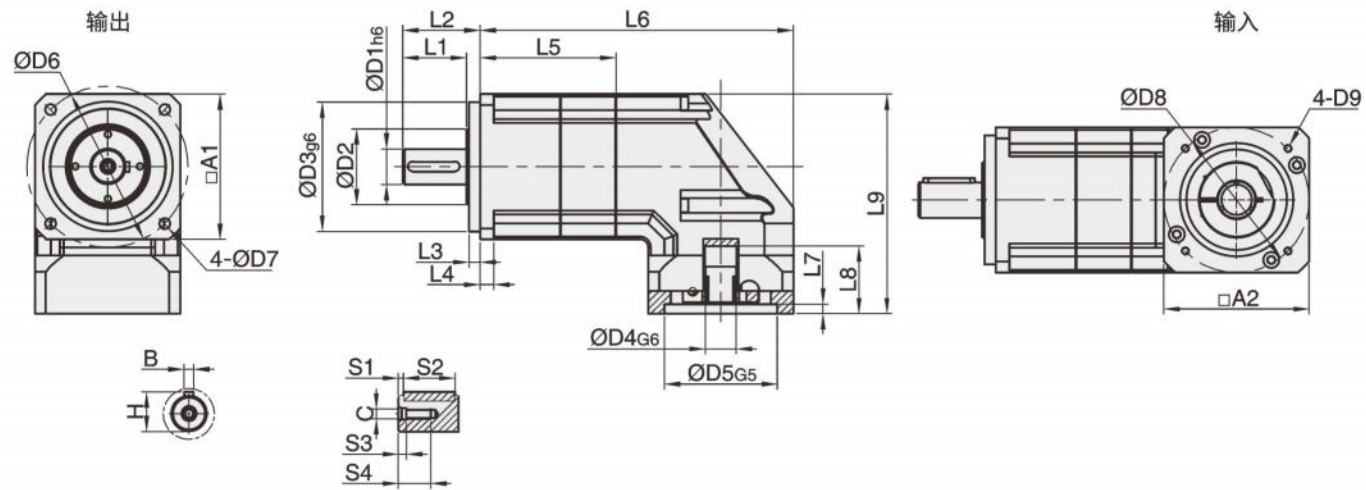


代号 机型号 Designation Machine type	PG-L2																							
	D1	D2	D3	D4	D5	D6	D7	D8	D9		D10		D11	D12	D13	L1	L2	L3	L4	L5	L6	L7	L8	A1
PG64-L2	20	40	64	86	14	50	31.5	79	七孔一销 5		7-M5		4.5	70	M4	3	7	4	19.5	8	4	32.5	104.5	60
PG90-L2	31.5	63	90	118	19	70	50	109	七孔一销 6		7-M6		5.5	90	M5	6	10	7	30	12	6	43	135	90
PG110-L2	40	80	110	145	22	110	63	135	十一孔一销 6		11-M6		5.5	145	M8	6	14.5	8	29	13	7	59.5	173	120
客户定制 Customer customization																								

▶PXR系列行星减速机标准尺寸/PXR series planetary reducer standard size



代号 机型号 Designation Machine type	PXR-L1																										
	D1	D2	D3	D4	D5	D6	D7	D8	D9	L1	L2	L3	L4	L5	L6	L7	L8	L9	A1	A2	S1	S2	S3	S4	B	H	C
PXR42-L1	13	19.5	35	8	30	50	3.5	46	M4	19.5	26	5.5	4	23.8	78.8	3.5	28	71.1	42.6	42.6	2	16	4	12	5	15	M4
PXR60-L1	16	28.9	50	14	50	70	5.5	70	M4	29	37	7	8	30.5	106.9	4	34	105	60	60	3	20	5	15	5	18	M5
PXR90-L1	22	48.5	80	19	70	100	6.5	90	M5	39.5	48	7	8.5	49.5	159.5	6	42	136	90	90	3	32	5	20	6	24.5	M6
PXR120-L1	32	58.6	110	22	110	130	8.5	145	M8	50	62	10	12	65	210	7	58	189.5	120	120	5	40	6	25	10	35	M12
客户定制 Customer customization																											



代号 机型号 Designation Machine type	PXR-L2																										
	D1	D2	D3	D4	D5	D6	D7	D8	D9	L1	L2	L3	L4	L5	L6	L7	L8	L9	A1	A2	S1	S2	S3	S4	B	H	C
PXR42-L2	13	19.5	35	8	30	50	3.5	46	M4	19.5	26	5.5	4	45	100	3.5	28	71.1	42.6	42.6	2	16	4	12	5	15	M4
PXR60-L2	16	28.9	50	14	50	70	5.5	70	M4	29	37	7	8	58	134.4	4	34	105	60	60	3	20	5	15	5	18	M5
PXR90-L2	22	48.5	80	19	70	100	6.5	90	M5	39.5	48	7	8.5	84	194	6	42	136	90	90	3	32	5	20	6	24.5	M6
PXR120-L2	32	58.6	110	22	110	130	8.5	145	M8	50	62	10	12	116	261	7	58	189.5	120	120	5	40	6	25	10	35	M12
客户定制 Customer customization																											

中空旋转平台/Hollow rotating platform



PTN系列/PTN Series

- 通用系列。输入端连接方式高度灵活，可搭载各种厂家的伺服电机、步进电机、行星减速机以及转角器；
- 旋转面可直接连接工作零件，提升安装方便性；
- 高精度，回程间隙0.5arcmin；
- 中空式的设计，配线配管都方便使用。
- Universal series. The input connection mode is highly flexible, and it can be equipped with servo motors, stepper motors, planetary reducers and turbers from various manufacturers;
- The rotating surface can be directly connected to the working parts to improve the installation convenience;
- High precision, return clearance 0.5arcmin;
- Hollow design, wiring and piping are easy to use.

