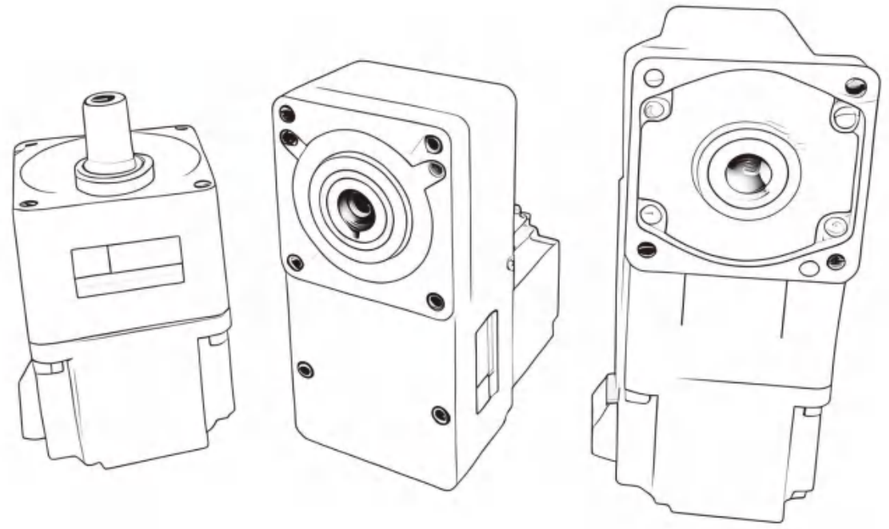




DC BRUSHLESS GEAR MOTOR

微型永磁无刷齿轮减速电机

浙江侨邦精密电机有限公司
ZHEJIANG QIAOBANG PRECISION MACHINE CO.,LTD

地址：浙江省丽水市江南路785号
Address: No. 785 Jiangnan Road, Lishui City, Zhejiang Province
网址：www.chbns.com
Website: www.chbns.com

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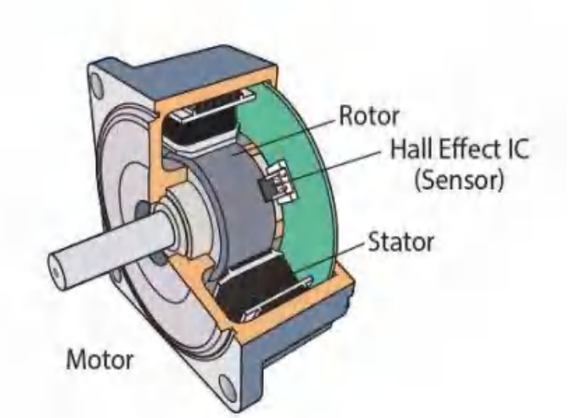
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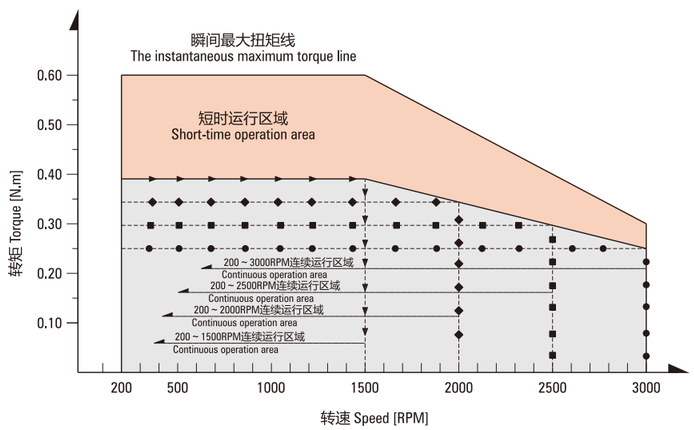
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微型永磁无刷齿轮减速电机
DC BRUSHLESS GEAR MOTOR

轻松、简单，实现速度控制。
Easy And Simple To Achieve Speed Control.



永磁无刷电机特性曲线说明
Description Of Brushless DC Motor Characteristic Curve



- **瞬时最大扭矩线：**电机启动、瞬间冲击负载的最大扭矩；超越此转矩值时，会引起驱动器的过流保护，造成停机；
- **短时运行区：**电机不同转速时，可在此力矩区间内短时运行，时间过长易引起电机发热，从而造成烧机或驱动过热保护启动，造成停机；
- **额定运行扭矩线：**电机在不同转速下的额定力矩，可在此力矩下长时间运行；
- **连续运转区：**在不同转速时，电机在此相应区间内连续运行。

- The maximum of instaneeous torque line: the motor starting the maximum torque of motor , instantaneous impact load; beyond the torque value, over-current protection will lead to stop.
- Short-term running area: when the motor at different speed, it can operate in a short time during this torque range. but after a long time it can cause heating of the motor, resulting motor break or drive overheat protection start, cause stopping working.
- Rated torque Rated torque of the motor line: at different speeds, the motor can run for a long time in this moment.
- In Continuous operation area: at different speed, the motor can operate continuous.

产品特点
PRODUCT FEATURES

无刷电机的基本特点 The Characteristics Of Brushless Motor Suitable For Speed Control Are Introduced

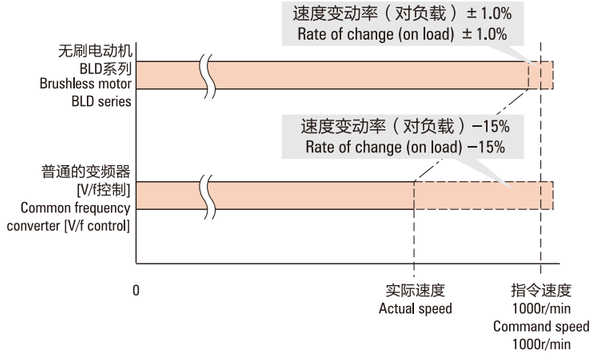
无刷电机上，无需使用通常被认为是DC电动机缺点的刷子和整流子等机械触点，DC电动机使用刷子和整流子进行旋转，因此需要定期进行维护；而无刷电动机使用霍尔IC检测到的信号，利用驱动电路的晶体管的ON/OFF进行旋转，因此无需维护。

On brushless motor ,it is unecessarily using brush ,commutator and any other mechanical contact. Brush motor need brush and commutato to running ,so it need to regular maintain. However , brushless motor used Hall IC to detect the signal and used driving circuit of crystal catheter's ON/OFF. So it dispense with maintain.

可进行稳定的速度控制 Stable Speed Control

无刷电动机持续对设定速度和来自电动机的速度反馈信号进行对比，来调节施加到电动机上的电压；因此，即使负载状况发生变化，仍可以从低速瞬间调整到设定速度，并以此稳定的速度运行。使用变频器控的三相感应电动机不进行反馈控制，因此负载变大时，速度会大幅下降；对于速度稳定性要求较高的用途，建议使用无刷电动机。

Brushless DC motors compare the setting speed with the speed feedback signals from the motor at all times and adjust the motor's applied voltageFor this reason, even if the load changes, stable rotation is performed from low speed to high speed.Common inverter-controller three-phase induction motors do not have this type of feedback control and when the load changes, the speed can be affected. Brushless DC motors are recommended for applications that require the speed to be maintained regardless of the load fluctuation.



宽广的速度控制范围 Wide Speed Control Range

无刷电动机的速度控制范围比AC调速电动机及变频器更广，由于不像AC调速电动机那样在低速时有使用转矩限制，因此，无刷电动机适用于从低速到高速都需要一定转矩的用途。

The brushless DC motor has a broader speed control range compared to three-phase inverter driven motors. Unlike three-phase inverter driven motors, the torque at low speed isnot limited, so brushless DC motors are suited for applications that require constant.

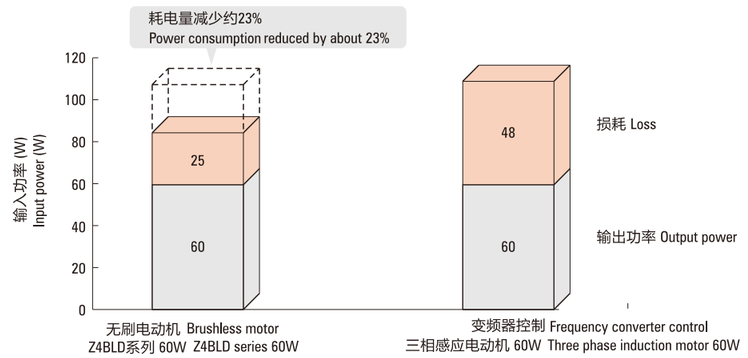
产品样式 Product Style	速度控制范围 Speed Control Range	速度比 Rate Ratio
无刷电动机 Brushless motor	80～3000	50
变频器控制 Frequency converter control 三相感应电动机 Three phase induction motor	200～2400	12
AC调速电动机 AC speed regulating motor	50Hz: 90～1400	15
	60Hz: 90～1600	17

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有助于节能 Saving Energy

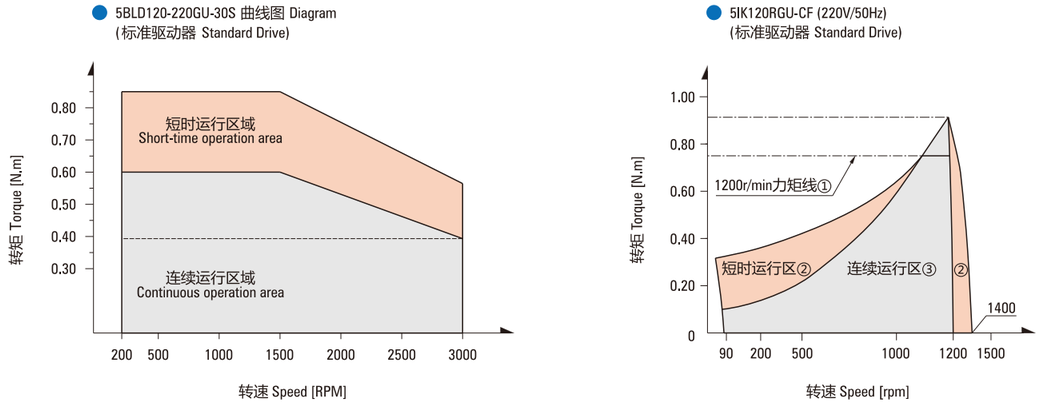
无刷电动机的转子使用了永磁铁，可减少转子的二次损耗，因此与采用变频控制的三相感应电动机相比，耗电量减少约23%，有助于装置的节能。

DC Brushless motor used permanent magnets, it can reduce the secondary loss of rotor. So compared with adopts frequency conversion control of three-phase induction motor, the power reduced 23%. This is in favour of saving energy.



低速大力矩性能 Low Speed And High Torque Performance

永磁无刷减速电机低速时可维持大力矩连续运行，且运行平稳。DC brushless motor have a steady big torque when running at low speed.



①1200r/min torque line ②Short-time operating area ③Continuous operation area

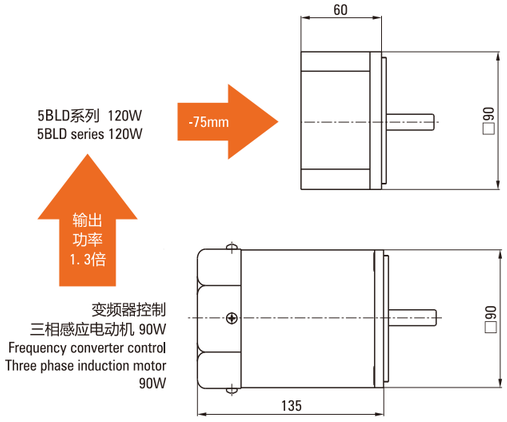
无刷、交流调速且连续运行性能一览表 Working performance table of brushless motor and ac speed adjustable motor

序号 Serial Number	5BLD120-220GU-25S					5IK120RGU-CF				
	力矩 Moment N.m	转速 Speed rpm	电流 Current A	效率 Efficiency %	温升 Temperature Rise K	力矩 Moment N.m	转速 Speed rpm	电流 Current A	效率 Efficiency %	温升 Temperature Rise K
1	0.595	200	0.485	26.5	≤50K	0.010	200	0.850	3.00	≤80K
2	0.595	500	0.671	47.5	≤50K	0.150	500	1.070	8.00	≤80K
3	0.595	1000	0.966	62.0	≤40K	0.500	1000	1.186	32.5	≤80K
4	0.595	1500	1.200	69.0	≤40K	0.915	1400	0.981	60.0	≤55K
环境温度-10°C～+40°C下使用 Ambient temperature -10°C～+40°C environment										

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.

电机的一般规格——转速 Motor Spec——Speed

电机轴转速 Motor Speed \ 减速比 Reduction Ratio / 出轴转速 Output Shaft Speed	3	3.6	5	6	7.5	9	10	12.5	15	18	20	25
200～1500RPM	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	222	200	160	133	111	100	80
2500RPM	833	694	500	417	333	278	250	200	167	139	125	100
3000RPM	1000	833	600	500	400	333	300	240	200	167	150	120

电机轴转速 Motor Speed \ 减速比 Reduction Ratio / 出轴转速 Output Shaft Speed	30	36	50	60	75	90	100	120	150	180	200	
200～1500RPM	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	33	27	22	20	17	13	11	10	
2500RPM	83	69	50	42	33	28	25	21	17	14	13	
3000RPM	100	83	60	50	40	33	30	25	20	17	15	

电机的一般规格——产品种类 Motor Spec——Product Type

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		DC24～48 单相 Single phase 100～120V 单相 Single phase 220～240V
	70X70	30、40			
	80X80	40、60			
	90X90(GN)	40、60			
	90X90(GU)	60、90、120			
	104X104	200、400			
	120X120	750、1000			

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电机的一般规格——基本性能 Motor Spec——Basic Performance

项目		电动机	驱动器
绝缘电阻（不得将电机与驱动连接状态下测试）		在常温常湿环境下连续运行后，以DC500V电阻表测试电动机线圈与外壳之间的测量值应在50MΩ以上	在常温常湿环境下连续运行后，电源端子与保护接地端子间、电源端子与输入/输出信号端之间的电阻值以DC500V电阻表测量达50MΩ以上
绝缘耐压（不得将电机与驱动连接状态下测试）		在常温常湿环境下连续运行后，线圈、外壳间以50Hz、AC1.5kv施加1分钟无异常，泄漏电流<10mA	在常温常湿环境下连续运行后，电源端子与保护接地端子间以50Hz、AC1.5Kv，电源端子与输入/输出信号端之间以50Hz、AC1.5Kv施加1分钟无异常
温度上升		在常温常湿环境下连续运行后，以热电偶法测量的线圈温度上升值在55°C以下、测量外壳表面温度上升值在40°C以下①	在常温常湿环境下连续运行后，以热电偶法测量的铝质散热板温度上升值在50°C以下
使用环境	环境温度	-10°C～+40°C (无结冰)	
	环境湿度	85%以下 (无凝霜)	
	海拔高度	1000m以下	
	介质环境	无腐蚀性气体、尘埃；不可在含有放射性物质、磁场及真空等特殊环境中使用	
	振动	不可施加连续振动或过度冲击	
保存环境②	环境温度	-10°C～+40°C (无结冰)	
	环境湿度	85%以下 (无凝霜)	
	海拔高度	1000m以下	
耐热等级		B级	/
保护等级		IP40 & IP54	IP20

①为了使电动机外壳表面温度能保持在90°C以下，需将电动机安装在以下尺寸的散热板（材质：铝）上；25W:115X115X厚度5、60W:135X135X厚度5、120W:165X165X厚度5、200W:200X200X厚度5。（单位：mm）

②保护环境也包括运输途中的短期值。

Project Iteam		Motor	Driver
Insulation resistance (No motor and drive connection state test)		50MΩ or more when 500VDC megger is applied between the windings and the case after continuous operation under normal ambient temperature and humidity	50MΩ or more when 500VDC megger is applied between the power supply terminal and the protective earth terminal, and between the power supply terminal and the I/O signal terminal after continuous operation under normal ambient temperature and humidity
Insulation resistance (No motor and drive connection state test)		Sufficient to withstand AC1.5kv at 50Hz applied between the windings and the case for 1 minute after continuous operation under normal ambient temperature and humidity	Sufficient to withstand AC1.5kv at 50Hz applied between the power supply terminal and the protective earth terminal and the I/O signal terminal for 1 minute after continuous operation under normal ambient temperature and humidity
Temperature rise		The temperature rise of windings is 55°C max, and that of the case surface is 40°C max, measured by the thermocouple method after rated continuous operation under normal ambient temperature and humidity	The temperature of the heat sink is 50°C max, measured by the thermocouple method after rated continuous operation under normal ambient temperature and humidity
Use environment	Ambient temperature	-10°C～+40°C (Non-freezing)	
	Ambient humidity	85% or less (No-condensing)	
	Altitude	1000m following	
	Medium environment	Non corrosive gas, dust; can not be used in a special environment containing radioactive substances, magnetic fields and vacuum, etc	
	Vibration	Not to exert a continuous vibration or excessive impact	
Save environment②	Ambient temperature	-10°C～+40°C (Non-freezing)	
	Ambient humidity	85% or less (No-condensing)	
	Altitude	1000m following	
Heat resistance grade		B stage	/
Protection level		IP40 & IP54	IP20

① In order to make the motor shell surface temperature can be maintained below 90°C, the motor installed in the following dimensions of the radiating plate (Material: aluminum); thickness of 25W: 115X115X5, the thickness of the 60W: 135X135X5, the thickness of the 120W: 165X165X5, the thickness of the 200W: 200X200X5, (Unit: mm)

② The storage condition applies to a short period such as a period during transportation.

无刷直流电动机
Brushless DC Motor

C ① 5 ② BLD ③ 90 ④ - 24 ⑤ GU (L) ⑥ - 30S ⑦ - ⑧

①	公司名称	侨邦精密电机			
②		型号尺寸			
	座机号	2	4	5	6
	电机安装法兰	□60	□80	□90	□104
	机壳尺寸	60*60	80*80	90*90	104*104
③	电机种类	BLD：无刷直流电机			
④	输出功率（W）	（例e.g）90:90W			
⑤	电压电压	（例e.g）24:24VDC（可选电压24V~48VDC，单相100V~120VAC，单相220V~240VAC，50/60Hz）			
⑥	相对于方型减速箱 齿轴形状	GN:GN型齿轮轴　GU:GU型齿轮轴			
	相对于L型减速箱 齿轴形状	GNL:GN型L系列齿轮轴（主要为2&4系列） GNL:GU型L系列齿轮轴（主要为5&6系列）			
	光电机出轴形状 A：圆轴型	A1：扁平型		A2：键槽型	
⑦	电机转速	（例e.g）30S：3000RPM			
⑧	N:无感无霍尔	无：有霍尔			
⑨	电机附加配件 M：电磁刹车 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）				

①	Company Name	CHBNS Motor			
②	Machine Number	Model and Size			
	Motor Mounting Flange	2	4	5	6
	Motor Housing Size	□60	□80	□90	□104
	Motor Type	60*60	80*80	90*90	104*104
③	Output Power (W)	BLD: Brushless DC Motor			
④	Voltage	(e.g.) 90: 90W			
⑤	(e.g.) 24: 24VDC (Optional voltages: 24V~48VDC, Single - phase 100V~120VAC, Single - phase 220V~240VAC, 50/60Hz)				
⑥	Gear Shaft Shape Relative to Square - type Reduction Box	GN: GN - type Gear Shaft GU: GU - type Gear Shaft			
	Gear Shaft Shape Relative to L - type Reduction Box	GNL: GNL - type L - series Gear Shaft (Mainly for 2&4 series) GNL: GUL - type L - series Gear Shaft (Mainly for 5&6 series)			
	Output Shaft Shape of Optical Motor A: Round Shaft Type	A1: Flat Type		A2: Keyway Type	
⑦	Motor Speed	(e.g.) 30S: 3000RPM			
⑧	N: Sensorless and No Hall	No: With Hall			
⑨	Motor Additional Accessories M: Electromagnetic Brake BFE: Closed - loop Feedback Mode, generally referring to the motor with an encoder (including simple Hall encoder)				

平行轴
parallel shaft

5 ① GN ② 50 ③ K ④

①	减速机安装尺寸	2:60mm　4:80mm　5:90mm　6:104MM
②	类型	GN:GN型齿轮　GU:GU型齿轮轴
③	减速比	（例e.g）50：减速比
④	轴承种类	K：滚珠轴承（对GU型方箱体标注为KB）

①	Reducer Installation Dimensions	2: 60mm 4: 80mm 5: 90mm 6: 104MM
②	Type	GN: GN - type Gear GU: GU - type Gear Shaft
③	Reduction Ratio	(e.g.) 50: Reduction Ratio
④	Bearing Type	K: Ball Bearing (Marked as KB for GU - type Square Housing)

直交轴减速器
Right-Angle Gear Reducer

5 ① GN ② 50 ③ RC ④ K ⑤

①	减速机安装尺寸	2:60mm　4:80mm　5:90mm　6:104MM
②	轴头类型	GN一般型，GU加强型
③	输出类型	RC:弧锥齿空心轴输出/RT:弧锥齿实心轴输出
④	减速比	（例e.g）50：减速比
⑤	轴承种类	K：滚珠轴承（对GU型方箱体标注为KB）

①	Reducer Installation Dimensions	2:60mm 4:80mm 5:90mm 6:104MM
②	Shaft Head Type	GN: General Type GU: Reinforced Type
③	Output Type	RC: Hollow Shaft Output with Spiral Bevel Gear RT: Solid Shaft Output with Spiral Bevel Gear
④	Reduction Ratio	(e.g.) 50: Reduction Ratio
⑤	Bearing Type	K: Ball Bearing (Marked as KB for GU - type Square Housing)