▲型号:060、085、130、200、280、450
▲比数:5、10、18
▲重复定位精度:±15arcsec

▲ Model :060, 085, 130, 200, 280, 450
▲ Ratio :5, 10, 18
▲ Repeated positioning accuracy : ± 15arcsec

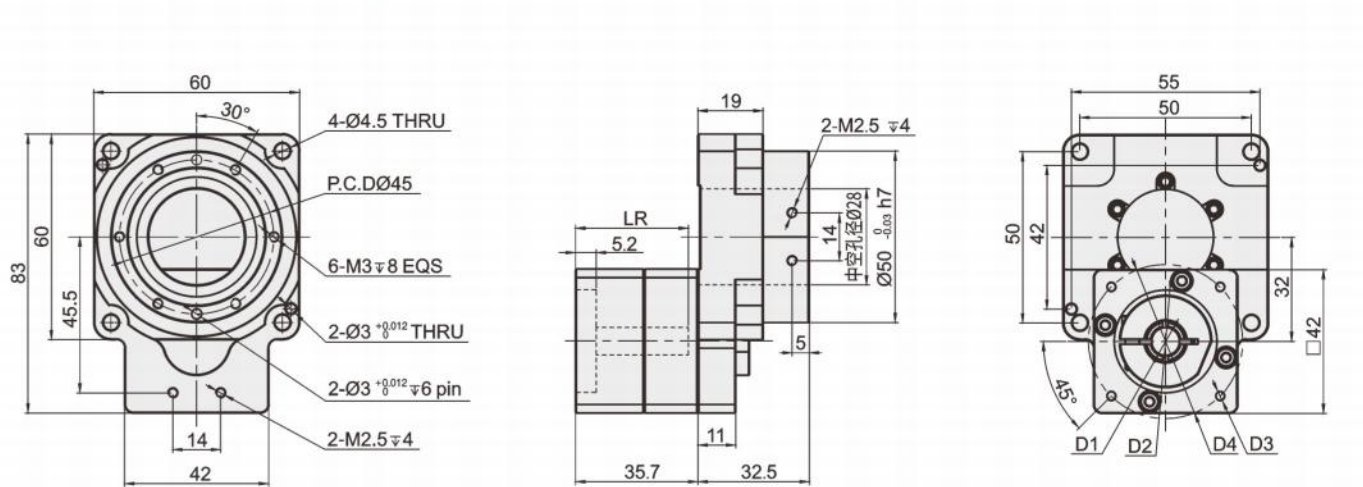
PTN060系列中空旋转平台适配马达/PTN060 series hollow rotary platform adaptor motor

适配马达 Adaptive motor			规格 Specification	步进马达/Stepper motor	42型	
				伺服马达/servomotor	50W AC	100W AC
旋转平台轴承	Rotary platform bearing	—	交叉滚子轴承 Cross roller bearing			
减速比	Reduction ratio	—	1:5		1:10	
容许转矩	Allowable torque	Nm	5		7.5	
转动惯量	Moment of inertia	kg•m ²	4300X10 ⁻⁶			
出力允许转速	Allowable output speed	rpm	200			
容许惯性载重(倾侧力矩)	Allowable inertial load	Nm	10			
容许轴向载重	Allowable axial load	N	250			
回程间隙	Return clearance	arcmin	≤1			
重复定位精度	Repeated positioning accuracy	arcsec	±15			
旋转平台台面偏差	Deflection of rotating platform surface	mm	0.01			
旋转平台平行度	Rotating platform parallelism	mm	0.02			
旋转平台同心度	Rotating platform concentricity	mm	0.01			
精度寿命	Precision life	h	20000			
保护等级	Protection class	—	IP40			
重量	Weight	Kg	0.6			

PTN060系列中空旋转平台技术参数/Technical parameters of PTN060 series hollow rotating platform

应用实例技术参数 Application example technical parameters		规格 Specification	直结式行星减速机/Straight junction planetary reducer		直角式转角器/ Right Angle corner
			i	PX42	DRS42
额定输出扭矩 T2N Rated output torque T2N	Nm	2	2	—	15
		3	3	55	15
		4	4	50	—
		5	5	60	—
		7	7	50	—
		10	10	40	—
急停扭矩	Scram torque	Nm	2.5倍于T _{2N} 2.5 times T _{2N}		2.5倍于T _{2N} 2.5 times T _{2N}
额定输入转速	Rated input speed	rpm	5000		1500
最大输入转速	Maximum input speed	rpm	10000		10000
回程间隙	Return clearance	Nm	≤3		≤3
抗扭刚性	Torsional rigidity	Nm/arcmin	7		1.2
容许径向力	Allowable radial force	N	1530		300
容许轴向力	Allowable axial force	N	630		150
使用寿命	Service life	Hr	20000(连续运转降低使用寿命50%) 20000(Continuous operation reduces service life by 50%)		
效率	Efficiency	%	96		
工作温度	Operating temperature	℃	-15℃~+90℃		
防护等级	Class of protection	—	IP 65		
润滑	Oiling	—	合成润滑油脂 Synthetic lubricating oil		
噪音	Noise	dB(A)	≤58		≤62