L型减速器
L-Type Gear Reducer

5 ① GU ② 50 ③ LC ④

①	减速机安装尺寸	2:60mm　4:80mm　5:90mm　6:104MM
②	类型	GN:GN型齿轮轴（针对L系列2&4）　GU:GU型齿轮轴（针对L系列5&6）
③	减速比	（例e.g）50：减速比
④	减速箱类型	LC:L型空心轴输出减速器

①	Reducer Installation Dimensions	2:60mm 4:80mm 5:90mm 6:104MM
②	Type	GN: GN - type Gear Shaft (for L Series 2&4) GU: GU - type Gear Shaft (for L Series 5&6)
③	Reduction Ratio	(e.g.) 50: Reduction Ratio
④	Reduction Box Type	LC: L - type Hollow Shaft Output Reducer

• 60型电机性能参数 Motor Performance Parameters

电机型号 Motor Model	电压 Voltage(V)	额定功率 Rated Power(W)	额定电流 Rated Current(A)	额定转速 Rated Speed(RPM)	额定力矩 Rated Torque(N.m)
C2BLD	DC12V	15	2.1	2000	0.07
			2	3000	0.05
		20	2.7	2000	0.09
			2.5	3000	0.06
		25	3.5	2000	0.11
			3.4	3000	0.08
	DC24V	15	1	2000	0.07
			0.9	3000	0.05
		20	1.4	2000	0.09
			1.3	3000	0.06
		25	1.7	2000	0.12
			1.8	2000	0.08
		30	2.1	2000	0.14
			2.2	3000	0.1
		40	2.8	2000	0.19
			2.7	3000	0.13
	DC48V	15	0.5	2000	0.07
			0.4	3000	0.05
		20	0.7	2000	0.09
			0.6	3000	0.06
		25	0.9	2000	0.12
			0.8	3000	0.08
		30	1.1	2000	0.14
			0.9	3000	0.1
		40	1.4	2000	0.19
			1.3	3000	0.13
	AC220V	30	0.42	3000	0.1
		40	0.56	3000	0.13

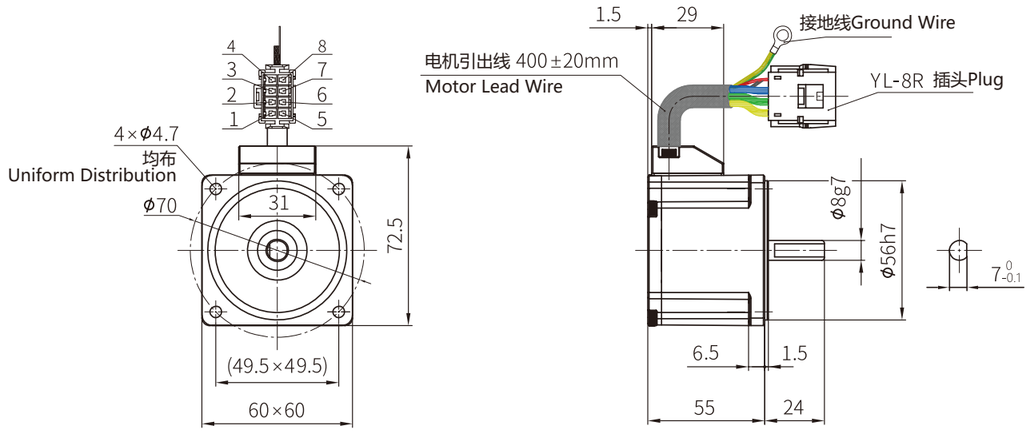
• 60型减速电机扭矩表 Gear Head-Torque Table

减速比 Gear Ratio				3	5	7.5	10	15	20	25	30	40	50	60	75	100	150	180	200	最大允许负载 (kg.cm)
减速机最大允许力矩(N.m)	15W	2000r/min	N.m	0.19	0.32	0.47	0.63	0.94	1.2	1.5	1.8	2.4	3	3	3	3	3	3	3	31
			Kg.cm	1.9	3.3	4.8	6.4	9.6	12	15	18	24	31	31	31	31	31	31	31	
		3000r/min	N.m	0.15	0.23	0.32	0.42	0.64	0.85	1.1	1.27	1.7	2.14	2.5	3	3	3	3	3	
			Kg.cm	1.5	2.3	3.3	4.3	6.5	8.7	11	13	17	22	25	31	31	31	31	31	
	20W	2000r/min	N.m	0.26	0.41	0.61	0.81	1.22	1.54	1.93	2.31	3	3	3	3	3	3	3	3	
			Kg.cm	2.7	4.2	6.2	8.3	12.4	15.7	19.7	23.6	31	31	31	31	31	31	31	31	
		3000r/min	N.m	0.17	0.27	0.41	0.54	0.81	1	1.29	1.54	2.05	2.57	2.93	3	3	3	3	3	
			Kg.cm	1.7	2.8	4.2	5.5	8.3	10	13	15.7	21	25	29.9	31	31	31	31	31	
	25W	2000r/min	N.m	0.31	0.5	0.74	0.99	1.49	1.89	2.35	2.83	3	3	3	3	3	3	3	3	
			Kg.cm	3.2	5	7.5	10	15	19	24	29	31	31	31	31	31	31	31	31	
		3000r/min	N.m	0.23	0.36	0.54	0.72	1.1	1.37	1.7	2.05	2.74	3	3	3	3	3	3	3	
			Kg.cm	2.3	3.7	5.5	7.3	11	14	17	21	28	31	31	31	31	31	31	31	
	30W	2000r/min	N.m	0.4	0.63	0.95	1.26	1.9	2.4	3	3	3	3	3	3	3	3	3	3	
			Kg.cm	4	6.4	9.7	12.8	19	24	31	31	31	31	31	31	31	31	31	31	
		3000r/min	N.m	0.29	0.45	0.67	0.9	1.35	1.7	2.1	2.57	3	3	3	3	3	3	3	3	
			Kg.cm	3	4.6	6.8	9	13.7	17	21	26	31	31	31	31	31	31	31	31	
	40W	2000r/min	N.m	0.54	0.86	1.29	1.7	2.57	3	3	3	3	3	3	3	3	3	3	3	
			Kg.cm	5.5	8.8	13	17	26	31	31	31	31	31	31	31	31	31	31	31	
		3000r/min	N.m	0.37	0.59	0.88	1.17	1.75	2.23	2.79	3	3	3	3	3	3	3	3	3	
			Kg.cm	3.8	6	9	12	18	23	28	31	31	31	31	31	31	31	31	31	

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安装尺寸图 Installation Dimension Drawing



端子及接线示意图 Schematic Diagram of Terminals and Wiring

1	2	3	4	5	6	7	8
U	V	W	VCC	Hu	Hv	Hw	GND
黄(粗) Yellow (Trick)	绿(粗) Green (Trick)	蓝(粗) Blue (Trick)	红(细) Red (Fine)	黄(细) Yellow (Fine)	绿(细) Green (Fine)	蓝(细) Blue (Fine)	黑(细) Black (Fine)

• 70型电机性能参数 Motor Performance Parameters

电机型号 Motor Model	电压 Voltage(V)	额定功率 Rated Power(W)	额定电流 Rated Current(A)	额定转速 Rated Speed(RPM)	额定力矩 Rated Torque(N.m)
C3BLD	DC12V	15	2.1	2000	0.07
			2	3000	0.05
		20	2.7	2000	0.09
			2.5	3000	0.06
		25	3.5	2000	0.11
			3.4	3000	0.08
	DC24V	15	1	2000	0.07
			0.9	3000	0.05
		20	1.4	2000	0.09
			1.3	3000	0.06
		25	1.7	2000	0.12
			1.8	3000	0.08
		30	2.1	2000	0.14
			2.2	3000	0.1
		40	2.8	2000	0.19
			2.7	3000	0.13
	DC48V	15	0.5	2000	0.07
			0.4	3000	0.05
		20	0.7	2000	0.09
			0.6	3000	0.06
		25	0.9	2000	0.12
			0.8	3000	0.08
		30	1.1	2000	0.14
			0.9	3000	0.1
		40	1.4	2000	0.19
			1.3	3000	0.13
	AC220V	30	0.42	3000	0.1
		40	0.56	3000	0.13

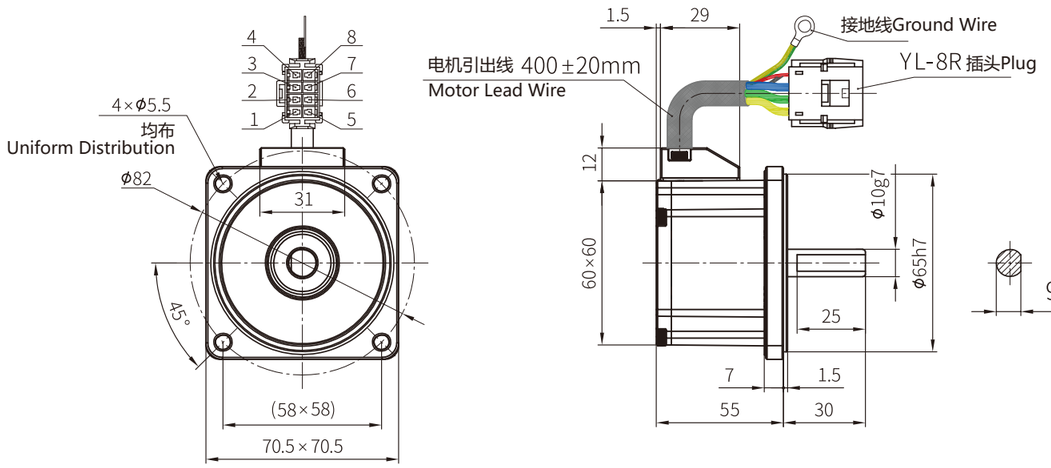
• 70型减速电机扭矩表 Gear Head-Torque Table

减速比 Gear Ratio				3	5	7.5	10	15	20	25	30	40	50	60	75	100	120	150	200	最大允许负载 (kg.cm)
减速机最大允许力矩(N.m)	15W	2000r/min	N.m	0.19	0.32	0.47	0.63	0.94	1.2	1.5	1.8	2.4	3	3.5	4.28	5	5	5	5	51
			Kg.cm	1.9	3.3	4.8	6.4	9.6	12	15	18	24	31	35.7	44	51	51	51	51	
		3000r/min	N.m	0.15	0.23	0.32	0.42	0.64	0.85	1.1	1.27	1.7	2.14	2.5	3.2	4.2	5	5	5	
			Kg.cm	1.5	2.3	3.3	4.3	6.5	8.7	11	13	17	22	25	33	43	51	51	51	
	20W	2000r/min	N.m	0.26	0.41	0.61	0.81	1.22	1.54	1.93	2.31	3.1	3.86	4.62	5	5	5	5	5	
			Kg.cm	2.7	4.2	6.2	8.3	12.4	15.7	19.7	23.6	32	39	47	51	51	51	51	51	
		3000r/min	N.m	0.17	0.27	0.41	0.54	0.81	1	1.29	1.54	2.05	2.57	2.93	3.67	4.88	5	5	5	
			Kg.cm	1.7	2.8	4.2	5.5	8.3	10	13	15.7	21	25	29.9	37	50	51	51	51	
	25W	2000r/min	N.m	0.31	0.5	0.74	0.99	1.49	1.89	2.35	2.83	3.77	4.72	5	5	5	5	5	5	
			Kg.cm	3.2	5	7.5	10	15	19	24	29	38	48	51	51	51	51	51	51	
		3000r/min	N.m	0.23	0.36	0.54	0.72	1.1	1.37	1.7	2.05	2.74	3.42	3.9	4.88	5	5	5	5	
			Kg.cm	2.3	3.7	5.5	7.3	11	14	17	21	28	35	40	50	51	51	51	51	
	30W	2000r/min	N.m	0.4	0.63	0.95	1.26	1.9	2.4	3	3.6	4.8	5	5	5	5	5	5	5	
			Kg.cm	4	6.4	9.7	12.8	19	24	31	37	49	51	51	51	51	51	51	51	
		3000r/min	N.m	0.29	0.45	0.67	0.9	1.35	1.7	2.1	2.57	3.42	4.28	4.88	5	5	5	5	5	
			Kg.cm	3	4.6	6.8	9	13.7	17	21	26	35	44	50	51	51	51	51	51	
	40W	2000r/min	N.m	0.54	0.86	1.29	1.7	2.57	3.26	4	4.88	5	5	5	5	5	5	5	5	
			Kg.cm	5.5	8.8	13	17	26	33	41	50	51	51	51	51	51	51	51	51	
		3000r/min	N.m	0.37	0.59	0.88	1.17	1.75	2.23	2.79	3.34	4.46	5	5	5	5	5	5	5	
			Kg.cm	3.8	6	9	12	18	23	28	34	46	51	51	51	51	51	51	51	

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安装尺寸图 Installation Dimension Drawing



端子及接线示意图 Schematic Diagram of Terminals and Wiring

1	2	3	4	5	6	7	8
U	V	W	VCC	Hu	Hv	Hw	GND
黄(粗) Yellow (Trick)	绿(粗) Green (Trick)	蓝(粗) Blue (Trick)	红(细) Red (Fine)	黄(细) Yellow (Fine)	绿(细) Green (Fine)	蓝(细) Blue (Fine)	黑(细) Black (Fine)

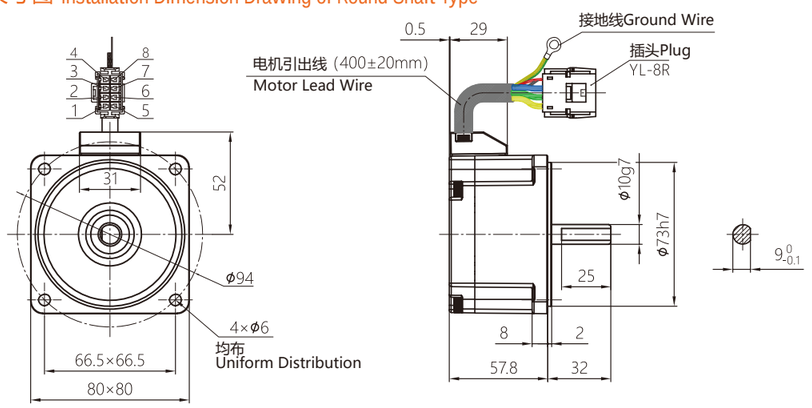


80型电机性能参数 Motor Performance Parameters

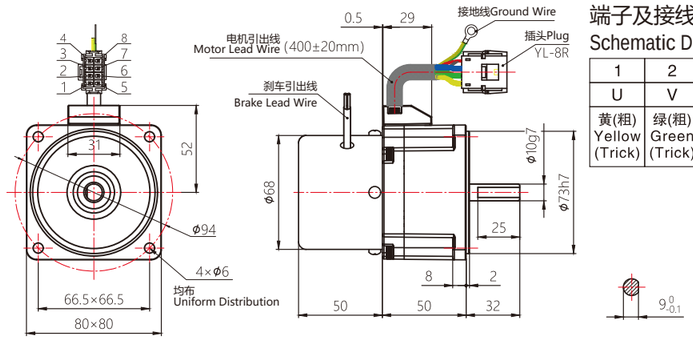
电机型号 Motor Model	电压 Voltage(V)	额定功率 Rated Power(W)	额定电流 Rated Current(A)	额定转速 Rated Speed(RPM)	额定力矩 Rated Torque(N.m)
C4BLD	DC12V	25	3.2	2000	0.12
			3	3000	0.08
		40	5.1	2000	0.19
			4.9	3000	0.13
		60	7.7	2000	0.29
			7.3	3000	0.19
		90	11.5	2000	0.43
			11	3000	0.29
		120	15.4	2000	0.57
			14.7	3000	0.38
	DC24V	25	1.6	2000	0.12
			1.5	3000	0.08
		40	2.6	2000	0.19
			2.4	3000	0.13
		60	3.8	2000	0.29
			3.6	3000	0.19
		90	5.8	2000	0.43
			5.5	3000	0.29
		120	7.7	2000	0.57
			7.3	3000	0.38
	DC48V	25	0.8	2000	0.12
			0.7	3000	0.08
		40	1.3	2000	0.19
			1.2	3000	0.13
		60	1.9	2000	0.29
			1.8	3000	0.19
		90	2.9	2000	0.43
			2.8	3000	0.29
		120	3.8	2000	0.57
			3.6	3000	0.38
	DC110V	40	1.1	2000	0.19
			0.9	3000	0.13
		60	1.53	2000	0.29
			1.5	3000	0.19
		90	2.28	2000	0.43
			2.2	3000	0.29
		120	3	2000	0.57
			2.9	3000	0.38
	AC220V	40	0.56	2000	0.19
			0.46	3000	0.13
		60	0.76	2000	0.29
			0.73	3000	0.19
		90	1.15	2000	0.43
			1.1	3000	0.29
		120	1.53	2000	0.57
			1.5	3000	0.38

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圆轴型安装尺寸图 Installation Dimension Drawing of Round Shaft Type



制动型圆轴安装尺寸图 Installation Dimension Drawing of Brake - type Round Shaft



端子及接线示意图 Schematic Diagram of Terminals and Wiring

1	2	3	4	5	6	7	8
U	V	W	VCC	Hu	Hv	Hw	GND
黄(粗) Yellow (Trick)	绿(粗) Green (Trick)	蓝(粗) Blue (Trick)	红(细) Red (Fine)	黄(细) Yellow (Fine)	绿(细) Green (Fine)	蓝(细) Blue (Fine)	黑(细) Black (Fine)

80型减速电机扭矩表 Gear Head-Torque Table

减速比 Gear Ratio				3	5	7.5	10	15	20	25	30	40	50	60	75	100	120	150	200	最大允许负载（kg.cm）
减速机最大允许力矩(N.m)	25W	2000r/min	N.m	0.34	0.54	0.8	1.1	1.6	2.1	2.57	3.1	4.1	4.88	5.86	7.33	8	8	8	8	82
			Kg.cm	3.5	5.6	8	11	16	20	26	32	42	50	60	75	82	82	82	82	
		3000r/min	N.m	0.23	0.36	0.54	0.72	1.1	1.37	1.7	2.05	2.74	3.42	3.9	4.88	6.5	7.8	7.8	7.8	
			Kg.cm	2.3	3.7	5.5	7.3	11	14	17	21	28	35	40	50	66	80	80	80	
	40W	2000r/min	N.m	0.54	0.86	1.29	1.7	2.57	3.26	4	4.88	6.5	7.74	8	8	8	8	8	8	
			Kg.cm	5.5	8.8	13	17	26	33	41	50	66	79	82	82	82	82	82	82	
		3000r/min	N.m	0.37	0.59	0.88	1.17	1.75	2.23	2.79	3.34	4.46	5.29	6.35	7.9	8	8	8	8	
			Kg.cm	3.8	6	9	12	18	23	28	34	46	54	65	81	82	82	82	82	
	60W	2000r/min	N.m	0.83	1.3	1.96	2.61	3.92	4.97	6.22	7.46	8	8	8	8	8	8	8	8	
			Kg.cm	8.5	13	20	26	40	50	63	76	82	82	82	82	82	82	82	82	
		3000r/min	N.m	0.54	0.86	1.29	1.7	2.57	3.26	4	4.88	6.5	7.74	8	8	8	8	8	8	
			Kg.cm	5.5	8.8	13	17	26	33	41	50	66	79	82	82	82	82	82	82	
	90W	2000r/min	N.m	1.23	1.94	2.91	3.88	5.82	7.37	8	8	8	8	8	8	8	8	8	8	
			Kg.cm	12.6	20	29	40	59	75	82	82	82	82	82	82	82	82	82	82	
		3000r/min	N.m	0.83	1.3	1.96	2.61	3.92	4.97	6.22	7.46	8	8	8	8	8	8	8	8	
			Kg.cm	8.5	13	20	26	40	50	63	76	82	82	82	82	82	82	82	82	
	120W	2000r/min	N.m	1.62	2.57	3.86	5.1	7.71	8	8	8	8	8	8	8	8	8	8	8	
			Kg.cm	16.5	26	39	52	79	82	82	82	82	82	82	82	82	82	82	82	
		3000r/min	N.m	1.08	1.71	2.57	3.42	5.14	6.5	8	8	8	8	8	8	8	8	8	8	
			Kg.cm	11	17	26	35	52	66	82	82	82	82	82	82	82	82	82	82	

90型电机性能参数 Motor Performance Parameters

电机型号 Motor Model	电压 Voltage(V)	额定功率 Rated Power(W)	额定电流 Rated Current(A)	额定转速 Rated Speed(RPM)	额定力矩 Rated Torque(N.m)
C5BLD	DC24V	60	3.3	2000	0.29
			3.2	3000	0.19
		90	5	2000	0.43
			4.8	3000	0.29
		120	6.7	2000	0.57
			6.4	3000	0.38
		150	8.3	2000	0.72
			8	3000	0.48
		200	11.1	2000	0.96
			10.6	3000	0.64
	DC48V	60	1.7	2000	0.29
			1.6	3000	0.19
		90	2.5	2000	0.43
			2.4	3000	0.29
		120	3.3	2000	0.57
			3.2	3000	0.38
		150	4.2	2000	0.72
			4	3000	0.48
		200	5.6	2000	0.96
			5.3	3000	0.64
	AC110V	60	1.3	2000	0.29
			1.2	3000	0.19
		90	1.95	2000	0.43
			1.9	3000	0.29
		120	2.6	2000	0.57
			2.2	3000	0.38
		150	3.2	2000	0.72
			3	3000	0.48
		200	4.3	2000	0.96
			4	3000	0.64
	AC220V	60	0.65	2000	0.29
			0.55	3000	0.19
		90	0.98	2000	0.43
			0.9	3000	0.29
		120	1.3	2000	0.57
			1.1	3000	0.38
		150	1.62	2000	0.72
			1.5	3000	0.48
		200	2.15	2000	0.96
			2	3000	0.64

90型减速电机扭矩表 Gear Head-Torque Table

减速比 Gear Ratio				3	5	7.5	10	15	20	25	30	40	50	60	75	100	120	150	200	最大允许负载（kg.cm）
减速机最大允许力矩(N.m)	60W	2000r/min	N.m	0.79	1.3	1.96	2.61	3.92	4.97	6.22	7.46	9.95	11.8	14.2	17.7	20	20	20	20	204
			Kg.cm	8.5	13	20	26	40	50	63	76	101	120	145	180	204	204	204	204	
		3000r/min	N.m	0.51	0.86	1.29	1.7	2.57	3.26	4	4.88	6.51	7.73	9.29	11.6	15.5	18.6	20	20	
			Kg.cm	5.5	8.8	13	17	26	33	41	50	66	79	95	118	158	190	204	204	
	90W	2000r/min	N.m	1.16	1.94	2.91	3.88	5.82	7.37	9.21	11	14.7	17.5	20	20	20	20	20	20	
			Kg.cm	12.6	20	29	40	59	75	94	112	150	179	204	204	204	204	204	204	
		3000r/min	N.m	0.79	1.3	1.96	2.61	3.92	4.97	6.22	7.46	9.95	11.8	14.2	17.7	20	20	20	20	
			Kg.cm	8.5	13	20	26	40	50	63	76	101	120	145	180	204	204	204	204	
	120W	2000r/min	N.m	1.54	2.57	3.86	5.1	7.71	9.77	12.2	14.7	19.5	20	20	20	20	20	20	20	
			Kg.cm	15.7	26	39	52	79	100	124	150	199	204	204	204	204	204	204	204	
		3000r/min	N.m	1	1.71	2.57	3.42	5.14	6.5	8.14	9.77	13	15.5	18.6	20	20	20	20	20	
			Kg.cm	10	17	26	35	52	66	83	100	133	158	190	204	204	204	204	204	
	150W	2000r/min	N.m	1.95	3.25	4.87	6.5	9.26	12.35	15.43	18.52	20	20	20	20	20	20	20	20	
			Kg.cm	20	33	50	66	94	126	157	189	204	204	204	204	204	204	204	204	
		3000r/min	N.m	1.3	2.17	3.25	4.33	6.17	8.23	10.29	12.35	16.46	19.55	20	20	20	20	20	20	
			Kg.cm	13	22	33	44	63	84	105	126	167	199	204	204	204	204	204	204	
	200W	2000r/min	N.m	2.6	4.33	6.5	8.66	12.35	16.46	20	20	20	20	20	20	20	20	20	20	
			Kg.cm	27	44	66	88	126	167	205	204	204	204	204	204	204	204	204	204	
		3000r/min	N.m	1.73	2.89	4.33	5.77	8.23	10.97	13.7	16.46	20	20	20	20	20	20	20	20	
			Kg.cm	18	29	44	59	84	111	140	168	204	204	204	204	204	204	204	204	

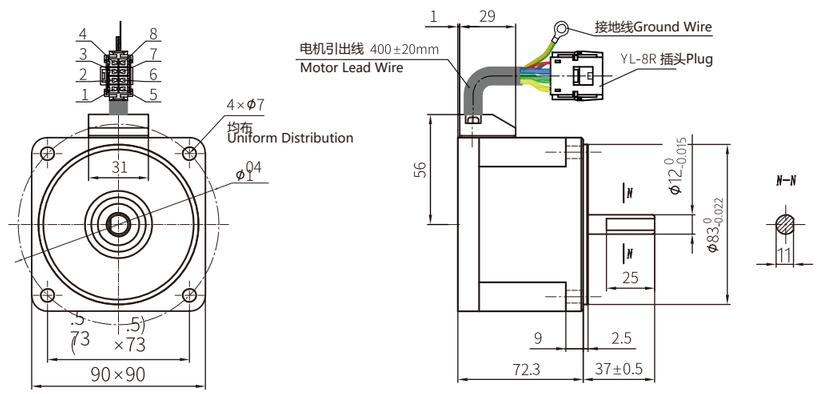
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90圆轴型系列 无刷直流电机 90 ROUND SHAFT SERIES



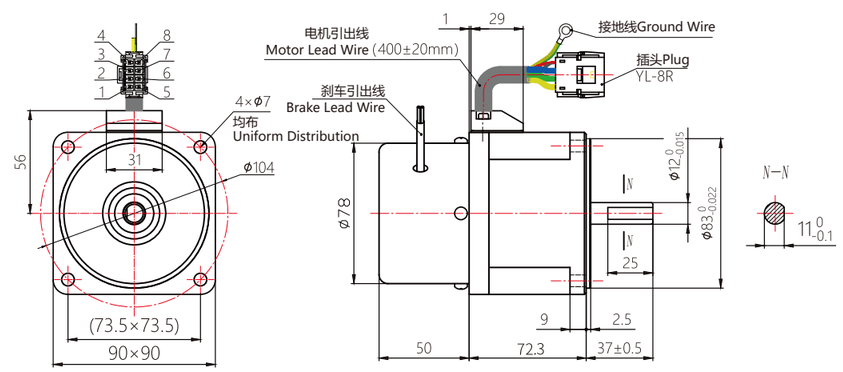
端子及接线示意图
Schematic Diagram of Terminals and Wiring

1	2	3	4	5	6	7	8
U	V	W	VCC	Hu	Hv	Hw	GND
黄(粗) Yellow (Trick)	绿(粗) Green (Trick)	蓝(粗) Blue (Trick)	红(细) Red (Fine)	黄(细) Yellow (Fine)	绿(细) Green (Fine)	蓝(细) Blue (Fine)	黑(细) Black (Fine)

圆轴型安装尺寸图 Installation Dimension Drawing of Round Shaft Type



制动型圆轴安装尺寸图 Installation Dimension Drawing of Brake - type Round Shaft



• 100型电机性能参数 Motor Performance Parameters

电机型号 Motor Model	电压 Voltage(V)	额定功率 Rated Power(W)	额定电流 Rated Current(A)	额定转速 Rated Speed(RPM)	额定力矩 Rated Torque(N.m)
C6BLD	DC24V	200	10.4	2000	0.96
			10	3000	0.64
		300	15.6	2000	1.43
			15	3000	0.96
		400	20.8	2000	1.91
			20.3	3000	1.27
	DC48V	200	5.2	2000	0.96
			5	3000	0.64
		300	7.8	2000	1.43
			7.6	3000	0.96
		400	10.4	2000	1.91
			10	3000	1.27
	AC110V	200	3.7	2000	0.96
			3.6	3000	0.64
		300	5.5	2000	1.43
			5.2	3000	0.96
		400	7.3	2000	1.91
			7	3000	1.27
	AC220V	200	1.8	2000	0.96
			1.7	3000	0.64
		300	2.75	2000	1.43
			2.6	3000	0.96
		400	3.7	2000	1.91
			3.6	3000	1.27
		500	4.58	2000	2.38
			4.4	3000	1.59

• 100型减速电机扭矩表 Gear Head-Torque Table

减速比 Gear Ratio				3	5	7.5	10	15	20	25	30	40	50	60	75	100	120	150	200	300	最大允许负载 (kg.cm)
减速机最大允许力矩(N.m)	200W	2000r/min	N.m	2.6	4.33	6.5	8.66	12.35	16.46	20.58	24.69	32.9	39	45	45	45	45	45	45	45	459
			Kg.cm	27	44	66	88	126	167	210	252	335	398	459	459	459	459	459	459	459	
		3000r/min	N.m	1.73	2.89	4.33	5.77	8.23	10.97	13.7	16.46	21.6	26	31.27	39	45	45	45	45	45	
			Kg.cm	18	29	44	59	84	111	140	168	220	265	319	398	459	459	459	459	459	
	300W	2000r/min	N.m	3.87	6.45	9.68	12.9	18.39	24.5	30.65	36.78	45	45	45	45	45	45	45	45	45	
			Kg.cm	39	66	99	132	188	250	313	375	459	459	459	459	459	459	459	459	459	
		3000r/min	N.m	2.6	4.33	6.5	8.66	12.35	16.46	20.58	24.69	32.9	39	45	45	45	45	45	45	45	
			Kg.cm	27	44	66	88	126	167	210	252	335	398	459	459	459	459	459	459	459	
	400W	2000r/min	N.m	5.17	8.62	12.9	17.2	24.56	32.75	40.9	45	45	45	45	45	45	45	45	45	45	
			Kg.cm	53	88	132	176	251	334	417	459	459	459	459	459	459	459	459	459	459	
		3000r/min	N.m	3.44	5.73	8.59	11.5	16.3	21.8	27	32.7	43.5	45	45	45	45	45	45	45	45	
			Kg.cm	35	58	88	117	166	222	276	333	444	459	459	459	459	459	459	459	459	
	500W	2000r/min	N.m	6.44	10.73	16	21.5	30.6	40.8	45	45	45	45	45	45	45	45	45	45	45	
			Kg.cm	66	109	163	219	312	416	459	459	459	459	459	459	459	459	459	459	459	
		3000r/min	N.m	4.3	7.17	10.7	14.3	20.4	27	34	40.8	45	45	45	45	45	45	45	45	45	
			Kg.cm	44	73	109	146	208	275	347	416	459	459	459	459	459	459	459	459	459	

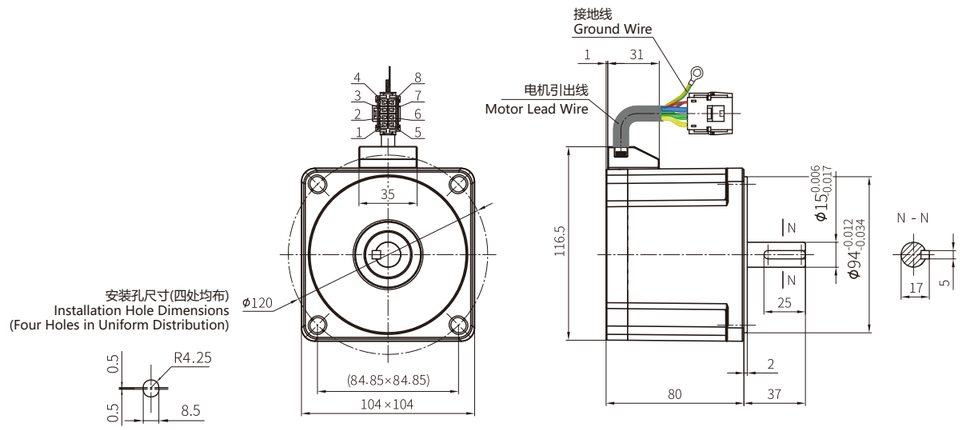
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100圆轴型系列 无刷直流电机 100 ROUND SHAFT SERIES



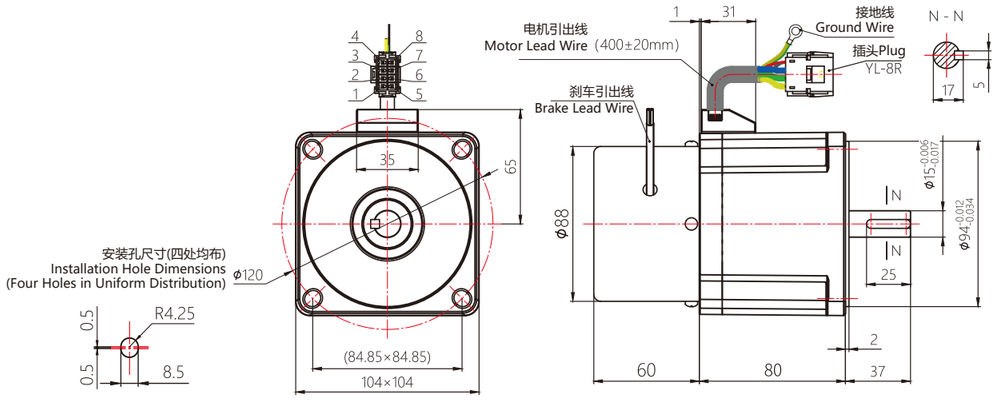
端子及接线示意图
Schematic Diagram of Terminals and Wiring

1	2	3	4	5	6	7	8
U	V	W	VCC	Hu	Hv	Hw	GND
黄(粗) Yellow (Trick)	绿(粗) Green (Trick)	蓝(粗) Blue (Trick)	红(细) Red (Fine)	黄(细) Yellow (Fine)	绿(细) Green (Fine)	蓝(细) Blue (Fine)	黑(细) Black (Fine)

圆轴型安装尺寸图 Installation Dimension Drawing of Round Shaft Type



制动型圆轴安装尺寸图 Installation Dimension Drawing of Brake - type Round Shaft



● 60型电机性能参数 Motor Performance Parameters

电机型号 Motor Model	电压 Voltage(V)	额定功率 Rated Power(W)	额定电流 Rated Current(A)	额定转速 Rated Speed(RPM)	额定力矩 Rated Torque(N.m)
C2BLD	DC12V	15	2.1	2000	0.07
			2	3000	0.05
		20	2.7	2000	0.09
			2.5	3000	0.06
		25	3.5	2000	0.11
			3.4	3000	0.08
	DC24V	15	1	2000	0.07
			0.9	3000	0.05
		20	1.4	2000	0.09
			1.3	3000	0.06
		25	1.7	2000	0.12
			1.8	3000	0.08
		30	2.1	2000	0.14
			2.2	3000	0.1
		40	2.8	2000	0.19
			2.7	3000	0.13
	DC48V	15	0.5	2000	0.07
			0.4	3000	0.05
		20	0.7	2000	0.09
			0.6	3000	0.06
		25	0.9	2000	0.12
			0.8	3000	0.08
		30	1.1	2000	0.14
			0.9	3000	0.1
		40	1.4	2000	0.19
			1.3	3000	0.13
	AC220V	30	0.42	3000	0.1
		40	0.56	3000	0.13

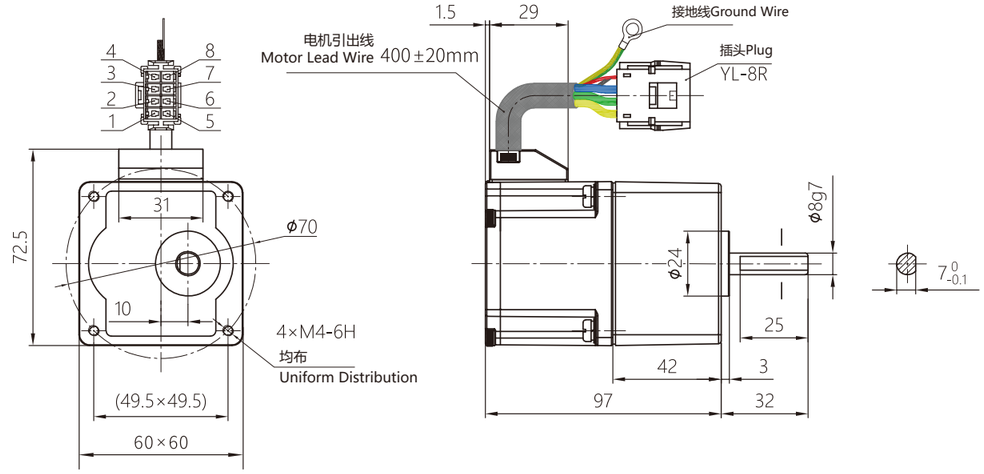
● 60型减速电机扭矩表 Gear Head-Torque Table

减速比 Gear Ratio				3	5	7.5	10	15	20	25	30	40	50	60	75	100	150	180	200	最大允许负载 (kg.cm)
减速机最大允许力矩(N.m)	15W	2000r/min	N.m	0.19	0.32	0.47	0.63	0.94	1.2	1.5	1.8	2.4	3	3	3	3	3	3	3	31
			Kg.cm	1.9	3.3	4.8	6.4	9.6	12	15	18	24	31	31	31	31	31	31	31	
		3000r/min	N.m	0.15	0.23	0.32	0.42	0.64	0.85	1.1	1.27	1.7	2.14	2.5	3	3	3	3	3	
			Kg.cm	1.5	2.3	3.3	4.3	6.5	8.7	11	13	17	22	25	31	31	31	31	31	
	20W	2000r/min	N.m	0.26	0.41	0.61	0.81	1.22	1.54	1.93	2.31	3	3	3	3	3	3	3	3	
			Kg.cm	2.7	4.2	6.2	8.3	12.4	15.7	19.7	23.6	31	31	31	31	31	31	31	31	
		3000r/min	N.m	0.17	0.27	0.41	0.54	0.81	1	1.29	1.54	2.05	2.57	2.93	3	3	3	3	3	
			Kg.cm	1.7	2.8	4.2	5.5	8.3	10	13	15.7	21	25	29.9	31	31	31	31	31	
	25W	2000r/min	N.m	0.31	0.5	0.74	0.99	1.49	1.89	2.35	2.83	3	3	3	3	3	3	3	3	
			Kg.cm	3.2	5	7.5	10	15	19	24	29	31	31	31	31	31	31	31	31	
		3000r/min	N.m	0.23	0.36	0.54	0.72	1.1	1.37	1.7	2.05	2.74	3	3	3	3	3	3	3	
			Kg.cm	2.3	3.7	5.5	7.3	11	14	17	21	28	31	31	31	31	31	31	31	
	30W	2000r/min	N.m	0.4	0.63	0.95	1.26	1.9	2.4	3	3	3	3	3	3	3	3	3	3	
			Kg.cm	4	6.4	9.7	12.8	19	24	31	31	31	31	31	31	31	31	31	31	
		3000r/min	N.m	0.29	0.45	0.67	0.9	1.35	1.7	2.1	2.57	3	3	3	3	3	3	3	3	
			Kg.cm	3	4.6	6.8	9	13.7	17	21	26	31	31	31	31	31	31	31	31	
	40W	2000r/min	N.m	0.54	0.86	1.29	1.7	2.57	3	3	3	3	3	3	3	3	3	3	3	
			Kg.cm	5.5	8.8	13	17	26	31	31	31	31	31	31	31	31	31	31	31	
		3000r/min	N.m	0.37	0.59	0.88	1.17	1.75	2.23	2.79	3	3	3	3	3	3	3	3	3	
			Kg.cm	3.8	6	9	12	18	23	28	31	31	31	31	31	31	31	31	31	

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安装尺寸图 Installation Dimension Drawing



端子及接线示意图 Schematic Diagram of Terminals and Wiring

1	2	3	4	5	6	7	8
U	V	W	VCC	Hu	Hv	Hw	GND
黄(粗) Yellow (Trick)	绿(粗) Green (Trick)	蓝(粗) Blue (Trick)	红(细) Red (Fine)	黄(细) Yellow (Fine)	绿(细) Green (Fine)	蓝(细) Blue (Fine)	黑(细) Black (Fine)

● 70型电机性能参数 Motor Performance Parameters

电机型号 Motor Model	电压 Voltage(V)	额定功率 Rated Power(W)	额定电流 Rated Current(A)	额定转速 Rated Speed(RPM)	额定力矩 Rated Torque(N.m)
C3BLD	DC12V	15	2.1	2000	0.07
			2	3000	0.05
		20	2.7	2000	0.09
			2.5	3000	0.06
		25	3.5	2000	0.11
			3.4	3000	0.08
	DC24V	15	1	2000	0.07
			0.9	3000	0.05
		20	1.4	2000	0.09
			1.3	3000	0.06
		25	1.7	2000	0.12
			1.8	3000	0.08
		30	2.1	2000	0.14
			2.2	3000	0.1
		40	2.8	2000	0.19
			2.7	3000	0.13
	DC48V	15	0.5	2000	0.07
			0.4	3000	0.05
		20	0.7	2000	0.09
			0.6	3000	0.06
		25	0.9	2000	0.12
			0.8	3000	0.08
		30	1.1	2000	0.14
			0.9	3000	0.1
		40	1.4	2000	0.19
			1.3	3000	0.13
	AC220V	30	0.42	3000	0.1
		40	0.56	3000	0.13