PTN060系列中空旋转平台标准尺寸/PTN060 series hollow rotary platform standard size

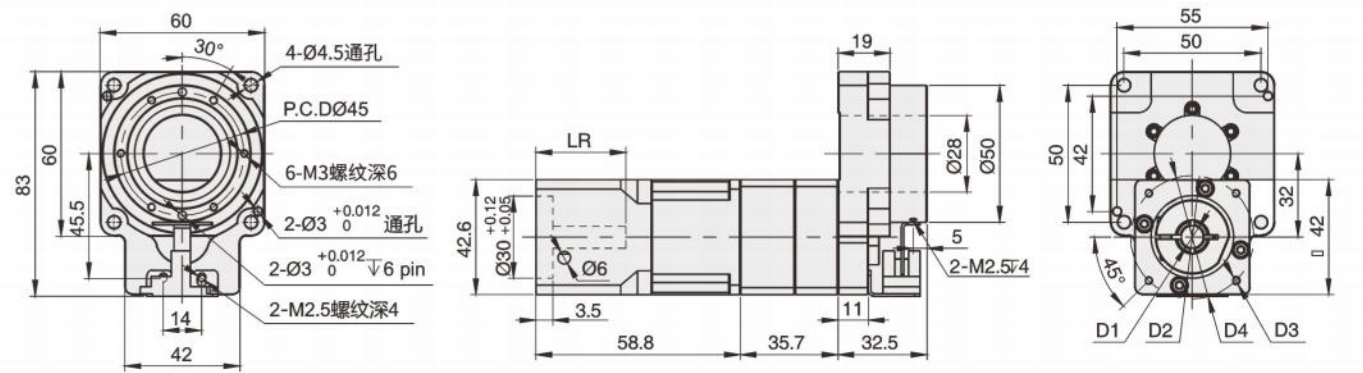
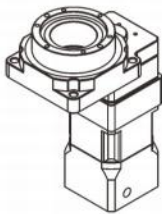


① 系列规格 Series specification	② 传动比 Gear ratio	③ 输入安装尺寸/Enter mounting dimensions				
		D1	D2	D3	D4	LR
PTN060	5 10	8	30	M3	45	30
		8	30	M4	46	30
		5	22	3.5	43.8	31.7

PTN060应用范例(订购时请提供马达法兰尺寸)

直结式行星减速机 PX42(单位mm)

PTN060 Application Example (Please provide motor flange size when ordering)
Linear planetary reducer PX42(unit mm)



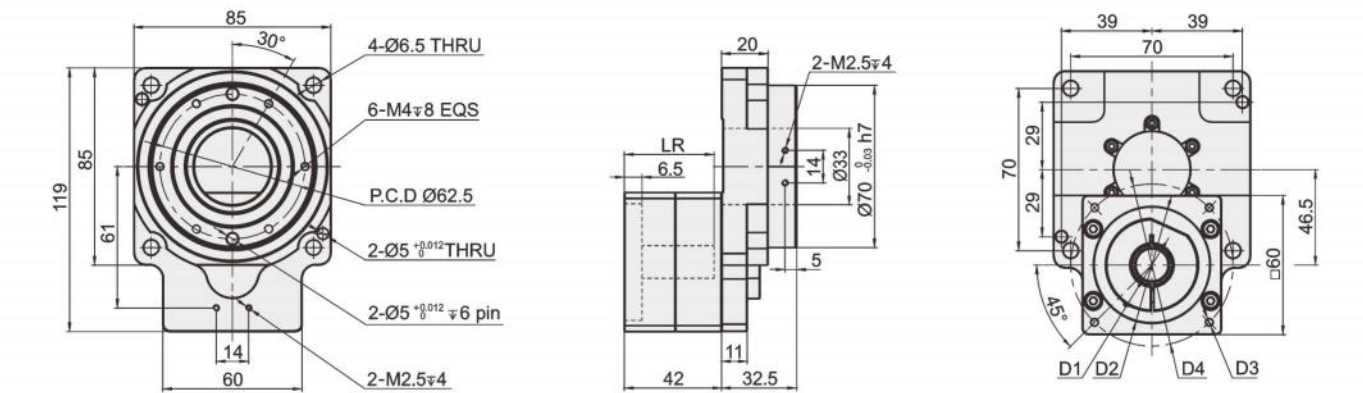
►PTN085系列中空旋转平台适配马达/PTN085 series hollow rotary platform adaptor motor

适配马达 Adaptive motor		规格 Gauge lattice	步进马达/Stepper motor		42型/Type 42		57型/Type 57	
			伺服马达/Servomotor		50W AC	100W AC	200W AC	400W AC
旋转平台轴承	Rotary platform bearing	—	交叉滚子轴承 Cross roller bearing					
减速比	Reduction ratio	—	1:18	1:5/1:10	1:18		1:5/1:10	
容许转矩	Allowable torque	Nm	9	20	9		20	
转动惯量	Moment of inertia	kg•m ²	2500X10 ⁻⁶					
允许转速	Allowable speed	rpm	200					
容许惯性载重(倾侧力矩)	Allowable inertial load	Nm	18					
容许轴向载重	Allowable axial load	N	500					
回程间隙	Return clearance	arcmin	≤1					
重复定位精度	Repeated positioning accuracy	arcsec	±15					
旋转平台台面偏差	Deflection of rotating platform surface	mm	0.01					
旋转平台平行度	Rotating platform parallelism	mm	0.02					
旋转平台同心度	Rotating platform concentricity	mm	0.01					
精度寿命	Precision life	h	20000					
保护等级	Protection class	—	IP40					
重量	weight	Kg	1.2					

►PTN085系列中空旋转平台技术参数/Technical parameters of PTN085 series hollow rotating platform

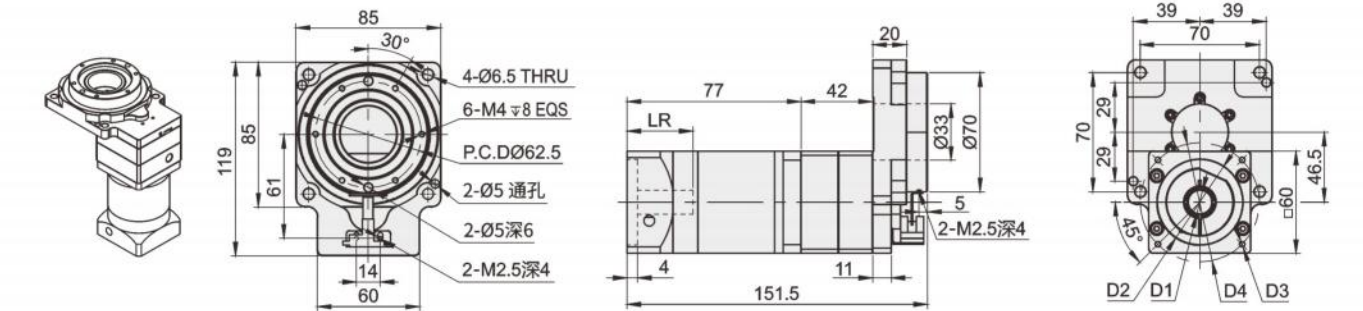
应用实例技术参数 Application example technical parameters			规格 Specification	直结式行星减速机/ Straight junction planetary reducer		直角式转角器/Right Angle corner	
			i	PRF60	PX60	i	DRS60
额定输出扭矩 T2N Rated output torque T2N		Nm	3	18	55	1	30
			4	36	50	2	30
			5	40	60	3	30
			7	20	50	5	30
			10	12	40	—	—
急停扭矩	Scram torque	Nm	2倍于T _{2N} 2times T _{2N}		2.5倍于T _{2N} 2.5 times T _{2N}	2倍于T _{2N} 2 times T _{2N}	
额定输入转速	Rated input speed	rpm	4000		5000	1000	
最大输入转速	Maximum input speed	rpm	8000		10000	2000	
回程间隙	Return clearance	Nm	≤10		≤3	≤3	
转动惯量	Moment of inertia	kg•cm ²	—		—	0.06	
抗扭刚性	Torsional rigidity	Nm/arcmin	1.8		7	1.5	
容许径向力	Allowable radial force	N	240		1530	500	
容许轴向力	Allowable axial force	N	220		765	200	
使用寿命	Service life	Hr	20000(连续运转降低使用寿命50%) 20000(Continuous operation reduces service life by 50%)				
效率	Efficiency	%	96				
工作温度	Operating temperature	℃	-15℃~-+90℃				
防护等级	Class of protection	—	IP 65				
润滑	Oiling	—	合成润滑油脂 Synthetic lubricating oil				
噪音	Noise	dB(A)	≤61		≤58	≤65	

►PTN085系列中空旋转平台标准尺寸/PTN085 series hollow rotary platform standard size

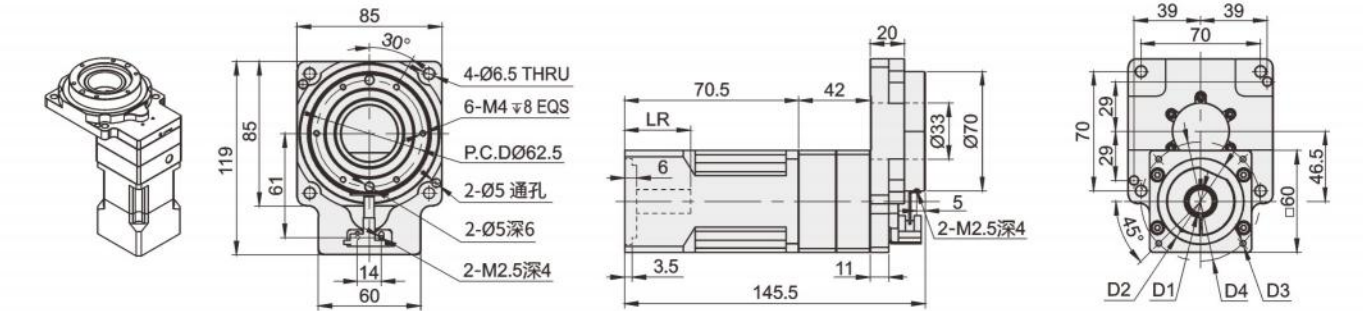


1 系列规格 Series specification	2 传动比 Gear ratio	3 输入安装尺寸/Enter mounting dimensions				
		D1	D2	D3	D4	LR
PTN085	5 10	14	50	M4	70	34.5
		14	50	M5	70	34.5
		8	38.1	M4	66.7	34.5
	18	8	30	M3	45	30
		8	30	M4	46	30
		5	22	3.5	43.8	30
		8	38.1	M4	66.7	34.5

PTN085应用范例(订购时请提供马达法兰尺寸)
直结式行星减速机PRF60 (单位mm)
PTN085 Application Example (Please provide motor flange size when ordering)
Linear planetary reducer PRF60 (unit mm)