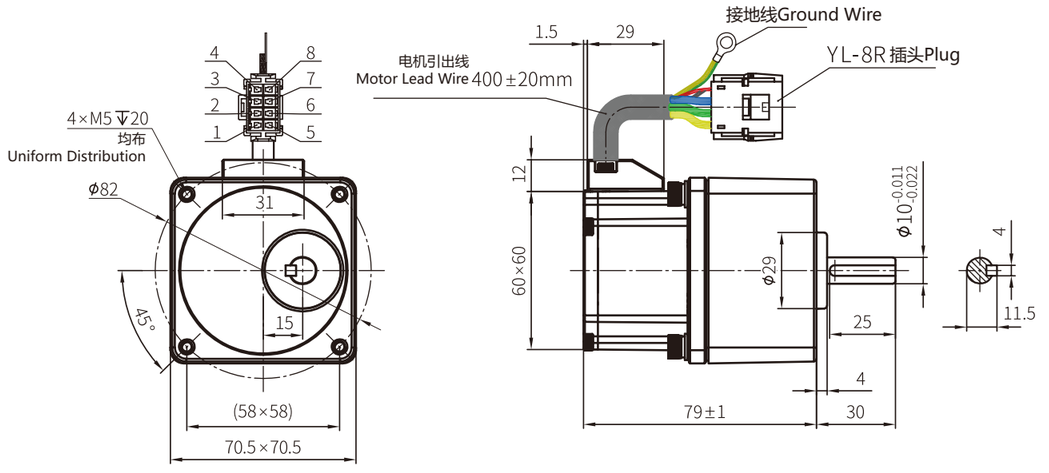
● 70型减速电机扭矩表 Gear Head-Torque Table

减速比 Gear Ratio				3	5	7.5	10	15	20	25	30	40	50	60	75	100	120	150	200	最大允许负载 (kg.cm)
减速机最大允许力矩(N.m)	15W	2000r/min	N.m	0.19	0.32	0.47	0.63	0.94	1.2	1.5	1.8	2.4	3	3.5	4.28	5	5	5	5	51
			Kg.cm	1.9	3.3	4.8	6.4	9.6	12	15	18	24	31	35.7	44	51	51	51	51	
		3000r/min	N.m	0.15	0.23	0.32	0.42	0.64	0.85	1.1	1.27	1.7	2.14	2.5	3.2	4.2	5	5	5	
			Kg.cm	1.5	2.3	3.3	4.3	6.5	8.7	11	13	17	22	25	33	43	51	51	51	
	20W	2000r/min	N.m	0.26	0.41	0.61	0.81	1.22	1.54	1.93	2.31	3.1	3.86	4.62	5	5	5	5	5	
			Kg.cm	2.7	4.2	6.2	8.3	12.4	15.7	19.7	23.6	32	39	47	51	51	51	51	51	
		3000r/min	N.m	0.17	0.27	0.41	0.54	0.81	1	1.29	1.54	2.05	2.57	2.93	3.67	4.88	5	5	5	
			Kg.cm	1.7	2.8	4.2	5.5	8.3	10	13	15.7	21	25	29.9	37	50	51	51	51	
	25W	2000r/min	N.m	0.31	0.5	0.74	0.99	1.49	1.89	2.35	2.83	3.77	4.72	5	5	5	5	5	5	
			Kg.cm	3.2	5	7.5	10	15	19	24	29	38	48	51	51	51	51	51	51	
		3000r/min	N.m	0.23	0.36	0.54	0.72	1.1	1.37	1.7	2.05	2.74	3.42	3.9	4.88	5	5	5	5	
			Kg.cm	2.3	3.7	5.5	7.3	11	14	17	21	28	35	40	50	51	51	51	51	
	30W	2000r/min	N.m	0.4	0.63	0.95	1.26	1.9	2.4	3	3.6	4.8	5	5	5	5	5	5	5	
			Kg.cm	4	6.4	9.7	12.8	19	24	31	37	49	51	51	51	51	51	51	51	
		3000r/min	N.m	0.29	0.45	0.67	0.9	1.35	1.7	2.1	2.57	3.42	4.28	4.88	5	5	5	5	5	
			Kg.cm	3	4.6	6.8	9	13.7	17	21	26	35	44	50	51	51	51	51	51	
	40W	2000r/min	N.m	0.54	0.86	1.29	1.7	2.57	3.26	4	4.88	5	5	5	5	5	5	5	5	
			Kg.cm	5.5	8.8	13	17	26	33	41	50	51	51	51	51	51	51	51	51	
		3000r/min	N.m	0.37	0.59	0.88	1.17	1.75	2.23	2.79	3.34	4.46	5	5	5	5	5	5	5	
			Kg.cm	3.8	6	9	12	18	23	28	34	46	51	51	51	51	51	51	51	

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安装尺寸图 Installation Dimension Drawing



端子及接线示意图 Schematic Diagram of Terminals and Wiring

1	2	3	4	5	6	7	8
U	V	W	VCC	Hu	Hv	Hw	GND
黄(粗) Yellow (Trick)	绿(粗) Green (Trick)	蓝(粗) Blue (Trick)	红(细) Red (Fine)	黄(细) Yellow (Fine)	绿(细) Green (Fine)	蓝(细) Blue (Fine)	黑(细) Black (Fine)

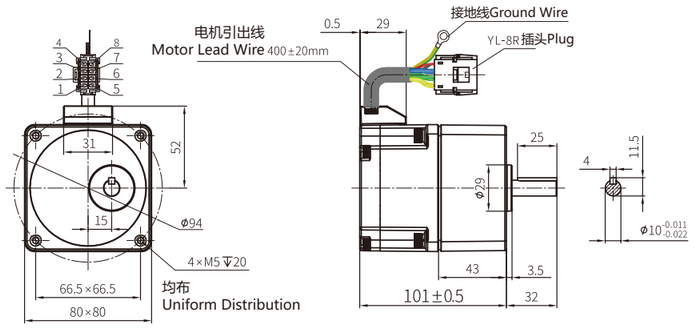


● 80型电机性能参数 Motor Performance Parameters

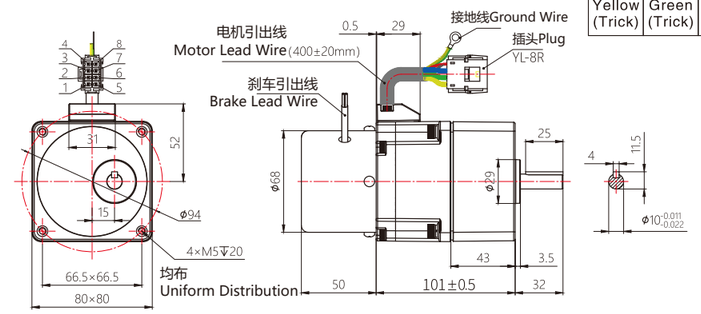
电机型号 Motor Model	电压 Voltage(V)	额定功率 Rated Power(W)	额定电流 Rated Current(A)	额定转速 Rated Speed(RPM)	额定力矩 Rated Torque(N.m)
C4BLD	DC12V	25	3.2	2000	0.12
			3	3000	0.08
		40	5.1	2000	0.19
			4.9	3000	0.13
		60	7.7	2000	0.29
			7.3	3000	0.19
		90	11.5	2000	0.43
			11	3000	0.29
		120	15.4	2000	0.57
			14.7	3000	0.38
	DC24V	25	1.6	2000	0.12
			1.5	3000	0.08
		40	2.6	2000	0.19
			2.4	3000	0.13
		60	3.8	2000	0.29
			3.6	3000	0.19
		90	5.8	2000	0.43
			5.5	3000	0.29
		120	7.7	2000	0.57
			7.3	3000	0.38
	DC48V	25	0.8	2000	0.12
			0.7	3000	0.08
		40	1.3	2000	0.19
			1.2	3000	0.13
		60	1.9	2000	0.29
			1.8	3000	0.19
		90	2.9	2000	0.43
			2.8	3000	0.29
		120	3.8	2000	0.57
			3.6	3000	0.38
	DC110V	40	1.1	2000	0.19
			0.9	3000	0.13
		60	1.53	2000	0.29
			1.5	3000	0.19
		90	2.28	2000	0.43
			2.2	3000	0.29
		120	3	2000	0.57
			2.9	3000	0.38
	AC220V	40	0.56	2000	0.19
			0.46	3000	0.13
		60	0.76	2000	0.29
			0.73	3000	0.19
		90	1.15	2000	0.43
			1.1	3000	0.29
		120	1.53	2000	0.57
			1.5	3000	0.38

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THE WAY OF INHERITANCE IS STEADY AND FAR-REACHING
传动装置专业制造商
PROFESSIONAL MANUFACTURER OF TRANSMISSION DEVICE
80平行轴系列 无刷直流电机 80 RARLLEL SHAFT SERIES

平行轴安装尺寸图 Installation Dimension Drawing of Parallel Shaft



制动型平行轴安装尺寸图
Installation Dimension Drawing of Brake - type Round Shaft



端子及接线示意图
Schematic Diagram of Terminals and Wiring

1	2	3	4	5	6	7	8
U	V	W	VCC	Hu	Hv	Hw	GND
黄(粗) Yellow (Trick)	绿(粗) Green (Trick)	蓝(粗) Blue (Trick)	红(细) Red (Fine)	黄(细) Yellow (Fine)	绿(细) Green (Fine)	蓝(细) Blue (Fine)	黑(细) Black (Fine)

● 80型减速电机扭矩表 Gear Head-Torque Table

减速比 Gear Ratio				3	5	7.5	10	15	20	25	30	40	50	60	75	100	120	150	200	最大允许负载 (kg.cm)
减速机最大允许力矩(N.m)	25W	2000r/min	N.m	0.34	0.54	0.8	1.1	1.6	2.1	2.57	3.1	4.1	4.88	5.86	7.33	8	8	8	8	82
			Kg.cm	3.5	5.6	8	11	16	20	26	32	42	50	60	75	82	82	82	82	
		3000r/min	N.m	0.23	0.36	0.54	0.72	1.1	1.37	1.7	2.05	2.74	3.42	3.9	4.88	6.5	7.8	7.8	7.8	
			Kg.cm	2.3	3.7	5.5	7.3	11	14	17	21	28	35	40	50	66	80	80	80	
	40W	2000r/min	N.m	0.54	0.86	1.29	1.7	2.57	3.26	4	4.88	6.5	7.74	8	8	8	8	8	8	
			Kg.cm	5.5	8.8	13	17	26	33	41	50	66	79	82	82	82	82	82	82	
		3000r/min	N.m	0.37	0.59	0.88	1.17	1.75	2.23	2.79	3.34	4.46	5.29	6.35	7.9	8	8	8	8	
			Kg.cm	3.8	6	9	12	18	23	28	34	46	54	65	81	82	82	82	82	
	60W	2000r/min	N.m	0.83	1.3	1.96	2.61	3.92	4.97	6.22	7.46	8	8	8	8	8	8	8	8	
			Kg.cm	8.5	13	20	26	40	50	63	76	82	82	82	82	82	82	82	82	
		3000r/min	N.m	0.54	0.86	1.29	1.7	2.57	3.26	4	4.88	6.5	7.74	8	8	8	8	8	8	
			Kg.cm	5.5	8.8	13	17	26	33	41	50	66	79	82	82	82	82	82	82	
	90W	2000r/min	N.m	1.23	1.94	2.91	3.88	5.82	7.37	8	8	8	8	8	8	8	8	8	8	
			Kg.cm	12.6	20	29	40	59	75	82	82	82	82	82	82	82	82	82	82	
		3000r/min	N.m	0.83	1.3	1.96	2.61	3.92	4.97	6.22	7.46	8	8	8	8	8	8	8	8	
			Kg.cm	8.5	13	20	26	40	50	63	76	82	82	82	82	82	82	82	82	
	120W	2000r/min	N.m	1.62	2.57	3.86	5.1	7.71	8	8	8	8	8	8	8	8	8	8	8	
			Kg.cm	16.5	26	39	52	79	82	82	82	82	82	82	82	82	82	82	82	
		3000r/min	N.m	1.08	1.71	2.57	3.42	5.14	6.5	8	8	8	8	8	8	8	8	8	8	
			Kg.cm	11	17	26	35	52	66	82	82	82	82	82	82	82	82	82	82	

90型电机性能参数 Motor Performance Parameters

电机型号 Motor Model	电压 Voltage(V)	额定功率 Rated Power(W)	额定电流 Rated Current(A)	额定转速 Rated Speed(RPM)	额定力矩 Rated Torque(N.m)
C5BLD	DC24V	60	3.3	2000	0.29
			3.2	3000	0.19
		90	5	2000	0.43
			4.8	3000	0.29
		120	6.7	2000	0.57
			6.4	3000	0.38
		150	8.3	2000	0.72
			8	3000	0.48
		200	11.1	2000	0.96
			10.6	3000	0.64
	DC48V	60	1.7	2000	0.29
			1.6	3000	0.19
		90	2.5	2000	0.43
			2.4	3000	0.29
		120	3.3	2000	0.57
			3.2	3000	0.38
		150	4.2	2000	0.72
			4	3000	0.48
		200	5.6	2000	0.96
			5.3	3000	0.64
	AC110V	60	1.3	2000	0.29
			1.2	3000	0.19
		90	1.95	2000	0.43
			1.9	3000	0.29
		120	2.6	2000	0.57
			2.2	3000	0.38
		150	3.2	2000	0.72
			3	3000	0.48
		200	4.3	2000	0.96
			4	3000	0.64
	AC210V	60	0.65	2000	0.29
			0.55	3000	0.19
		90	0.98	2000	0.43
			0.9	3000	0.29
		120	1.3	2000	0.57
			1.1	3000	0.38
		150	1.62	2000	0.72
			1.5	3000	0.48
		200	2.15	2000	0.96
			2	3000	0.64

90型减速电机扭矩表 Gear Head-Torque Table

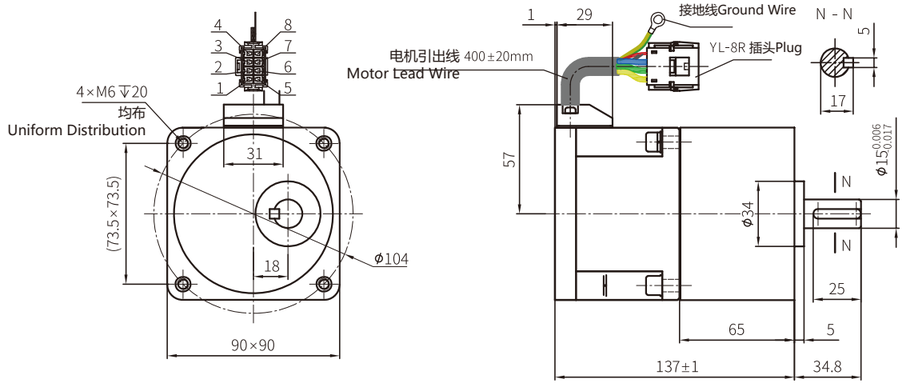
减速比 Gear Ratio				3	5	7.5	10	15	20	25	30	40	50	60	75	100	120	150	200	最大允许负载 (kg.cm)
减速机最大允许力矩(N.m)	60W	2000r/min	N.m	0.79	1.3	1.96	2.61	3.92	4.97	6.22	7.46	9.95	11.8	14.2	17.7	20	20	20	20	204
			Kg.cm	8.5	13	20	26	40	50	63	76	101	120	145	180	204	204	204	204	
		3000r/min	N.m	0.51	0.86	1.29	1.7	2.57	3.26	4	4.88	6.51	7.73	9.29	11.6	15.5	18.6	20	20	
			Kg.cm	5.5	8.8	13	17	26	33	41	50	66	79	95	118	158	190	204	204	
	90W	2000r/min	N.m	1.16	1.94	2.91	3.88	5.82	7.37	9.21	11	14.7	17.5	20	20	20	20	20	20	
			Kg.cm	12.6	20	29	40	59	75	94	112	150	179	204	204	204	204	204	204	
		3000r/min	N.m	0.79	1.3	1.96	2.61	3.92	4.97	6.22	7.46	9.95	11.8	14.2	17.7	20	20	20	20	
			Kg.cm	8.5	13	20	26	40	50	63	76	101	120	145	180	204	204	204	204	
	120W	2000r/min	N.m	1.54	2.57	3.86	5.1	7.71	9.77	12.2	14.7	19.5	20	20	20	20	20	20	20	
			Kg.cm	15.7	26	39	52	79	100	124	150	199	204	204	204	204	204	204	204	
		3000r/min	N.m	1	1.71	2.57	3.42	5.14	6.5	8.14	9.77	13	15.5	18.6	20	20	20	20	20	
			Kg.cm	10	17	26	35	52	66	83	100	133	158	190	204	204	204	204	204	
	150W	2000r/min	N.m	1.95	3.25	4.87	6.5	9.26	12.35	15.43	18.52	20	20	20	20	20	20	20	20	
			Kg.cm	20	33	50	66	94	126	157	189	204	204	204	204	204	204	204	204	
		3000r/min	N.m	1.3	2.17	3.25	4.33	6.17	8.23	10.29	12.35	16.46	19.55	20	20	20	20	20	20	
			Kg.cm	13	22	33	44	63	84	105	126	167	199	204	204	204	204	204	204	
	200W	2000r/min	N.m	2.6	4.33	6.5	8.66	12.35	16.46	20	20	20	20	20	20	20	20	20	20	
			Kg.cm	27	44	66	88	126	167	205	204	204	204	204	204	204	204	204	204	
		3000r/min	N.m	1.73	2.89	4.33	5.77	8.23	10.97	13.7	16.46	20	20	20	20	20	20	20	20	
			Kg.cm	18	29	44	59	84	111	140	168	204	204	204	204	204	204	204	204	



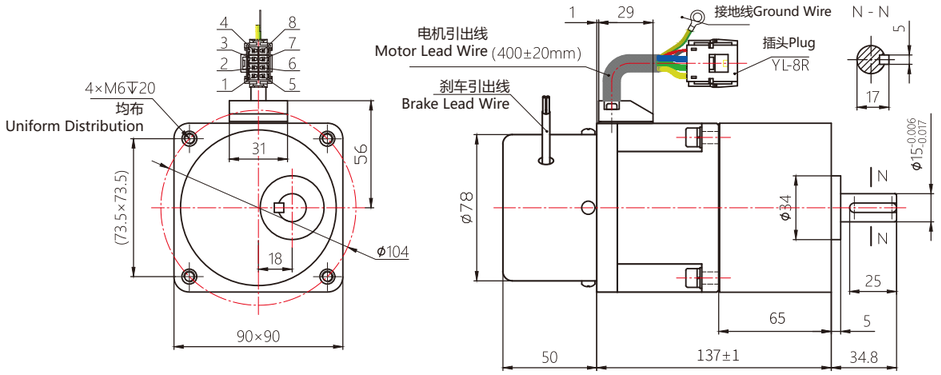
端子及接线示意图
Schematic Diagram of Terminals and Wiring

1	2	3	4	5	6	7	8
U	V	W	VCC	Hu	Hv	Hw	GND
黄(粗) Yellow (Trick)	绿(粗) Green (Trick)	蓝(粗) Blue (Trick)	红(细) Red (Fine)	黄(细) Yellow (Fine)	绿(细) Green (Fine)	蓝(细) Blue (Fine)	黑(细) Black (Fine)

平行轴安装尺寸图 Installation Dimension Drawing of Parallel Shaft



制动型平行轴安装尺寸图 Installation Dimension Drawing of Brake - type Round Shaft



• 100型电机性能参数 Motor Performance Parameters

电机型号 Motor Model	电压 Voltage(V)	额定功率 Rated Power(W)	额定电流 Rated Current(A)	额定转速 Rated Speed(RPM)	额定力矩 Rated Torque(N.m)
C6BLD	DC24V	200	10.4	2000	0.96
			10	3000	0.64
		300	15.6	2000	1.43
			15	3000	0.96
		400	20.8	2000	1.91
			20.3	3000	1.27
	DC48V	200	5.2	2000	0.96
			5	3000	0.64
		300	7.8	2000	1.43
			7.6	3000	0.96
		400	10.4	2000	1.91
			10	3000	1.27
	AC110V	200	3.7	2000	0.96
			3.6	3000	0.64
		300	5.5	2000	1.43
			5.2	3000	0.96
		400	7.3	2000	1.91
			7	3000	1.27
	AC220V	200	1.8	2000	0.96
			1.7	3000	0.64
		300	2.75	2000	1.43
			2.6	3000	0.96
		400	3.7	2000	1.91
			3.6	3000	1.27
		500	4.58	2000	2.38
			4.4	3000	1.59

• 100型减速电机扭矩表 Gear Head-Torque Table

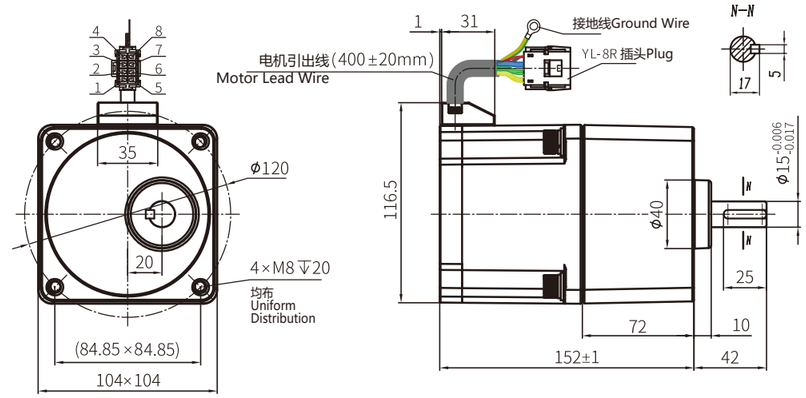
减速比 Gear Ratio				3	5	7.5	10	15	20	25	30	40	50	60	75	100	120	150	200	300	最大允许负载 (kg.cm)
减速机最大允许力矩(N.m)	200W	2000r/min	N.m	2.6	4.33	6.5	8.66	12.35	16.46	20.58	24.69	32.9	39	45	45	45	45	45	45	45	459
			Kg.cm	27	44	66	88	126	167	210	252	335	398	459	459	459	459	459	459	459	
		3000r/min	N.m	1.73	2.89	4.33	5.77	8.23	10.97	13.7	16.46	21.6	26	31.27	39	45	45	45	45	45	
			Kg.cm	18	29	44	59	84	111	140	168	220	265	319	398	459	459	459	459	459	
	300W	2000r/min	N.m	3.87	6.45	9.68	12.9	18.39	24.5	30.65	36.78	45	45	45	45	45	45	45	45	45	
			Kg.cm	39	66	99	132	188	250	313	375	459	459	459	459	459	459	459	459	459	
		3000r/min	N.m	2.6	4.33	6.5	8.66	12.35	16.46	20.58	24.69	32.9	39	45	45	45	45	45	45	45	
			Kg.cm	27	44	66	88	126	167	210	252	335	398	459	459	459	459	459	459	459	
	400W	2000r/min	N.m	5.17	8.62	12.9	17.2	24.56	32.75	40.9	45	45	45	45	45	45	45	45	45	45	
			Kg.cm	53	88	132	176	251	334	417	459	459	459	459	459	459	459	459	459	459	
		3000r/min	N.m	3.44	5.73	8.59	11.5	16.3	21.8	27	32.7	43.5	45	45	45	45	45	45	45	45	
			Kg.cm	35	58	88	117	166	222	276	333	444	459	459	459	459	459	459	459	459	
	500W	2000r/min	N.m	6.44	10.73	16	21.5	30.6	40.8	45	45	45	45	45	45	45	45	45	45	45	
			Kg.cm	66	109	163	219	312	416	459	459	459	459	459	459	459	459	459	459	459	
		3000r/min	N.m	4.3	7.17	10.7	14.3	20.4	27	34	40.8	45	45	45	45	45	45	45	45	45	
			Kg.cm	44	73	109	146	208	275	347	416	459	459	459	459	459	459	459	459	459	