直结式行星减速机 PX60(单位mm)
Linear planetary reducer PX60(unit mm)



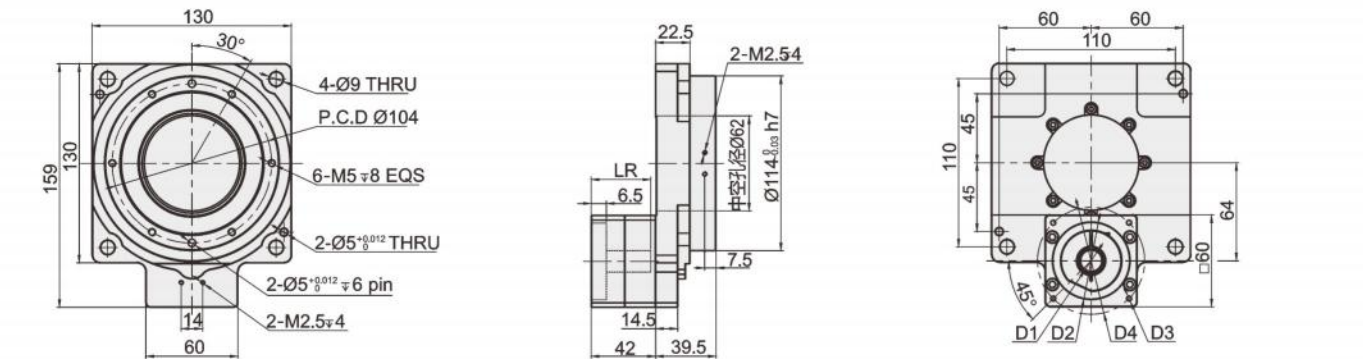
►PTN130系列中空旋转平台适配马达/PTN130 series hollow rotary platform adaptor motor

适配马达 Adaptive motor		规格 Specification	步进马达/ Stepper motor	57型/Type 57	
			伺服马达/ servomotor	200W AC	400W AC
旋转平台轴承	Rotary platform bearing	—	交叉滚子轴承 Cross roller bearing		
减速比	Reduction ratio	—	1:10	1:18	
容许转矩	Allowable torque	Nm	30	18	
转动惯量	Moment of inertia	kg·m ²	15870X10 ⁻⁶		
允许转速	Allowable speed	rpm	200		
容许惯性载重(倾侧力矩)	Allowable inertial load	Nm	45		
容许轴向载重	Allowable axial load	N	2000		
回程间隙	Return clearance	arcmin	≤1		
重复定位精度	Repeated positioning accuracy	arcsec	± 15		
旋转平台台面偏差	Deflection of rotating platform surface	mm	0.01		
旋转平台平行度	Rotating platform parallelism	mm	0.02		
旋转平台同心度	Rotating platform concentricity	mm	0.01		
精度寿命	Precision life	h	20000		
保护等级	Protection class	—	IP40		
重量	weight	Kg	2.5		

►PTN130系列中空旋转平台技术参数/Technical parameters of PTN130 series hollow rotating platform

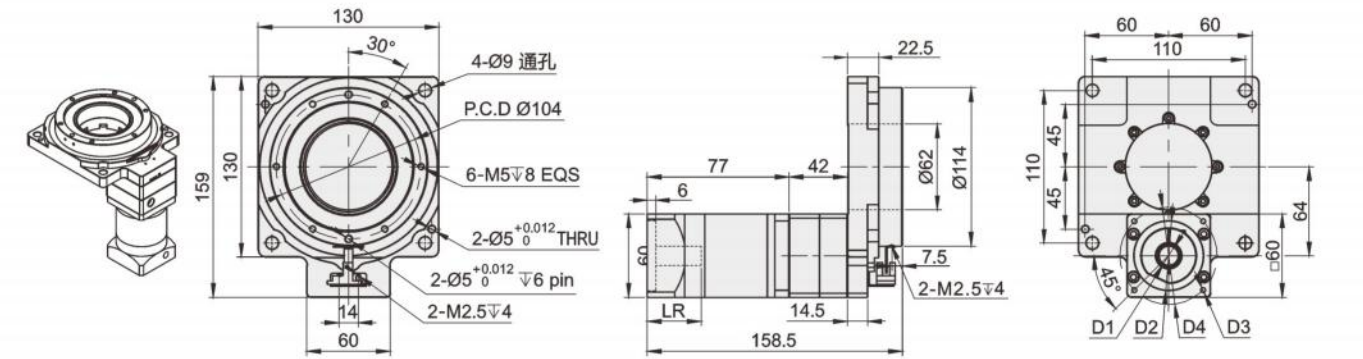
应用实例技术参数 Application example technical parameters			规格 Specification	直结式行星减速机/ Straight junction planetary reducer		直角式转角器/Right Angle corner	
			i	PRF60	PX60	i	DRS60
额定输出扭矩 T2N Rated output torque T2N	Nm	3	18	55	—	30	
		4	36	50	2	30	
		5	40	60	3	30	
		7	20	50	5	30	
		10	12	40	—	—	
急停扭矩	Scram torque	Nm	2倍于T _{2N} 2times T _{2N}		2.5倍于T _{2N} 2.5 times T _{2N}	2倍于T _{2N} 2 times T _{2N}	
额定输入转速	Rated input speed	rpm	4000		5000	1000	
最大输入转速	Maximum input speed	rpm	8000		10000	2000	
回程间隙	Return clearance	Nm	≤10		≤3	≤3	
转动惯量	Moment of inertia	kg•cm ²	—		—	0.06	
抗扭刚性	Torsional rigidity	Nm/arcmin	1.8		7	1.5	
容许径向力	Allowable radial force	N	240		1530	500	
容许轴向力	Allowable axial force	N	220		765	200	
使用寿命	Service life	Hr	20000(连续运转降低使用寿命50%) 20000(Continuous operation reduces service life by 50%)				
效率	Efficiency	%	96				
工作温度	Operating temperature	℃	-15℃~+90℃				
防护等级	Class of protection	—	IP 65				
润滑	Oiling	—	合成润滑油脂 Synthetic lubricating oil				
噪音	Noise	dB(A)	≤61		≤58	≤65	