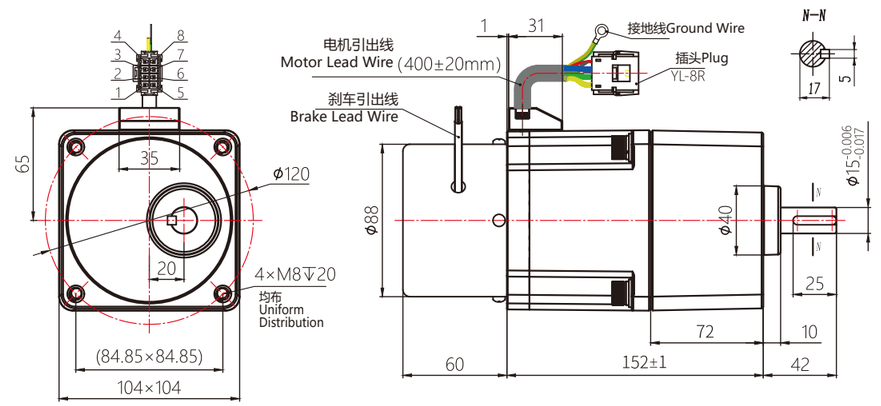
端子及接线示意图
Schematic Diagram of Terminals and Wiring

1	2	3	4	5	6	7	8
U	V	W	VCC	Hu	Hv	Hw	GND
黄(粗) Yellow (Trick)	绿(粗) Green (Trick)	蓝(粗) Blue (Trick)	红(细) Red (Fine)	黄(细) Yellow (Fine)	绿(细) Green (Fine)	蓝(细) Blue (Fine)	黑(细) Black (Fine)

平行轴安装尺寸图 Installation Dimension Drawing of Parallel Shaft



制动型平行轴安装尺寸图 Installation Dimension Drawing of Brake - type Round Shaft





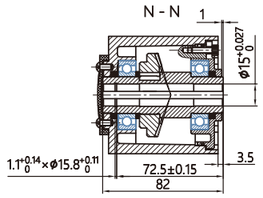
端子及接线示意图
Schematic Diagram of Terminals and Wiring

1	2	3	4	5	6	7	8
U	V	W	VCC	Hu	Hv	Hw	GND
黄(粗) Yellow (Trick)	绿(粗) Green (Trick)	蓝(粗) Blue (Trick)	红(细) Red (Fine)	黄(细) Yellow (Fine)	绿(细) Green (Fine)	蓝(细) Blue (Fine)	黑(细) Black (Fine)

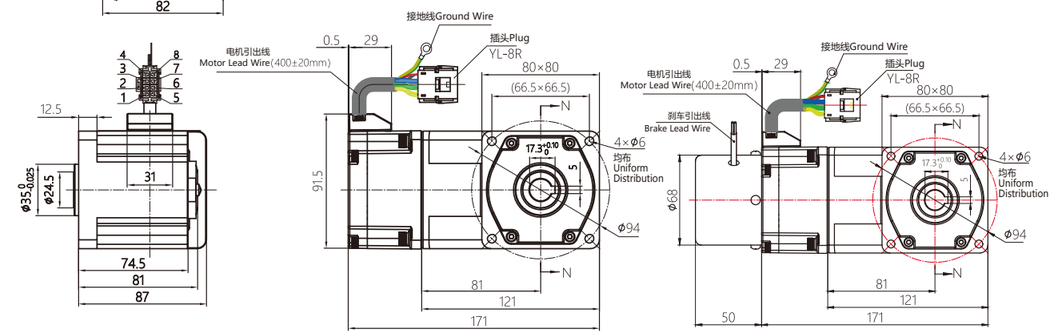
● 80型电机性能参数 Motor Performance Parameters

电机型号 Motor Model	电压 Voltage(V)	额定功率 Rated Power(W)	额定电流 Rated Current(A)	额定转速 Rated Speed(RPM)	额定力矩 Rated Torque(N.m)
C4BLD	DC12V	25	3.2	2000	0.12
			3	3000	0.08
		40	5.1	2000	0.19
			4.9	3000	0.13
		60	7.7	2000	0.29
			7.3	3000	0.19
		90	11.5	2000	0.43
			11	3000	0.29
		120	15.4	2000	0.57
			14.7	3000	0.38
	DC24V	25	1.6	2000	0.12
			1.5	3000	0.08
		40	2.6	2000	0.19
			2.4	3000	0.13
		60	3.8	2000	0.29
			3.6	3000	0.19
		90	5.8	2000	0.43
			5.5	3000	0.29
		120	7.7	2000	0.57
			7.3	3000	0.38
	DC48V	25	0.8	2000	0.12
			0.7	3000	0.08
		40	1.3	2000	0.19
			1.2	3000	0.13
		60	1.9	2000	0.29
			1.8	3000	0.19
		90	2.9	2000	0.43
			2.8	3000	0.29
		120	3.8	2000	0.57
			3.6	3000	0.38
	DC110V	40	1.1	2000	0.19
			0.9	3000	0.13
		60	1.53	2000	0.29
			1.5	3000	0.19
		90	2.28	2000	0.43
			2.2	3000	0.29
		120	3	2000	0.57
			2.9	3000	0.38
	AC220V	40	0.56	2000	0.19
			0.46	3000	0.13
		60	0.76	2000	0.29
			0.73	3000	0.19
		90	1.15	2000	0.43
			1.1	3000	0.29
		120	1.53	2000	0.57
			1.5	3000	0.38

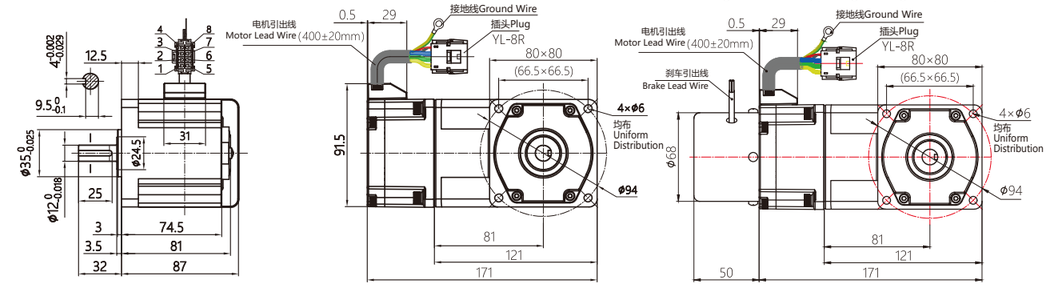
CHBNS 传承之道 稳行致远
THE WAY OF INHERITANCE IS STEADY AND FAR-REACHING
传动装置专业制造商
PROFESSIONAL MANUFACTURER OF TRANSMISSION DEVICE
80直交轴系列 无刷直流电机 80 ORTHOGONAL AXIS SERIES



制动型直角中空外形尺寸图
The dimensional drawing of brake-type right-angle hollow shape



制动型直角中实外形尺寸图
The dimensional drawing of brake-type right-angle solid shape



● 80型减速电机扭矩表 Gear Head-Torque Table

减速比 Gear Ratio				3	5	7.5	10	15	20	25	30	40	50	60	75	100	120	150	200	最大允许负载 (kg.cm)
减速机最大允许力矩(N.m)	25W	2000r/min	N.m	0.34	0.54	0.8	1.1	1.6	2.1	2.57	3.1	4.1	4.88	5.86	7.33	8	8	8	8	82
			Kg.cm	3.5	5.6	8	11	16	20	26	32	42	50	60	75	82	82	82	82	
		3000r/min	N.m	0.23	0.36	0.54	0.72	1.1	1.37	1.7	2.05	2.74	3.42	3.9	4.88	6.5	7.8	7.8	7.8	
			Kg.cm	2.3	3.7	5.5	7.3	11	14	17	21	28	35	40	50	66	80	80	80	
	40W	2000r/min	N.m	0.54	0.86	1.29	1.7	2.57	3.26	4	4.88	6.5	7.74	8	8	8	8	8	8	
			Kg.cm	5.5	8.8	13	17	26	33	41	50	66	79	82	82	82	82	82	82	
		3000r/min	N.m	0.37	0.59	0.88	1.17	1.75	2.23	2.79	3.34	4.46	5.29	6.35	7.9	8	8	8	8	
			Kg.cm	3.8	6	9	12	18	23	28	34	46	54	65	81	82	82	82	82	
	60W	2000r/min	N.m	0.83	1.3	1.96	2.61	3.92	4.97	6.22	7.46	8	8	8	8	8	8	8	8	
			Kg.cm	8.5	13	20	26	40	50	63	76	82	82	82	82	82	82	82	82	
		3000r/min	N.m	0.54	0.86	1.29	1.7	2.57	3.26	4	4.88	6.5	7.74	8	8	8	8	8	8	
			Kg.cm	5.5	8.8	13	17	26	33	41	50	66	79	82	82	82	82	82	82	
	90W	2000r/min	N.m	1.23	1.94	2.91	3.88	5.82	7.37	8	8	8	8	8	8	8	8	8	8	
			Kg.cm	12.6	20	29	40	59	75	82	82	82	82	82	82	82	82	82	82	
		3000r/min	N.m	0.83	1.3	1.96	2.61	3.92	4.97	6.22	7.46	8	8	8	8	8	8	8	8	
			Kg.cm	8.5	13	20	26	40	50	63	76	82	82	82	82	82	82	82	82	
	120W	2000r/min	N.m	1.62	2.57	3.86	5.1	7.71	8	8	8	8	8	8	8	8	8	8	8	
			Kg.cm	16.5	26	39	52	79	82	82	82	82	82	82	82	82	82	82	82	
		3000r/min	N.m	1.08	1.71	2.57	3.42	5.14	6.5	8	8	8	8	8	8	8	8	8	8	
			Kg.cm	11	17	26	35	52	66	82	82	82	82	82	82	82	82	82	82	





端子及接线示意图
Schematic Diagram of Terminals and Wiring

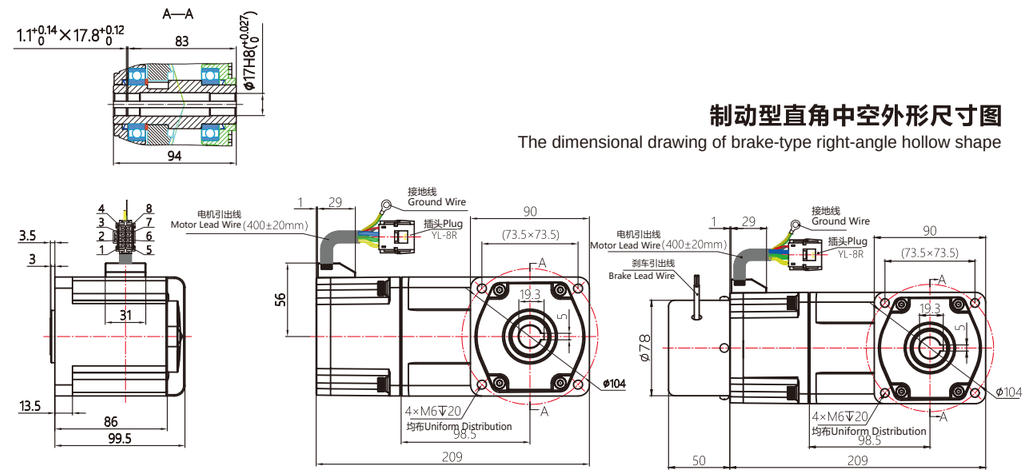
1	2	3	4	5	6	7	8
U	V	W	VCC	Hu	Hv	Hw	GND
黄(粗) Yellow (Trick)	绿(粗) Green (Trick)	蓝(粗) Blue (Trick)	红(细) Red (Fine)	黄(细) Yellow (Fine)	绿(细) Green (Fine)	蓝(细) Blue (Fine)	黑(细) Black (Fine)

90型电机性能参数
Motor Performance Parameters

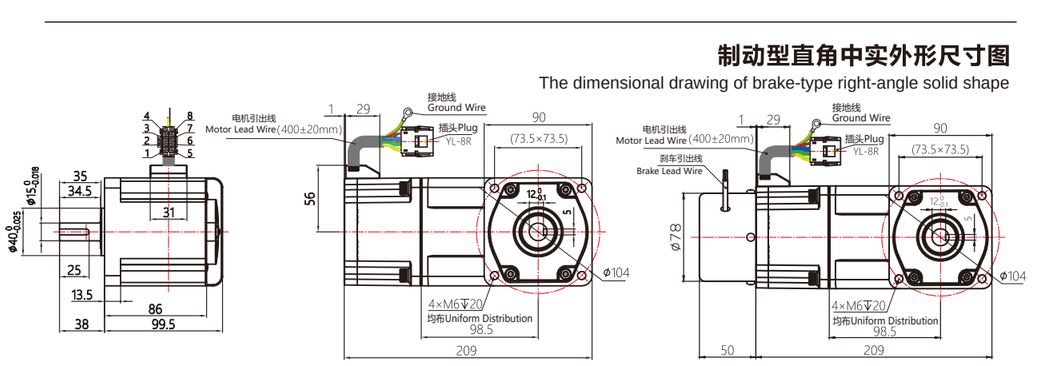
电机型号 Motor Model	电压 Voltage(V)	额定功率 Rated Power(W)	额定电流 Rated Current(A)	额定转速 Rated Speed(RPM)	额定力矩 Rated Torque(N.m)
C5BLD	DC24V	60	3.3	2000	0.29
			3.2	3000	0.19
		90	5	2000	0.43
			4.8	3000	0.29
		120	6.7	2000	0.57
			6.4	3000	0.38
		150	8.3	2000	0.72
			8	3000	0.48
		200	11.1	2000	0.96
			10.6	3000	0.64
	DC48V	60	1.7	2000	0.29
			1.6	3000	0.19
		90	2.5	2000	0.43
			2.4	3000	0.29
		120	3.3	2000	0.57
			3.2	3000	0.38
		150	4.2	2000	0.72
			4	3000	0.48
		200	5.6	2000	0.96
			5.3	3000	0.64
	AC110V	60	1.3	2000	0.29
			1.2	3000	0.19
		90	1.95	2000	0.43
			1.9	3000	0.29
		120	2.6	2000	0.57
			2.2	3000	0.38
		150	3.2	2000	0.72
			3	3000	0.48
		200	4.3	2000	0.96
			4	3000	0.64
	AC220V	60	0.65	2000	0.29
			0.55	3000	0.19
		90	0.98	2000	0.43
			0.9	3000	0.29
		120	1.3	2000	0.57
			1.1	3000	0.38
		150	1.62	2000	0.72
			1.5	3000	0.48
		200	2.15	2000	0.96
			2	3000	0.64

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90直交轴系列 无刷直流电机 90 ORTHOGONAL AXIS SERIES

制动型直角中空外形尺寸图
The dimensional drawing of brake-type right-angle hollow shape



制动型直角中实外形尺寸图
The dimensional drawing of brake-type right-angle solid shape



90型减速电机扭矩表 Gear Head-Torque Table

减速比 Gear Ratio				3	5	7.5	10	15	20	25	30	40	50	60	75	100	120	150	200	最大允许负载 (kg.cm)
减速机最大允许力矩(N.m)	60W	2000r/min	N.m	0.79	1.3	1.96	2.61	3.92	4.97	6.22	7.46	9.95	11.8	14.2	17.7	20	20	20	20	204
			Kg.cm	8.5	13	20	26	40	50	63	76	101	120	145	180	204	204	204	204	
		3000r/min	N.m	0.51	0.86	1.29	1.7	2.57	3.26	4	4.88	6.51	7.73	9.29	11.6	15.5	18.6	20	20	
			Kg.cm	5.5	8.8	13	17	26	33	41	50	66	79	95	118	158	190	204	204	
	90W	2000r/min	N.m	1.16	1.94	2.91	3.88	5.82	7.37	9.21	11	14.7	17.5	20	20	20	20	20	20	
			Kg.cm	12.6	20	29	40	59	75	94	112	150	179	204	204	204	204	204	204	
		3000r/min	N.m	0.79	1.3	1.96	2.61	3.92	4.97	6.22	7.46	9.95	11.8	14.2	17.7	20	20	20	20	
			Kg.cm	8.5	13	20	26	40	50	63	76	101	120	145	180	204	204	204	204	
	120W	2000r/min	N.m	1.54	2.57	3.86	5.1	7.71	9.77	12.2	14.7	19.5	20	20	20	20	20	20	20	
			Kg.cm	15.7	26	39	52	79	100	124	150	199	204	204	204	204	204	204	204	
		3000r/min	N.m	1	1.71	2.57	3.42	5.14	6.5	8.14	9.77	13	15.5	18.6	20	20	20	20	20	
			Kg.cm	10	17	26	35	52	66	83	100	133	158	190	204	204	204	204	204	
	150W	2000r/min	N.m	1.95	3.25	4.87	6.5	9.26	12.35	15.43	18.52	20	20	20	20	20	20	20	20	
			Kg.cm	20	33	50	66	94	126	157	189	204	204	204	204	204	204	204	204	
		3000r/min	N.m	1.3	2.17	3.25	4.33	6.17	8.23	10.29	12.35	16.46	19.55	20	20	20	20	20	20	
			Kg.cm	13	22	33	44	63	84	105	126	167	199	204	204	204	204	204	204	
	200W	2000r/min	N.m	2.6	4.33	6.5	8.66	12.35	16.46	20	20	20	20	20	20	20	20	20	20	
			Kg.cm	27	44	66	88	126	167	205	204	204	204	204	204	204	204	204	204	
		3000r/min	N.m	1.73	2.89	4.33	5.77	8.23	10.97	13.7	16.46	20	20	20	20	20	20	20	20	
			Kg.cm	18	29	44	59	84	111	140	168	204	204	204	204	204	204	204	204	

• 100型电机性能参数 Motor Performance Parameters

电机型号 Motor Model	电压 Voltage(V)	额定功率 Rated Power(W)	额定电流 Rated Current(A)	额定转速 Rated Speed(RPM)	额定力矩 Rated Torque(N.m)
C6BLD	DC24V	200	10.4	2000	0.96
			10	3000	0.64
		300	15.6	2000	1.43
			15	3000	0.96
		400	20.8	2000	1.91
			20.3	3000	1.27
	DC48V	200	5.2	2000	0.96
			5	3000	0.64
		300	7.8	2000	1.43
			7.6	3000	0.96
		400	10.4	2000	1.91
			10	3000	1.27
	AC110V	200	3.7	2000	0.96
			3.6	3000	0.64
		300	5.5	2000	1.43
			5.2	3000	0.96
		400	7.3	2000	1.91
			7	3000	1.27
	AC220V	200	1.8	2000	0.96
			1.7	3000	0.64
		300	2.75	2000	1.43
			2.6	3000	0.96
		400	3.7	2000	1.91
			3.6	3000	1.27
		500	4.58	2000	2.38
			4.4	3000	1.59

• 100型减速电机扭矩表 Gear Head-Torque Table

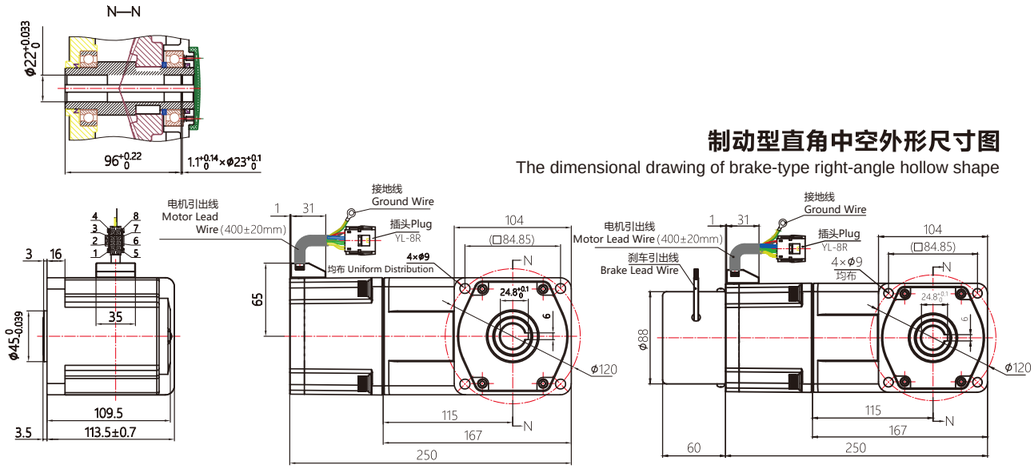
减速比 Gear Ratio				3	5	7.5	10	15	20	25	30	40	50	60	75	100	120	150	200	300	最大允许负载 (kg.cm)
减速机最大允许力矩(N.m)	200W	2000r/min	N.m	2.6	4.33	6.5	8.66	12.35	16.46	20.58	24.69	32.9	39	45	45	45	45	45	45	45	459
			Kg.cm	27	44	66	88	126	167	210	252	335	398	459	459	459	459	459	459	459	
		3000r/min	N.m	1.73	2.89	4.33	5.77	8.23	10.97	13.7	16.46	21.6	26	31.27	39	45	45	45	45	45	
			Kg.cm	18	29	44	59	84	111	140	168	220	265	319	398	459	459	459	459	459	
	300W	2000r/min	N.m	3.87	6.45	9.68	12.9	18.39	24.5	30.65	36.78	45	45	45	45	45	45	45	45	45	
			Kg.cm	39	66	99	132	188	250	313	375	459	459	459	459	459	459	459	459	459	
		3000r/min	N.m	2.6	4.33	6.5	8.66	12.35	16.46	20.58	24.69	32.9	39	45	45	45	45	45	45	45	
			Kg.cm	27	44	66	88	126	167	210	252	335	398	459	459	459	459	459	459	459	
	400W	2000r/min	N.m	5.17	8.62	12.9	17.2	24.56	32.75	40.9	45	45	45	45	45	45	45	45	45	45	
			Kg.cm	53	88	132	176	251	334	417	459	459	459	459	459	459	459	459	459	459	
		3000r/min	N.m	3.44	5.73	8.59	11.5	16.3	21.8	27	32.7	43.5	45	45	45	45	45	45	45	45	
			Kg.cm	35	58	88	117	166	222	276	333	444	459	459	459	459	459	459	459	459	
	500W	2000r/min	N.m	6.44	10.73	16	21.5	30.6	40.8	45	45	45	45	45	45	45	45	45	45	45	
			Kg.cm	66	109	163	219	312	416	459	459	459	459	459	459	459	459	459	459	459	
		3000r/min	N.m	4.3	7.17	10.7	14.3	20.4	27	34	40.8	45	45	45	45	45	45	45	45	45	
			Kg.cm	44	73	109	146	208	275	347	416	459	459	459	459	459	459	459	459	459	

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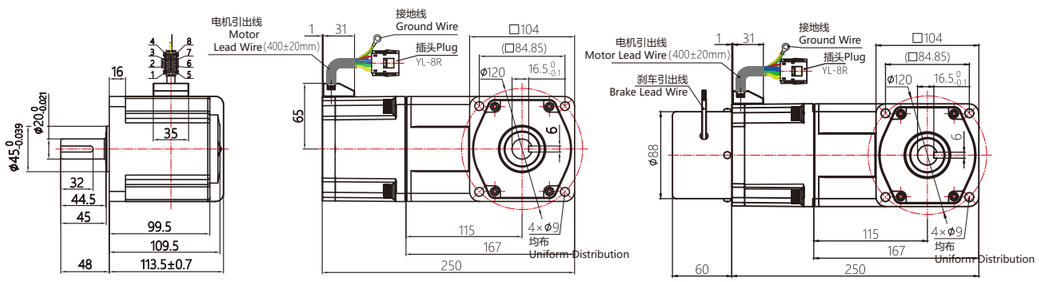
端子及接线示意图
Schematic Diagram of Terminals and Wiring

1	2	3	4	5	6	7	8
U	V	W	VCC	Hu	Hv	Hw	GND
黄(粗) Yellow (Trick)	绿(粗) Green (Trick)	蓝(粗) Blue (Trick)	红(细) Red (Fine)	黄(细) Yellow (Fine)	绿(细) Green (Fine)	蓝(细) Blue (Fine)	黑(细) Black (Fine)



制动型直角中空外形尺寸图
The dimensional drawing of brake-type right-angle hollow shape

制动型直角中实外形尺寸图
The dimensional drawing of brake-type right-angle solid shape



60 L型电机性能参数 Motor Performance Parameters

电机型号 Motor Model	电压 Voltage(V)	额定功率 Rated Power(W)	额定电流 Rated Current(A)	额定转速 Rated Speed(RPM)	额定力矩 Rated Torque(N.m)
C2BLD	DC12V	15	2.1	2000	0.07
			2	3000	0.05
		20	2.7	2000	0.09
			2.5	3000	0.06
		25	3.5	2000	0.11
			3.4	3000	0.08
	DC24V	15	1	2000	0.07
			0.9	3000	0.05
		20	1.4	2000	0.09
			1.3	3000	0.06
		25	1.7	2000	0.12
			1.8	3000	0.08
		30	2.1	2000	0.14
			2.2	3000	0.1
		40	2.8	2000	0.19
			2.7	3000	0.13
	DC48V	15	0.5	2000	0.07
			0.4	3000	0.05
		20	0.7	2000	0.09
			0.6	3000	0.06
		25	0.9	2000	0.12
			0.8	3000	0.08
		30	1.1	2000	0.14
			0.9	3000	0.1
		40	1.4	2000	0.19
			1.3	3000	0.13
	AC220V	30	0.42	3000	0.1
		40	0.56	3000	0.13

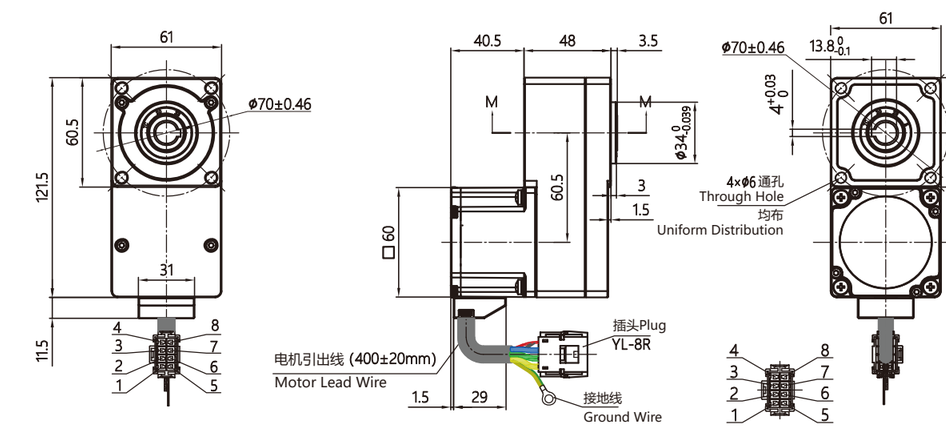
60 L型减速电机扭矩表 Gear Head-Torque Table

减速比 Gear Ratio				5	10	15	18	20	25	30	50	60	75	100	120	150	180	200	最大允许负载（kg.cm）
减速机最大允许力矩(N.m)	15W	2000r/min	N.m	0.3	0.6	0.9	1.08	1.2	1.5	1.8	3	3.6	4.5	6	6	6	6	6	61
			Kg.cm	3	6	9	11	12.24	15	18	31	36	46	61	61	61	61	61	
		3000r/min	N.m	0.21	0.43	0.64	0.77	0.86	1.07	1.29	2.14	2.57	3.22	4.29	5.14	6	6	6	
			Kg.cm	2.1	4.4	6.5	7.9	8.8	11	13	22	26	33	44	52	61	61	61	
	20W	2000r/min	N.m	0.39	0.77	1.16	1.39	1.54	1.93	2.3	3.86	4.63	5.79	6	6	6	6	6	
			Kg.cm	4	7.9	11.8	14	15.7	19.7	23	39	47	59	61	61	61	61	61	
		3000r/min	N.m	0.26	0.51	0.77	0.93	1.03	1.29	1.54	2.57	3	3.86	5.14	6	6	6	6	
			Kg.cm	2.7	5.2	7.9	9.5	10.5	13	15.7	26	31	39	52	61	61	61	61	
	25W	2000r/min	N.m	0.47	0.94	1.41	1.7	1.89	2.36	2.83	4.71	5.66	6	6	6	6	6	6	
			Kg.cm	4.8	9.6	14	17	19	24	28.9	48	58	61	61	61	61	61	61	
		3000r/min	N.m	0.34	0.69	1.03	1.23	1.37	1.7	2.06	3.43	4.11	5.14	6	6	6	6	6	
			Kg.cm	3.5	7	10.5	12.6	14	17	21	35	42	52	61	61	61	61	61	
	30W	2000r/min	N.m	0.6	1.2	1.8	2.16	2.4	3	3.6	6	6	6	6	6	6	6	6	
			Kg.cm	6	12	18	22	24.5	31	36.7	61	61	61	61	61	61	61	61	
		3000r/min	N.m	0.43	0.86	1.29	1.54	1.7	2.14	2.57	4.29	5.14	6	6	6	6	6	6	
			Kg.cm	4.4	8.8	13	15.7	17	22	26	44	52	61	61	61	61	61	61	
	40W	2000r/min	N.m	0.81	1.63	2.44	2.93	3.26	4.07	4.89	6	6	6	6	6	6	6	6	
			Kg.cm	8.3	16.6	24.9	30	33	41.5	50	61	61	61	61	61	61	61	61	
		3000r/min	N.m	0.56	1.11	1.67	2	2.23	2.79	3.34	5.57	6	6	6	6	6	6	6	
			Kg.cm	5.7	11	17	20	22	28	34	56.8	61	61	61	61	61	61	61	

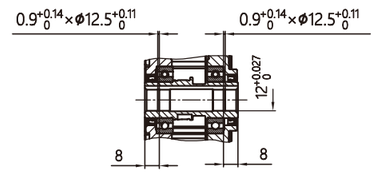
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安装尺寸图 Installation Dimension Drawing



M-M



端子及接线示意图
Schematic Diagram of Terminals and Wiring

1	2	3	4	5	6	7	8
U	V	W	VCC	Hu	Hv	Hw	GND
黄(粗) Yellow (Trick)	绿(粗) Green (Trick)	蓝(粗) Blue (Trick)	红(细) Red (Fine)	黄(细) Yellow (Fine)	绿(细) Green (Fine)	蓝(细) Blue (Fine)	黑(细) Black (Fine)

• 70 L型电机性能参数 Motor Performance Parameters

电机型号 Motor Model	电压 Voltage(V)	额定功率 Rated Power(W)	额定电流 Rated Current(A)	额定转速 Rated Speed(RPM)	额定力矩 Rated Torque(N.m)
C3BLD	DC12V	15	2.1	2000	0.07
			2	3000	0.05
		20	2.7	2000	0.09
			2.5	3000	0.06
		25	3.5	2000	0.11
			3.4	3000	0.08
	DC24V	15	1	2000	0.07
			0.9	3000	0.05
		20	1.4	2000	0.09
			1.3	3000	0.06
		25	1.7	2000	0.12
			1.8	3000	0.08
		30	2.1	2000	0.14
			2.2	3000	0.1
		40	2.8	2000	0.19
			2.7	3000	0.13
	DC48V	15	0.5	2000	0.07
			0.4	3000	0.05
		20	0.7	2000	0.09
			0.6	3000	0.06
		25	0.9	2000	0.12
			0.8	3000	0.08
		30	1.1	2000	0.14
			0.9	3000	0.1
		40	1.4	2000	0.19
			1.3	3000	0.13
	AC220V	30	0.42	3000	0.1
		40	0.56	3000	0.13

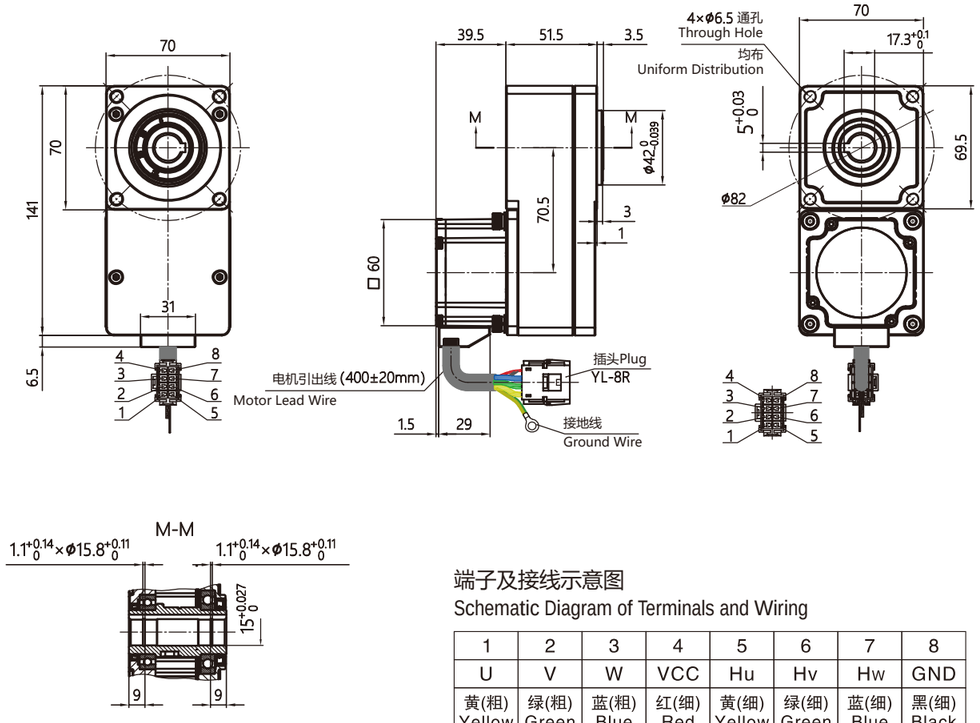
• 70 L型减速电机扭矩表 Gear Head-Torque Table

减速比 Gear Ratio				5	10	15	18	20	25	30	50	60	75	100	120	150	180	200	最大允许负载 (kg.cm)
减速机最大允许力矩(N.m)	15W	2000r/min	N.m	0.3	0.6	0.9	1.08	1.2	1.5	1.8	3	3.6	4.5	6	6	6	6	6	61
			Kg.cm	3	6	9	11	12	15	18	31	36	46	61	61	61	61	61	
		3000r/min	N.m	0.21	0.43	0.64	0.77	0.86	1.07	1.29	2.14	2.57	3.22	4.29	5.14	6	6	6	
			Kg.cm	2.1	4.4	6.5	7.9	8.8	11	13	22	26	33	44	52	61	61	61	
	20W	2000r/min	N.m	0.39	0.77	1.16	1.39	1.54	1.93	2.3	3.86	4.63	5.79	6	6	6	6	6	
			Kg.cm	4	7.9	11.8	14	15.7	19.7	23	39	47	59	61	61	61	61	61	
		3000r/min	N.m	0.26	0.51	0.77	0.93	1.03	1.29	1.54	2.57	3	3.86	5.14	6	6	6	6	
			Kg.cm	2.7	5.2	7.9	9.5	10.5	13	15.7	26	31	39	52	61	61	61	61	
	25W	2000r/min	N.m	0.47	0.94	1.41	1.7	1.89	2.36	2.83	4.71	5.66	6	6	6	6	6	6	
			Kg.cm	4.8	9.6	14	17	19	24	28.9	48	58	61	61	61	61	61	61	
		3000r/min	N.m	0.34	0.69	1.03	1.23	1.37	1.7	2.06	3.43	4.11	5.14	6	6	6	6	6	
			Kg.cm	3.5	7	10.5	12.6	14	17	21	35	42	52	61	61	61	61	61	
	30W	2000r/min	N.m	0.6	1.2	1.8	2.16	2.4	3	3.6	6	6	6	6	6	6	6	6	
			Kg.cm	6	12	18	22	24.5	31	36.7	61	61	61	61	61	61	61	61	
		3000r/min	N.m	0.43	0.86	1.29	1.54	1.7	2.14	2.57	4.29	5.14	6	6	6	6	6	6	
			Kg.cm	4.4	8.8	13	15.7	17	22	26	44	52	61	61	61	61	61	61	
	40W	2000r/min	N.m	0.81	1.63	2.44	2.93	3.26	4.07	4.89	6	6	6	6	6	6	6	6	
			Kg.cm	8.3	16.6	24.9	30	33	41.5	50	61	61	61	61	61	61	61	61	
		3000r/min	N.m	0.56	1.11	1.67	2	2.23	2.79	3.34	5.57	6	6	6	6	6	6	6	
			Kg.cm	5.7	11	17	20	22	28	34	56.8	61	61	61	61	61	61	61	

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70 L型系列 无刷直流电机 70L-SHAPED SERIES



安装尺寸图 Installation Dimension Drawing



端子及接线示意图
Schematic Diagram of Terminals and Wiring

1	2	3	4	5	6	7	8
U	V	W	VCC	Hu	Hv	Hw	GND
黄(粗) Yellow (Trick)	绿(粗) Green (Trick)	蓝(粗) Blue (Trick)	红(细) Red (Fine)	黄(细) Yellow (Fine)	绿(细) Green (Fine)	蓝(细) Blue (Fine)	黑(细) Black (Fine)

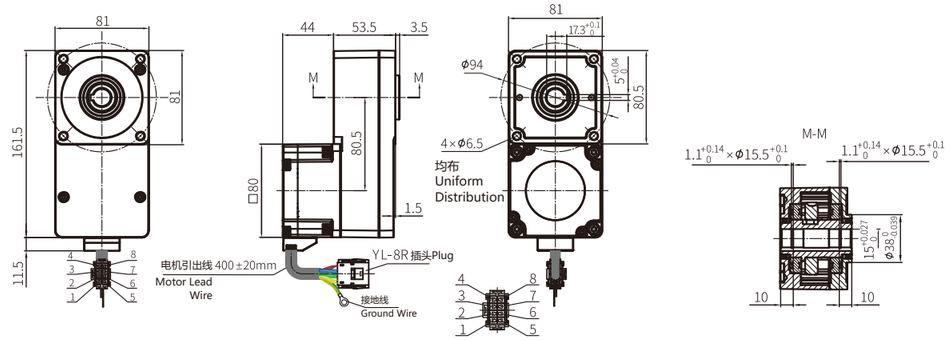


80 L型电机性能参数
Motor Performance Parameters

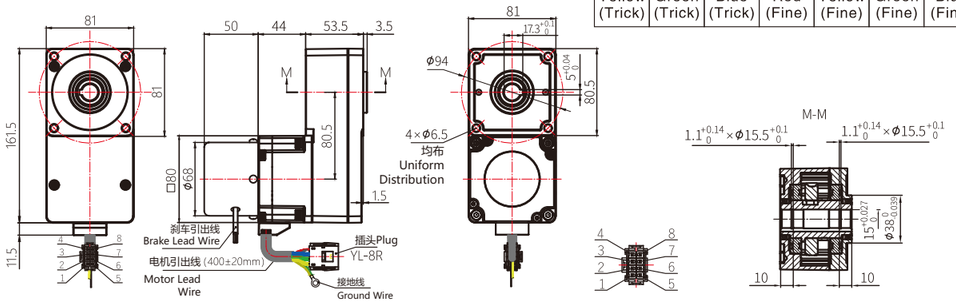
电机型号 Motor Model	电压 Voltage(V)	额定功率 Rated Power(W)	额定电流 Rated Current(A)	额定转速 Rated Speed(RPM)	额定力矩 Rated Torque(N.m)
C4BLD	DC12V	25	3.2	2000	0.12
			3	3000	0.08
		40	5.1	2000	0.19
			4.9	3000	0.13
		60	7.7	2000	0.29
			7.3	3000	0.19
		90	11.5	2000	0.43
			11	3000	0.29
		120	15.4	2000	0.57
			14.7	3000	0.38
	DC24V	25	1.6	2000	0.12
			1.5	3000	0.08
		40	2.6	2000	0.19
			2.4	3000	0.13
		60	3.8	2000	0.29
			3.6	3000	0.19
		90	5.8	2000	0.43
			5.5	3000	0.29
		120	7.7	2000	0.57
			7.3	3000	0.38
	DC48V	25	0.8	2000	0.12
			0.7	3000	0.08
		40	1.3	2000	0.19
			1.2	3000	0.13
		60	1.9	2000	0.29
			1.8	3000	0.19
		90	2.9	2000	0.43
			2.8	3000	0.29
		120	3.8	2000	0.57
			3.6	3000	0.38
	DC110V	40	1.1	2000	0.19
			0.9	3000	0.13
		60	1.53	2000	0.29
			1.5	3000	0.19
		90	2.28	2000	0.43
			2.2	3000	0.29
		120	3	2000	0.57
			2.9	3000	0.38
	AC220V	40	0.56	2000	0.19
			0.46	3000	0.13
		60	0.76	2000	0.29
			0.73	3000	0.19
		90	1.15	2000	0.43
			1.1	3000	0.29
		120	1.53	2000	0.57
			1.5	3000	0.38

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L型安装尺寸图 The dimensional drawing of L-type installation



L制动型安装尺寸图
The dimensional drawing of L-type brake installation



端子及接线示意图
Schematic Diagram of Terminals and Wiring

1	2	3	4	5	6	7	8
U	V	W	VCC	Hu	Hv	Hw	GND
黄(粗) Yellow (Trick)	绿(粗) Green (Trick)	蓝(粗) Blue (Trick)	红(细) Red (Fine)	黄(细) Yellow (Fine)	绿(细) Green (Fine)	蓝(细) Blue (Fine)	黑(细) Black (Fine)

80 L型减速电机扭矩表 Gear Head-Torque Table

减速比 Gear Ratio				5	10	15	18	20	25	30	50	60	75	100	120	150	180	200	最大允许负载 (kg.cm)
减速机最大允许力矩(N.m)	25W	2000r/min	N.m	0.51	1.03	1.54	1.85	2.06	2.57	3.09	5.14	6.17	7.71	10.29	12.35	15.43	18.52	20.58	255
			Kg.cm	5.2	10.5	15.7	18.9	21	26	32	52	63	79	105	126	157	189	210	
		3000r/min	N.m	0.34	0.69	1.03	1.23	1.37	1.71	2.06	3.43	4.1	5.14	6.86	8.23	10.29	12.35	13.7	
			Kg.cm	3.5	7	10.5	13	14	17	21	35	42	52	70	84	105	126	140	
	40W	2000r/min	N.m	0.81	1.63	2.44	2.9	3.26	4	4.88	8.15	9.77	12.2	16.3	19.5	24.43	25	25	
			Kg.cm	8.3	16.6	25	30	33	41	50	83	100	124	166	199	249	255	255	
		3000r/min	N.m	0.56	1.1	1.67	2	2.23	2.79	3.34	5.57	6.69	8.36	11	13.38	16.7	20	22.3	
			Kg.cm	5.7	11	17	20	22.8	28	34	57	68	85	112	137	170	204	228	
	60W	2000r/min	N.m	1.24	2.49	3.73	4.48	4.97	6.2	7.46	12.43	14.9	18.6	24.86	25	25	25	25	
			Kg.cm	12.7	25	38	45.7	50	63	76	127	152	190	253	255	255	255	255	
		3000r/min	N.m	0.81	1.63	2.44	2.9	3.26	4	4.88	8.15	9.77	12.2	16.3	19.5	24.43	25	25	
			Kg.cm	8.3	16.6	25	30	33	41	50	83	100	124	166	199	249	255	255	
	90W	2000r/min	N.m	1.84	3.69	5.53	6.64	7.37	9.22	11	18.43	22	25	25	25	25	25	25	
			Kg.cm	18.8	38	56	68	79	94	112	188	224	255	255	255	255	255	255	
		3000r/min	N.m	1.24	2.49	3.73	4.48	4.97	6.2	7.46	12.43	14.9	18.6	24.86	25	25	25	25	
			Kg.cm	12.7	25	38	45.7	50	63	76	127	152	190	253	255	255	255	255	
	120W	2000r/min	N.m	2.44	4.89	7.33	8.8	9.77	12.22	14.66	24.43	25	25	25	25	25	25	25	
			Kg.cm	25	50	75	89	100	125	150	249	255	255	255	255	255	255	255	
		3000r/min	N.m	1.63	3.26	4.89	5.86	6.52	8.15	9.77	16.29	19.5	24.43	25	25	25	25	25	
			Kg.cm	16.6	33	50	60	66	83	100	166	199	249	255	255	255	255	255	