►PTN130系列中空旋转平台标准尺寸/PTN130 series hollow rotary platform standard size

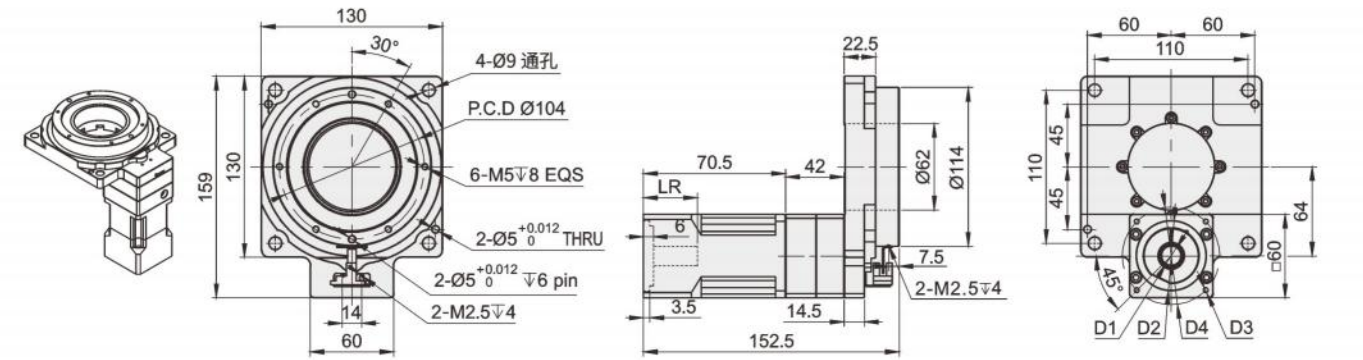


① 系列规格 Series specification	② 传动比 Gear ratio	③ 输入安装尺寸/Enter mounting dimensions				
		D1	D2	D3	D4	LR
PTN130	10	14	50	M4	70	34.5
	18	14	50	M5	70	34.5
		8	38.1	M4	66.7	34.5
	10	14	73	M6	98.4	47

PTN130应用范例(订购时请提供马达法兰尺寸)
直结式行星减速机PRF60 (单位mm)
PTN130 Application Example (Please provide motor flange size when ordering)
Linear planetary reducer PRF60 (unit mm)



直结式行星减速机 PX60(单位mm)
Linear planetary reducer PX60(unit mm)



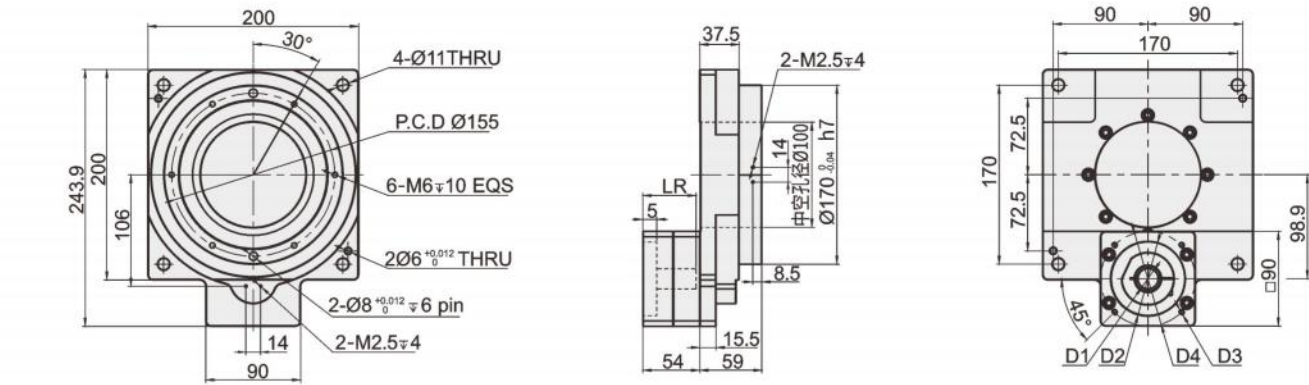
▶PTN200系列中空旋转平台适配马达/PTN200 series hollow rotary platform adaptor motor

适配马达		规格	步进马达/Stepper motor	86型/Type 86
Adaptive motor		Specification	伺服马达/servomotor	750W AC
旋转平台轴承	Rotary platform bearing	—	交叉滚子轴承 Cross roller bearing	
减速比	Reduction ratio	—	1:10	1:18
容许转矩	Allowable torque	Nm	65	50
转动惯量	Moment of inertia	kg·m ²	108150X10 ⁻⁶	
允许转速	Allowable speed	rpm	200	
容许惯性载重(倾侧力矩)	Allowable inertial load	Nm	80	
容许轴向载重	Allowable axial load	N	4000	
回程间隙	Return clearance	arcmin	≤1	
重复定位精度	Repeated positioning accuracy	arcsec	± 15	
旋转平台台面偏差	Deflection of rotating platform surface	mm	0.01	
旋转平台平行度	Rotating platform parallelism	mm	0.03	
旋转平台同心度	Rotating platform concentricity	mm	0.01	
精度寿命	Precision life	h	20000	
保护等级	Protection class	—	IP40	
重量	weight	Kg	8.0	