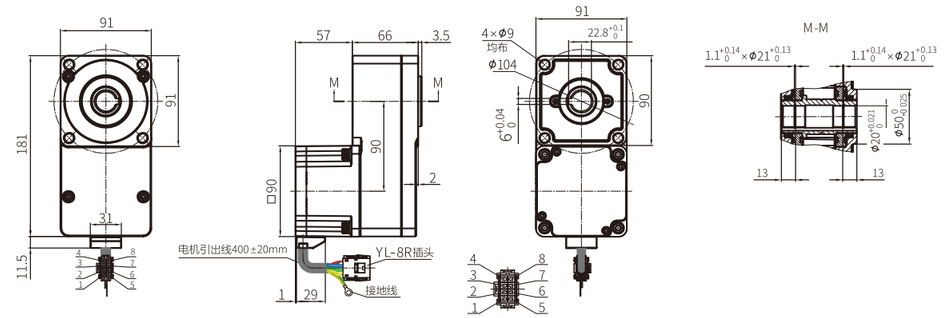


● 90 L型电机性能参数
Motor Performance Parameters

电机型号 Motor Model	电压 Voltage(V)	额定功率 Rated Power(W)	额定电流 Rated Current(A)	额定转速 Rated Speed(RPM)	额定力矩 Rated Torque(N.m)
C5BLD	DC24V	60	3.3	2000	0.29
			3.2	3000	0.19
		90	5	2000	0.43
			4.8	3000	0.29
		120	6.7	2000	0.57
			6.4	3000	0.38
		150	8.3	2000	0.72
			8	3000	0.48
		200	11.1	2000	0.96
			10.6	3000	0.64
	DC48V	60	1.7	2000	0.29
			1.6	3000	0.19
		90	2.5	2000	0.43
			2.4	3000	0.29
		120	3.3	2000	0.57
			3.2	3000	0.38
		150	4.2	2000	0.72
			4	3000	0.48
		200	5.6	2000	0.96
			5.3	3000	0.64
	AC110V	60	1.3	2000	0.29
			1.2	3000	0.19
		90	1.95	2000	0.43
			1.9	3000	0.29
		120	2.6	2000	0.57
			2.2	3000	0.38
		150	3.2	2000	0.72
			3	3000	0.48
		200	4.3	2000	0.96
			4	3000	0.64
	AC220V	60	0.65	2000	0.29
			0.55	3000	0.19
		90	0.98	2000	0.43
			0.9	3000	0.29
		120	1.3	2000	0.57
			1.1	3000	0.38
		150	1.62	2000	0.72
			1.5	3000	0.48
		200	2.15	2000	0.96
			2	3000	0.64

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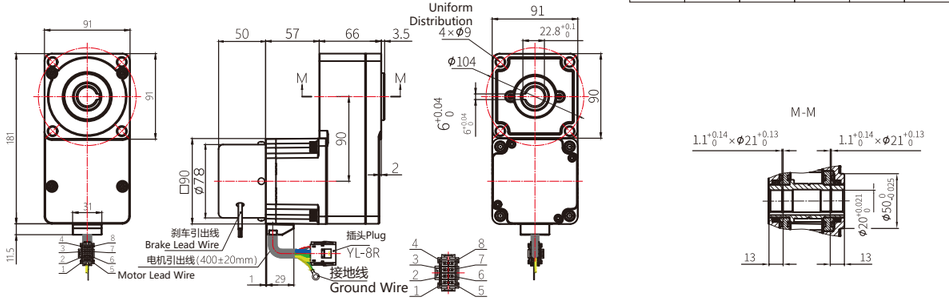
L型安装尺寸图 The dimensional drawing of L-type installation



端子及接线示意图
Schematic Diagram of Terminals and Wiring

1	2	3	4	5	6	7	8
U	V	W	VCC	Hu	Hv	Hw	GND
黄(粗) Yellow (Trick)	绿(粗) Green (Trick)	蓝(粗) Blue (Trick)	红(细) Red (Fine)	黄(细) Yellow (Fine)	绿(细) Green (Fine)	蓝(细) Blue (Fine)	黑(细) Black (Fine)

L制动型安装尺寸图
The dimensional drawing of L-type brake installation



● 90 L型减速电机扭矩表 Gear Head-Torque Table

减速比 Gear Ratio				5	10	15	20	30	50	100	150	200	最大允许负载 (kg.cm)
减速机最大允许力矩(N.m)	60W	2000r/min	N.m	1.24	2.49	3.73	4.97	7.46	12.43	24.86	37.3	49.7	561
			Kg.cm	12.7	25	38	51	76	127	254	381	507	
		3000r/min	N.m	0.81	1.63	2.44	3.26	4.89	8.15	16.29	24.43	32.58	
			Kg.cm	8.3	16.6	25	33	50	83	166	249	332	
	90W	2000r/min	N.m	1.84	3.69	5.53	7.37	11	18.4	36.8	55	55	
			Kg.cm	18.8	37.7	56	75	112	189	376	561	561	
		3000r/min	N.m	1.24	2.49	3.73	4.97	7.46	12.43	24.86	37.3	49.7	
			Kg.cm	12.7	25	38	51	76	127	253	381	507	
	120W	2000r/min	N.m	2.44	4.89	7.33	9.77	14.66	24.43	48.87	55	55	
			Kg.cm	25	50	75	99.7	149.6	249	499	561	561	
		3000r/min	N.m	1.63	3.26	4.89	6.52	9.77	16.29	32.58	48.87	55	
			Kg.cm	17	34	51	68	103	171	332	499	561	
	150W	2000r/min	N.m	3.09	6.17	9.26	12.35	18.5	30.87	55	55	55	
			Kg.cm	31	63	94	126	189	315	561	561	561	
		3000r/min	N.m	2.06	4.1	6.17	8.23	12.35	20.58	41	55	55	
			Kg.cm	21	42	63	84	126	210	418	561	561	
	200W	2000r/min	N.m	4.1	8.23	12.35	16.5	24.69	41	55	55	55	
			Kg.cm	42	84	126	168	252	418	561	561	561	
		3000r/min	N.m	2.74	5.49	8.23	10.97	16.5	27.4	55	55	55	
			Kg.cm	28	56	84	112	168	280	561	561	561	

100 L型电机性能参数 Motor Performance Parameters

电机型号 Motor Model	电压 Voltage(V)	额定功率 Rated Power(W)	额定电流 Rated Current(A)	额定转速 Rated Speed(RPM)	额定力矩 Rated Torque(N.m)
C6BLD	DC24V	200	10.4	2000	0.96
			10	3000	0.64
		300	15.6	2000	1.43
			15	3000	0.96
		400	20.8	2000	1.91
			20.3	3000	1.27
	DC48V	200	5.2	2000	0.96
			5	3000	0.64
		300	7.8	2000	1.43
			7.6	3000	0.96
		400	10.4	2000	1.91
			10	3000	1.27
	AC110V	200	3.7	2000	0.96
			3.6	3000	0.64
		300	5.5	2000	1.43
			5.2	3000	0.96
		400	7.3	2000	1.91
			7	3000	1.27
	AC220V	200	1.8	2000	0.96
			1.7	3000	0.64
		300	2.75	2000	1.43
			2.6	3000	0.96
		400	3.7	2000	1.91
			3.6	3000	1.27
		500	4.58	2000	2.38
			4.4	3000	1.59

100 L型减速电机扭矩表 Gear Head-Torque Table

减速比 Gear Ratio				5	7.5	10	15	18	20	25	30	50	60	75	100	120	150	180	200	最大允许负载 (kg.cm)
减速机最大允许力矩(N.m)	200W	2000r/min	N.m	4.1	6.17	8.23	12.35	14.8	16.46	20.58	24.69	41.2	49.4	61.7	82.3	98.77	100	100	100	1020
			Kg.cm	42	63	84	126	151	167	210	252	420	504	630	840	1008	1020	1020	1020	
		3000r/min	N.m	2.7	4.1	5.49	8.23	9.88	10.97	13.7	16.46	27.4	32.9	41.2	54.87	65.8	82.3	98.77	100	
			Kg.cm	27	42	56	84	101	112	140	168	280	336	420	560	6711	840	1008	1020	
	300W	2000r/min	N.m	6.1	9.2	12.3	18.4	22	24.5	30.65	36.8	61.3	73.56	91.95	122.6	100	100	100	100	
			Kg.cm	62	94	126	188	224	250	313	376	625	751	938	1020	1020	1020	1020	1020	
		3000r/min	N.m	4.1	6.17	8.23	12.35	14.8	16.46	20.58	24.69	41.2	49.4	61.7	82.3	98.77	100	100	100	
			Kg.cm	42	63	84	126	151	167	210	252	420	504	630	840	1008	1020	1020	1020	
	400W	2000r/min	N.m	8.19	12.3	16.37	24.56	29.5	32.8	40.9	49	81.9	98.3	100	100	100	100	100	100	
			Kg.cm	84	126	167	251	301	335	417	500	835	1003	1020	1020	1020	1020	1020	1020	
		3000r/min	N.m	5.44	8.16	10.89	16.3	19.6	21.77	27.2	32.7	54.4	65	81.6	100	100	100	100	100	
			Kg.cm	56	83	111	166	200	222	278	334	555	663	833	1020	1020	1020	1020	1020	
	500W	2000r/min	N.m	10.2	15.3	20.4	30.6	36.7	40.8	51	61.2	100	100	100	100	100	100	100	100	
			Kg.cm	104	156	208	312	374	416	520	624	1020	1020	1020	1020	1020	1020	1020	1020	
		3000r/min	N.m	7.17	10.76	14.3	21.5	25.8	28.7	35.87	43	71.7	86	100	100	100	100	100	100	
			Kg.cm	73	110	146	219	263	293	366	438	732	877	1020	1020	1020	1020	1020	1020	

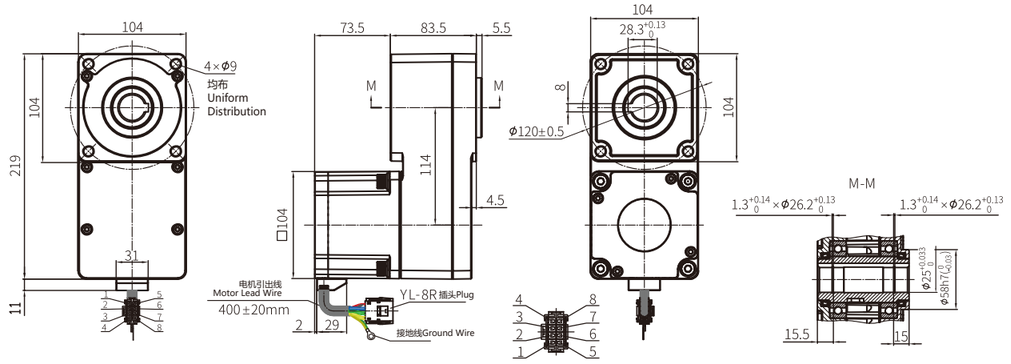
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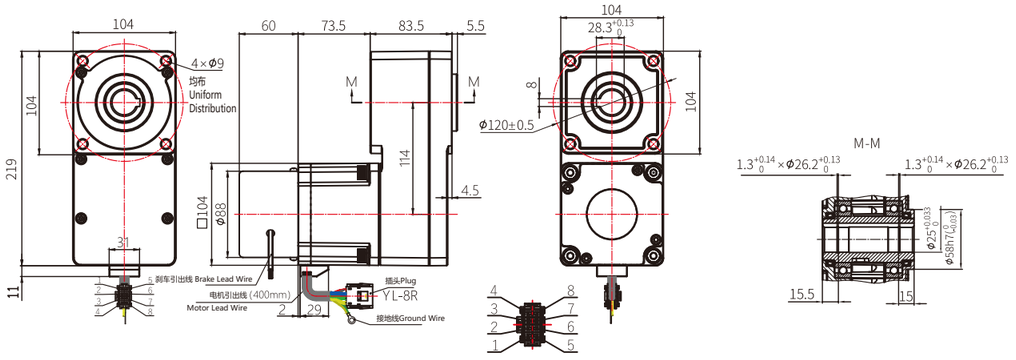
端子及接线示意图
Schematic Diagram of Terminals and Wiring

1	2	3	4	5	6	7	8
U	V	W	VCC	Hu	Hv	Hw	GND
黄(粗) Yellow (Trick)	绿(粗) Green (Trick)	蓝(粗) Blue (Trick)	红(细) Red (Fine)	黄(细) Yellow (Fine)	绿(细) Green (Fine)	蓝(细) Blue (Fine)	黑(细) Black (Fine)

L型安装尺寸图 The dimensional drawing of L-type installation



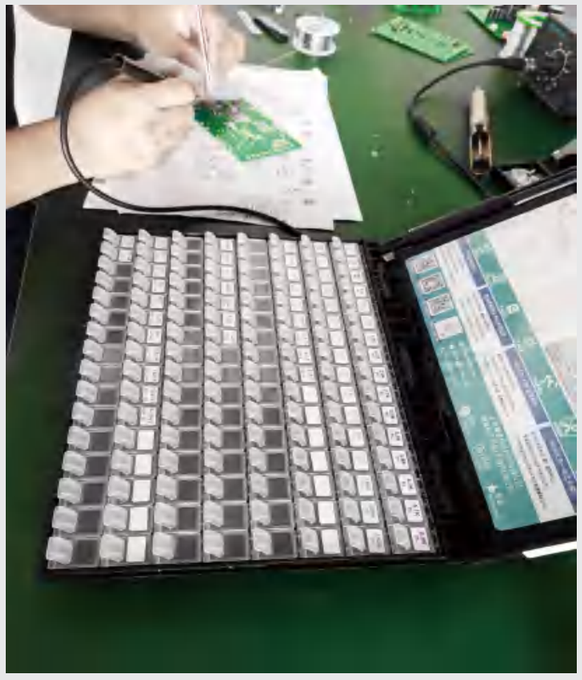
L制动型安装尺寸图
The dimensional drawing of L-type brake installation



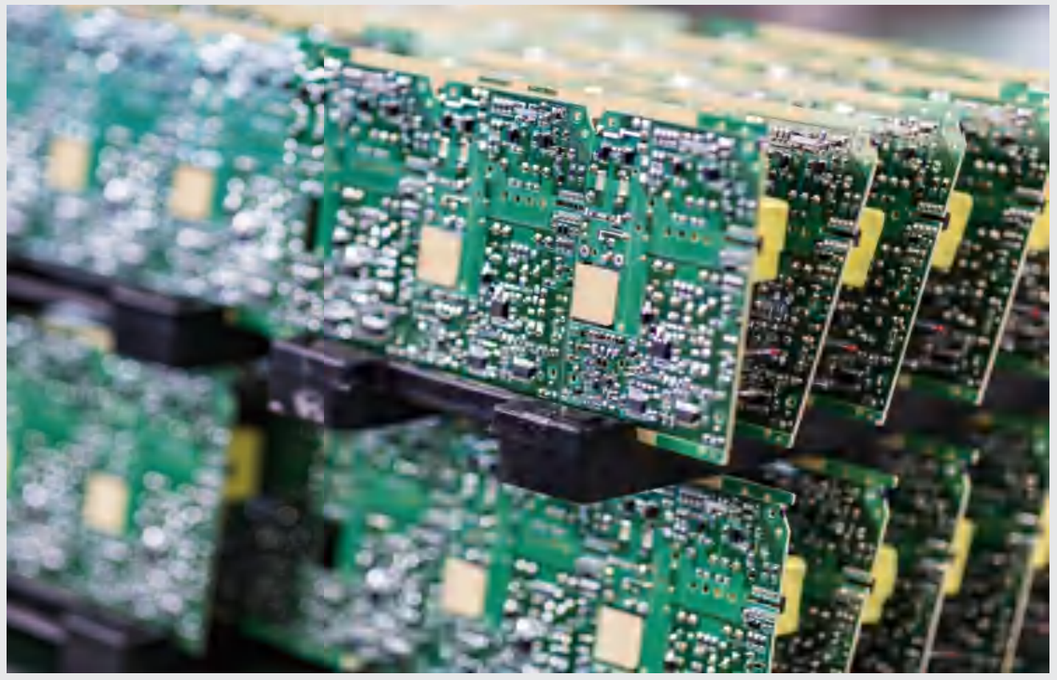
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We adhere to independent research and development, dedicated to technological improvement, and provide customers with the most suitable transmission solutions.









面板式控制器

HM-EL60W
DC24

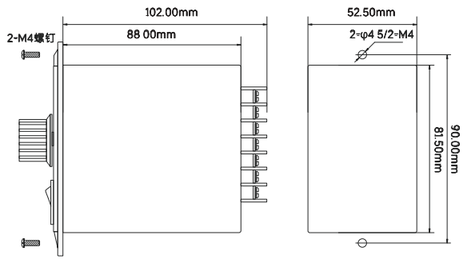
- 直流输入
- 匹配 DC24V 无刷电机
- 旋钮调速，操作简单
- 集成接线，防止接错
- 力矩模式，功率稳定



性能参数表

型号	EL60W
安装方式	面板式
电源电压	DC24V
适配无刷调速电机功率	60W
调速范围	150~3000RPM
使用环境	-10℃~+45℃（无结露）
信号输出	速度输出/报警输出
调速方式	面板旋钮/PWM/脉冲信号

安装孔位尺寸（单位mm）



换向与启停功能

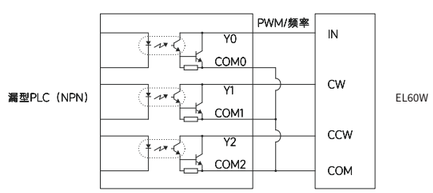
- 需要外接开关的启停/换向场景，请参照EL60W一图示2。
- 需要通过PLC或其他上位机对方向进行切换的场合，只需将CW，CCW，COM直接接入PLC或其他上位机的输出端,无需外接继电器即可实现对电机的启停与运行方向切换请参照EL60W一图示2。

调速方式

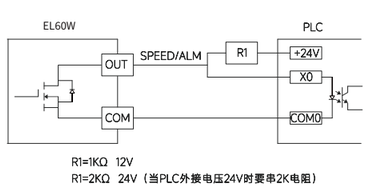
- 使用面板上的电位器旋钮调速（默认调速方式，如需其它调速方式需联系销售设定）。
- 使用PWM占空比调速：可以通过PLC等上位机（NPN漏型）输出PWM信号来控制调速一图示1。
- 使脉冲频率调速：可以通过用PLC等上位机（NPN漏型）输出频率信号来控制调速（1HZ=1RPM）一图示1。
- 固定转速（需联系销售设定）。

输出方式

- 报警输出（默认输出方式）：当调速控制器使用异常时电机会停止工作，同时显示屏上会显示相应的报警代码，当OUT输出口设置为报警输出时，此时OUT与COM将导通，OUT口为低电平-图示2。
- 速度输出：当电机运转时会同步当前电机转速输出相应频率1RPM=1HZ（需联系销售设定）-图示2。



图示1



图示2

PANEL TYPE BLDC SPEED CONTOLLER

HM-EL60W
DC24

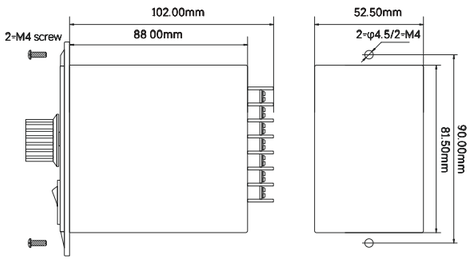
- DC Input
- Matches DC24V Brushless Motor
- Knob Speed Regulation, Simple Operation
- Integrated Wiring, Prevent Wrong Connection
- Torque Mode, Stable Power



Performance Parameter Table

Model	EL60W
Installation Method	Panel - type
Power Supply Voltage	DC24V
Power of Adapted Brushless Speed - Regulating Motor	60W
Speed - Regulating Range	150~3000RPM
Operating Environment	-10℃~+45℃ (No condensation)
Signal Output	Speed output / Alarm output
Speed - Regulating Method	Panel knob / PWM / Pulse signal

Installation Hole Dimensions (Unit: mm)



Direction Reversal and Start - Stop Functions

- For start - stop / direction reversal scenarios requiring an external switch, please refer to EL60W - Diagram 2.
- In cases where the direction needs to be switched via a PLC or other upper - level machines, simply connect CW, CCW, and COM directly to the output terminals of the PLC or other upper - level machines. There is no need for an external relay to achieve start - stop and running direction switching of the motor. Please refer to EL60W - Diagram 2.

Speed Regulation Methods

- Use the potentiometer knob on the panel for speed regulation (default speed regulation method; contact sales if other speed regulation methods are needed).
- Use PWM duty cycle for speed regulation: PWM signals can be output via upper - level machines such as PLCs (NPN open - drain type) to control speed - Diagram 1.
- Use pulse frequency for speed regulation: Frequency signals can be output via upper - level machines such as PLCs (NPN open - drain type) to control speed (1HZ = 1RPM) - Diagram 1.
- Fixed speed (contact sales for setting).