▶PTN200系列中空旋转平台技术参数/Technical parameters of PTN200 series hollow rotating platform

应用实例技术参数 Application example technical parameters			规格 Specification	直结式行星减速机/ Straight junction planetary reducer		直角式转角器/Right Angle corner	
			i	PRF80	PA90	i	DRS90
额定输出扭矩 T2N Rated output torque T2N	Nm	3	40	130	1	60	
		4	110	140	2	60	
		5	90	160	3	60	
		7	22	140	5	60	
		10	22	100	—	—	
急停扭矩	Scram torque	Nm	2倍于T _{2N} 2times T _{2N}		2.5倍于T _{2N} 2.5 times T _{2N}	2倍于T _{2N} 2 times T _{2N}	
额定输入转速	Rated input speed	rpm	3500		4000	1000	
最大输入转速	Maximum input speed	rpm	6000		8000	2000	
回程间隙	Return clearance	Nm	≤10		≤3	≤3	
转动惯量	Moment of inertia	kg•cm ²	—		—	0.4	
抗扭刚性	Torsional rigidity	Nm/arcmin	4.7		14	5	
容许径向力 ⁴	Allowable radial force ⁴	N	400		3250	1200	
容许轴向力 ⁴	Allowable axial force ⁴	N	420		1625	500	
使用寿命	Service life	Hr	20000(连续运转降低使用寿命50%) 20000(Continuous operation reduces service life by 50%)				
效率	Efficiency	%	96				
工作温度	Operating temperature	℃	-15℃~+90℃				
防护等级	Class of protection	—	IP 65				
润滑	Oiling	—	合成润滑油脂 Synthetic lubricating oil				
噪音	Noise	dB(A)	≤63		≤60	≤65	

▶PTN200系列中空旋转平台标准尺寸/PTN200 series hollow rotary platform standard size



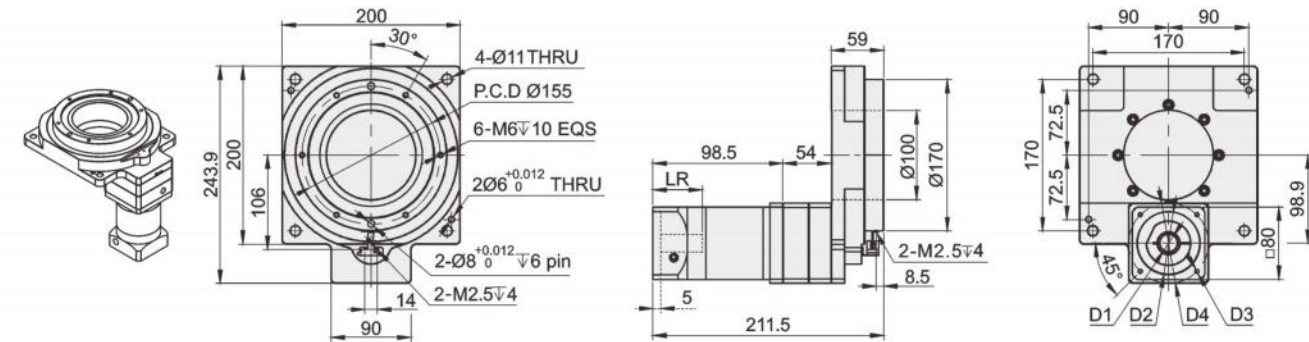
① 系列规格 Series specification	② 传动比 Gear ratio	③ 输入安装尺寸/Enter mounting dimensions				
		D1	D2	D3	D4	LR
PTN200	10 18	19	70	M5	90	47
		19	70	M6	90	47
		14	73	M6	98.4	47
		14	60	M6	98.4	47

PTN200应用范例(订购时请提供马达法兰尺寸)

直结式行星减速机PRF80 (单位mm)

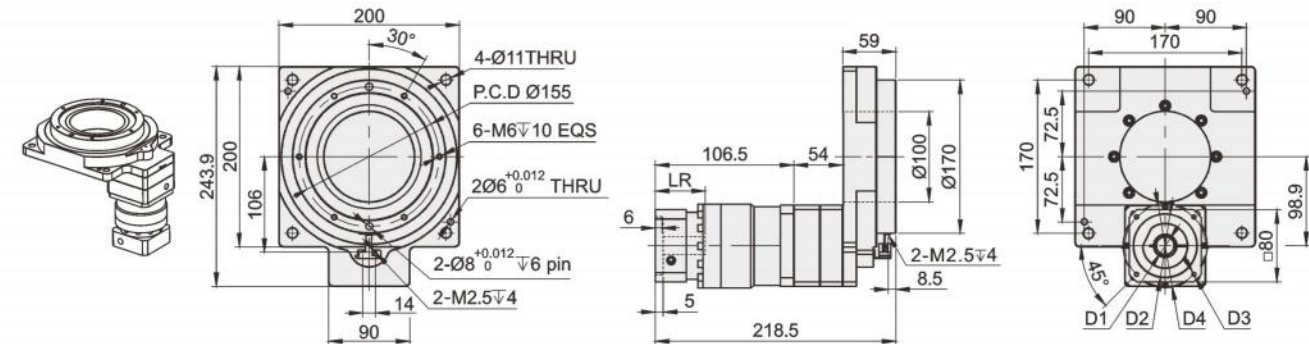
PTN200 Application Example (Please provide motor flange size when ordering)

Linear planetary reducer PRF80 (unit mm)



直结式行星减速机 PA90(单位mm)

Linear planetary reducer PA90(unit mm)



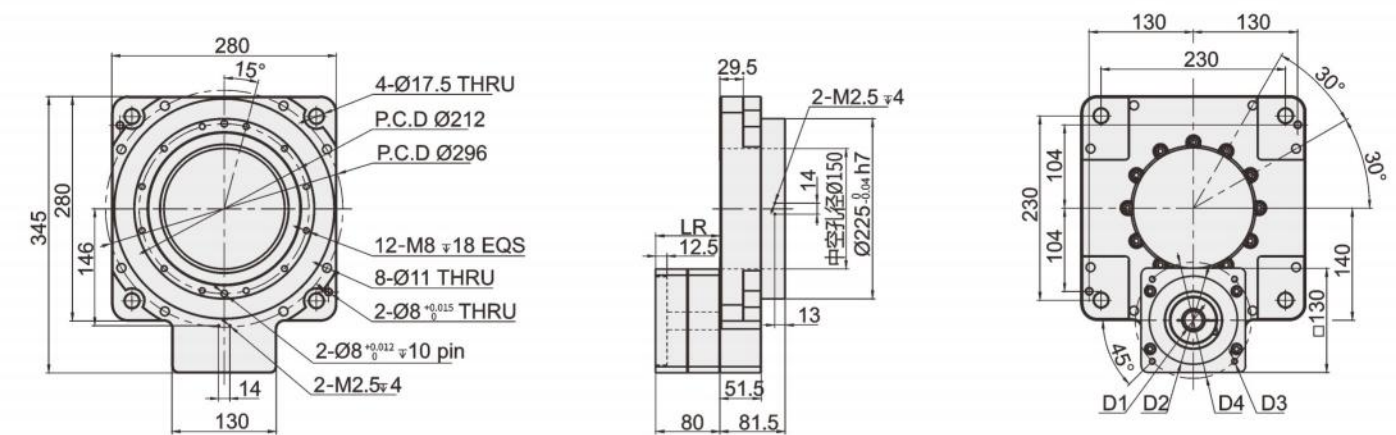
►PTN280系列中空旋转平台适配马达/PTN280 series hollow rotary platform adaptor motor

适配马达 Adaptive motor		规格 Specification	步进马达/Stepper motor	110型/Type 110
			伺服马达/servomotor	1500W AC
旋转平台轴承	Rotary platform bearing	—	交叉滚子轴承 Cross roller bearing	
减速比	Reduction ratio	—	1:10	1:18
容许转矩	Allowable torque	Nm	120	
转动惯量	Moment of inertia	kg•m ²	146000X10 ⁻⁶	
允许转速	Allowable speed	rpm	200r	
容许惯性载重(倾侧力矩)	Allowable inertial load	Nm	216	
容许轴向载重	Allowable axial load	N	7000	
回程间隙	Return clearance	arcmin	≤ 1	
重复定位精度	Repeated positioning accuracy	arcsec	± 15	
旋转平台台面偏差	Deflection of rotating platform surface	mm	0.01	
旋转平台平行度	Rotating platform parallelism	mm	0.03	
旋转平台同心度	Rotating platform concentricity	mm	0.01	
精度寿命	Precision life	h	20000	
保护等级	Protection class	—	IP40	
重量	Weight	Kg	19.0	

► PTN280系列中空旋转平台技术参数/Technical parameters of PTN280 series hollow rotating platform

应用实例技术参数 Application example technical parameters			规格 Specification	直结式行星减速机/Straight junction planetary reducer	
				i	PA120
额定输出扭矩 T2N Rated output torque T2N			Nm	3	208
				4	290
				5	330
				7	300
				10	230
急停扭矩	Scram torque	Nm	2.5倍于T _{2N} 2.5 times T _{2N}		
额定输入转速	Rated input speed	rpm	4000		
最大输入转速	Maximum input speed	rpm	8000		
回程间隙	Return clearance	Nm	≤3		
抗扭刚性	Torsional rigidity	Nm/arcmin	25		
容许径向力	Allowable radial force	N	6700		
容许轴向力	Allowable axial force	N	3350		
使用寿命	Service life	Hr	20000(连续运转降低使用寿命50%) 20000(Continuous operation reduces service life by 50%)		
效率	Efficiency	%	96		
工作温度	Operating temperature	℃	-15℃~+90℃		
防护等级	Class of protection	—	IP 65		
润滑	Oiling	—	合成润滑油脂 Synthetic lubricating oil		
噪音	Noise	dB(A)	≤63		

▶PTN280系列中空旋转平台标准尺寸/PTN280 series hollow rotary platform standard size



① 系列规格 Series specification	② 传动比 Gear ratio	③ 输入安装尺寸/Enter mounting dimensions				
		D1	D2	D3	D4	LR
PTN280	10	22	110	M8	145	80
	18	24	110	M8	145	80
		19	85	M8	132	80

PTN280应用范例(订购时请提供马达法兰尺寸)

直结式行星减速机PA120(单位mm)

PTN280 Application Example (Please provide motor flange size when ordering)

Linear planetary reducer PA120(unit mm)