Output Modes

- Alarm output (default output mode): When the speed controller operates abnormally, the motor will stop working, and the corresponding alarm code will be displayed on the screen. When the OUT output port is set to alarm output, OUT and COM will be conducting at this time, and the OUT port will be at low level - Diagram 2.
  Speed output: When the motor is running, it will synchronously output the corresponding frequency according to the current motor speed. 1RPM = 1HZ (contact sales for setting) - Diagram 2.
- Use pulse frequency for speed regulation: Frequency signals can be output via upper - level machines such as PLCs (NPN open - drain type) to control speed (1HZ = 1RPM) - Diagram 1.
  Fixed speed (contact sales for setting).

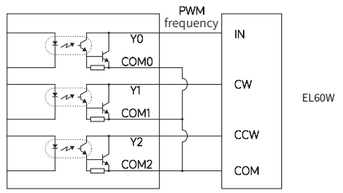


Diagram 1

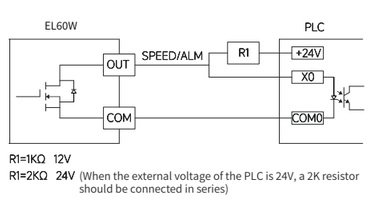


Diagram 2

面板式控制器

HM-ELD120W
DC24V

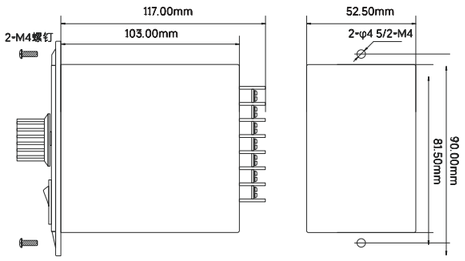
- LED 数显，精准读数
- 旋钮调速，直观便捷
- 可接 PLC 上位机编程控制
- 集成端口，接线轻松
- 力矩模式，输出稳定



性能参数表

型号	ELD120W
安装方式	面板式
电源电压	DC24V
适配无刷调速电机功率	120W
调速范围	150~3000RPM
使用环境	-10℃~+45℃（无结露）
信号输出	速度输出/报警输出
调速方式	面板旋钮/PWM/脉冲信号

安装孔位尺寸（单位mm）



换向与启停功能

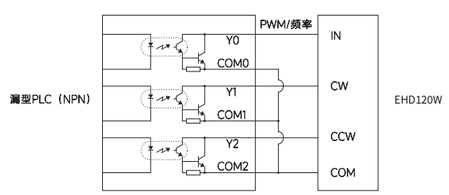
- 需要外接开关的启停/换向场景，请参照ELD120W—图示2。
- 需要通过PLC或其他上位机对方向进行切换的场合，只需将CW，CCW，COM直接接入PLC或其他上位机的输出端,无需外接继电器即可实现对电机的启停与运行方向切换请参照ELD200W—图示2。

调速方式

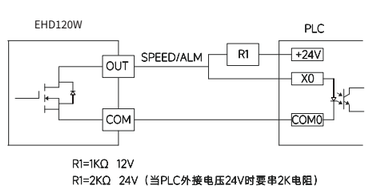
- 使用面板上的电位器旋钮调速（默认调速方式，如需其它调速方式需联系销售设定）。
- 使用PWM占空比调速：可以通过PLC等上位机（NPN漏型）输出PWM信号来控制调速—图示1。
- 使脉冲频率调速：可以通过用PLC等上位机（NPN漏型）输出频率信号来控制调速（1HZ=1RPM）—图示1。
- 固定转速（需联系销售设定）。

输出方式

- 报警输出（默认输出方式）：当调速控制器使用异常时电机会停止工作，同时显示屏上会显示相应的报警代码，当OUT输出口设置为报警输出时，此时OUT与COM将导通，OUT口为低电平-图示2。
- 速度输出：当电机运转时会同步当前电机转速输出相应频率1RPM=1HZ（需联系销售设定）-图示2。



图示1



图示2

PANEL TYPE BLDC SPEED CONTROLLER

HM-ELD120W
DC24V

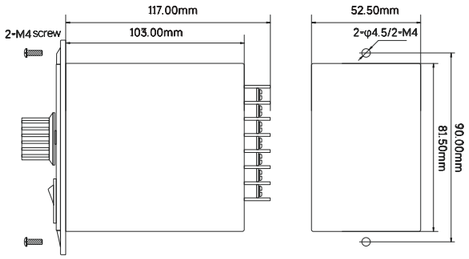
- LED digital display for accurate readings
- Knob speed regulation, intuitive and convenient
- Connectable to PLC upper - computer for programming control
- Integrated ports, easy wiring
- Torque mode for stable output



Performance Parameter Table

Model	ELD120W
Installation Method	Panel - type
Power Supply Voltage	DC24V
Power of Adapted Brushless Speed - Regulating Motor	120W
Speed - Regulating Range	150~3000RPM
Operating Environment	-10°C~+45°C (No condensation)
Signal Output	Speed output / Alarm output
Speed - Regulating Method	Panel knob / PWM / Pulse signal

Installation Hole Dimensions (Unit: mm)



Direction Reversal and Start - Stop Functions

- For start - stop / direction reversal scenarios requiring an external switch, please refer to ELD120W - Diagram 2.
- In cases where the direction needs to be switched via a PLC or other upper - level machines, simply connect CW, CCW, and COM directly to the output terminals of the PLC or other upper - level machines. There is no need for an external relay to achieve start - stop and running direction switching of the motor. Please refer to ELD120W - Diagram 2.

Speed Regulation Methods

- Use the potentiometer knob on the panel for speed regulation (default speed regulation method; contact sales if other speed regulation methods are needed).
- Use PWM duty cycle for speed regulation: PWM signals can be output via upper - level machines such as PLCs (NPN open - drain type) to control speed - Diagram 1.
- Use pulse frequency for speed regulation: Frequency signals can be output via upper - level machines such as PLCs (NPN open - drain type) to control speed (1HZ = 1RPM) - Diagram 1.
- Fixed speed (contact sales for setting).

Output Modes

- Alarm output (default output mode): When the speed controller operates abnormally, the motor will stop working, and the corresponding alarm code will be displayed on the screen. When the OUT output port is set to alarm output, OUT and COM will be conducting at this time, and the OUT port will be at low level - Diagram 2.
  Speed output: When the motor is running, it will synchronously output the corresponding frequency according to the current motor speed. 1RPM = 1HZ (contact sales for setting) - Diagram 2.
- Use pulse frequency for speed regulation: Frequency signals can be output via upper - level machines such as PLCs (NPN open - drain type) to control speed (1HZ = 1RPM) - Diagram 1.
  Fixed speed (contact sales for setting).

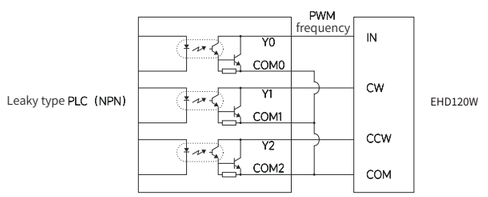


Diagram 1

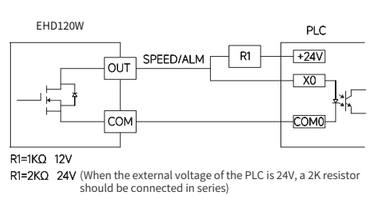


Diagram 2

面板式控制器

HM-EH100W
AC220V

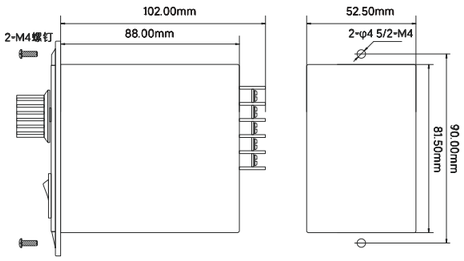
- 旋钮调速，直观便捷
- 可PLC上位机编程控制
- 一键启停，应用简单
- 力矩模式，输出稳定



性能参数表

型号	EH200A
安装方式	面板式
电源电压	单相220V/单相110V
适配无刷调速电机功率	100W
调速范围	150~3000RPM
使用环境	-10℃~+45℃（无结露）
速度信号来源	面板旋钮调速
控制功能	外接方向与启停/PLC控制

安装孔位尺寸（单位mm）

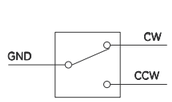


换向功能

- 出厂默认为正转，需要设置为反转的，请将短接线从CW位置替换到CCW位置，即将CCW与GND短接即可实现电机反转。
- 同时短接CW、CCW与GND端口时，电机为刹车状态。
- 手动方向切换的场合，应选用船型开关，推荐使用（型号KCD1 250V6A-3脚2档开关）—图示1。
- 通过PLC/上位机对方向进行切换的场合，需在CW与GND及CCW与GND之间分别连接继电器，由PLC通过继电器对电机方向进行控制切换—图示2。

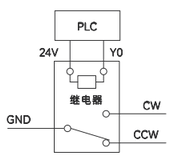
启停功能

- 使用面板上的启停开关进行启停与关断。
- 通过切断CW与GND之间以及CCW与GND之间的连接来进行关断，推荐使用（型号KCD1 250V6A-3脚3档开关）—图示3。
- 通过继电器使用PLC进行启停控制的场合，与方向切换场合一样，只需同时切断两个方向的继电器连接即可实现启停关断—图示4。

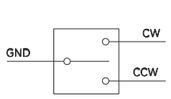


船型开关ON-ON

图示1

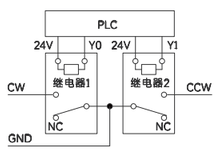


图示2



船型开关ON-OFF-ON

图示3



图示4

CHBNS 传承之道 稳行致远
THE WAY OF INHERITANCE IS STEADY AND FAR-REACHING
传动装置专业制造商
PROFESSIONAL MANUFACTURER OF TRANSMISSION DEVICE
直流无刷控制器 DC BRUSHLESS CONTROLLER

PANEL TYPE BLDC SPEED CONTROLLER

HM-EH100W
AC220V

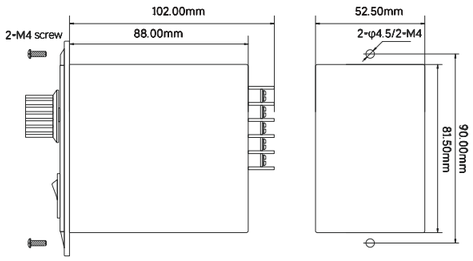
- Knob speed regulation, intuitive and convenient
- Can be programmed and controlled by PLC upper computer
- One - key start - stop, simple to apply
- Torque mode, stable output



Performance Parameter Table

Model	EH200A
Installation Method	Panel Mount Type
Power Supply Voltage	Single-Phase 220V / Single-Phase 110V
Power of Adapted Brushless Speed - Regulating Motor	100W
Speed - Regulating Range	150~3000 RPM
Operating Environment	-10°C~+45°C (No Condensation)
Source of Speed Signal	Panel Knob Speed Regulation
Speed - Regulating Method	External Direction & Start/Stop Control / PLC Control

Installation Hole Dimensions (Unit: mm)

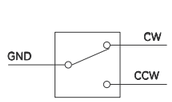


Reversing Function

- The factory default is forward rotation. If it needs to be set to reverse rotation, replace the short - circuit wire from the CW position to the CCW position. That is, short - circuit CCW and GND to achieve motor reverse rotation.
- When CW, CCW and the GND port are short - circuited at the same time, the motor is in the braking state.
- For manual direction switching, a ship - type switch should be selected. It is recommended to use (model KCD1 250V6A - 3 - pin 2 - gear switch) — Diagram 1.
- For scenarios where the direction is switched through a PLC/upper computer, relays need to be connected between CW and GND and between CCW and GND respectively. The PLC controls and switches the motor direction through the relays — Diagram 2.

Start - Stop Function

- Use the start - stop switch on the panel for starting, stopping and shutting off.
- Shut off by cutting off the connections between CW and GND and between CCW and GND. It is recommended to use (model KCD1 250V6A - 3 - pin 3 - gear switch) — Diagram 3.
- For scenarios where a PLC is used for start - stop control through a relay, similar to the direction switching scenario, just cut off the relay connections of the two directions at the same time to achieve start - stop and shut - off — Diagram 4.



Boat-shaped switches ON-ON

Diagram 1

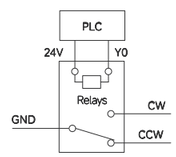
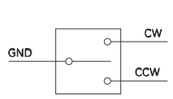


Diagram 2



Boat-shaped switches ON-OFF-ON

Diagram 3

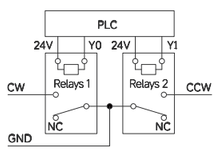


Diagram 4

面板式控制器

HM-EHD200W
AC220V

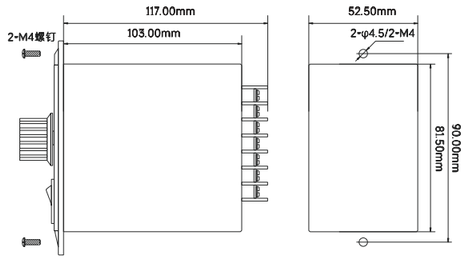
- 一键启停，应用简单
- 旋钮调速，直观便捷
- 可PLC上机编程控制
- 集成接线，防止按错
- 力矩模式，输出稳定



性能参数表

型号	EHD200W
安装方式	面板式
电源电压	单相220V/单相110V
适配无刷调速电机功率	200W
调速范围	150~3000RPM
使用环境	-10℃~+45℃（无结露）
信号输出	速度输出/报警输出
调速方式	面板旋钮/PWM/脉冲信号

安装孔位尺寸（单位mm）



换向与启停功能

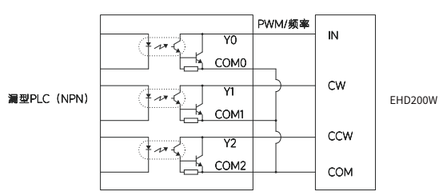
- 需要外接开关的启停/换向场景，请参照EHD200W—图示2。
- 需要通过PLC或其他上位机对方向进行切换的场合，只需将CW，CCW，COM直接接入PLC或其他上位机的输出端,无需外接继电器即可实现对电机的启停与运行方向切换请参照EHD200W—图示2。

调速方式

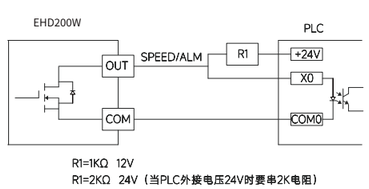
- 使用面板上的电位器旋钮调速（默认调速方式，如需其它调速方式需联系销售设定）。
- 使用PWM占空比调速：可以通过PLC等上位机（NPN漏型）输出PWM信号来控制调速—图示1。
- 使脉冲频率调速：可以通过用PLC等上位机（NPN漏型）输出频率信号来控制调速（1HZ=1RPM）—图示1。
- 固定转速（需联系销售设定）。

输出方式

- 报警输出（默认输出方式）：当调速控制器使用异常时电机会停止工作，同时显示屏上会显示相应的报警代码，当OUT输出口设置为报警输出时，此时OUT与COM将导通，OUT口为低电平—图示2。
- 速度输出：当电机运转时会同步当前电机转速输出相应频率1RPM=1HZ（需联系销售设定）—图示2。



图示1



图示2

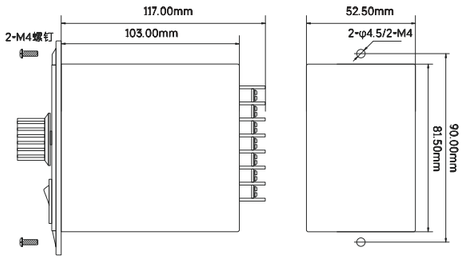
PANEL TYPE BLDC SPEED CONTROLLER

HM-EHD200W
AC220V

- One-key Start/Stop, Simple Application
- Knob Speed Regulation, Intuitive & Convenient
- Connectable to PLC Host Computer for Programming Control
- Integrated Wiring to Prevent Misoperation
- Torque Mode for Stable Output



Model	EHD200W
Installation Method	Panel - type
Power Supply Voltage	Single - phase 220V / Single - phase 110V
Power of Compatible Brushless Speed - Regulating Motor	200W
Speed - Regulating Range	150 - 3000RPM
Operating Environment	-10°C - +45°C (No condensation)
Signal Output	Speed output / Alarm output
Speed - Regulating Method	Panel knob / PWM / Pulse signal



Direction Reversal and Start - Stop Functions

- For start - stop/direction reversal scenarios requiring an external switch, refer to EHD200W – Diagram 2.
- For cases where direction switching needs to be done via a PLC or other upper - level controller, simply connect CW, CCW, and COM directly to the output of the PLC or other upper - level controller. No external relay is needed to achieve motor start - stop and running direction switching. Refer to EHD200W – Diagram 2.

Speed Regulation Methods

- Use the potentiometer knob on the panel for speed regulation (default speed regulation method; contact sales for setting other methods if needed).
- PWM duty cycle speed regulation: PWM signals output by upper - level controllers (NPN open - drain type) such as PLC can be used to control speed – Diagram 1.
- Pulse frequency speed regulation: Frequency signals output by upper - level controllers (NPN open - drain type) such as PLC can be used to control speed (1Hz = 1RPM) – Diagram 1.
- Fixed speed (contact sales for setting).

Output Modes

- Alarm output (default output mode): When the speed controller malfunctions, the motor will stop working, and the corresponding alarm code will be displayed on the screen. When the OUT output is set as alarm output, OUT and COM will be conducting, and the OUT port will be at low level – Diagram 2.
- Speed output: When the motor runs, it will synchronously output a corresponding frequency according to the current motor speed (1RPM = 1Hz; contact sales for setting) – Diagram 2.

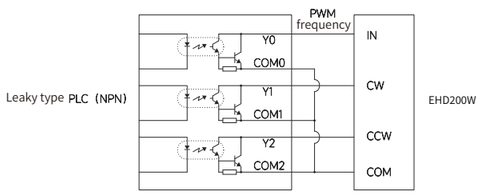


Diagram 1

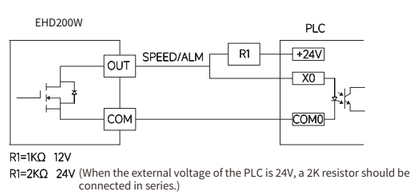


Diagram 2

面板式控制器

HM-EHD300W
AC220V

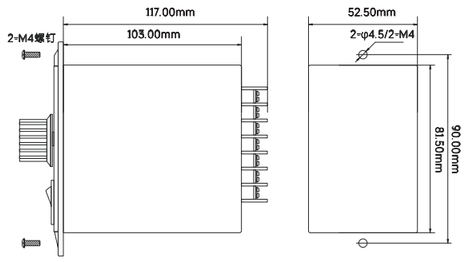
- 一键启停，应用简单
- 旋钮调速，直观便捷
- 可PLC上位机编程控制
- 集成接线口，防止按错
- 力矩模式，输出稳定



性能参数表

型号	EHD300W
安装方式	面板式
电源电压	单相220V/单相110V
适配无刷调速电机功率	300W
调速范围	150~3000RPM
使用环境	-10℃~+45℃（无结露）
信号输出	速度输出/报警输出
调速方式	面板旋钮/PWM/脉冲信号

安装孔位尺寸（单位mm）



换向与启停功能

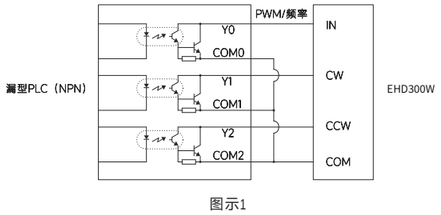
- 需要外接开关的启停/换向场景，请参照EHD300W—图示2。
- 需要通过PLC或其他上位机对方向进行切换的场合，只需将CW，CCW，COM直接接入PLC或其他上位机的输出端,无需外接继电器即可实现对电机的启停与运行方向切换请参照EHD300W—图示2。

调速方式

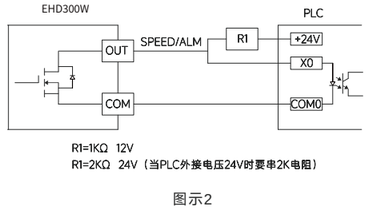
- 使用面板上的电位器旋钮调速（默认调速方式，如需其它调速方式需联系销售设定）。
- 使用PWM占空比调速：可以通过PLC等上位机（NPN漏型）输出PWM信号来控制调速—图示1。
- 使脉冲频率调速：可以通过用PLC等上位机（NPN漏型）输出频率信号来控制调速（1HZ=1RPM）—图示1。
- 固定转速（需联系销售设定）。

输出方式

- 报警输出（默认输出方式）：当调速控制器使用异常时电机会停止工作，同时显示屏上会显示相应的报警代码，当OUT输出口设置为报警输出时，此时OUT与COM将导通，OUT口为低电平—图示2。
- 速度输出：当电机运转时会同步当前电机转速输出相应频率1RPM=1HZ（需联系销售设定）—图示2。



图示1



图示2

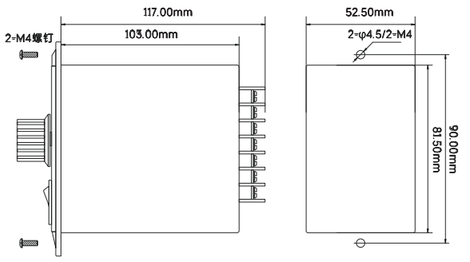
PANEL TYPE BLDC SPEED CONTROLLER

HM-EHD300W
AC220V

- One-key Start/Stop, Simple Application
- Knob Speed Regulation, Intuitive & Convenient
- Connectable to PLC Host Computer for Programming Control
- Integrated Wiring to Prevent Misoperation
- Torque Mode for Stable Output



Model	EHD300W
Installation Method	Panel - type
Power Supply Voltage	Single - phase 220V / Single - phase 110V
Power of Compatible Brushless Speed - Regulating Motor	300W
Speed - Regulating Range	150 - 3000RPM
Operating Environment	-10°C - +45°C (No condensation)
Signal Output	Speed output / Alarm output
Speed - Regulating Method	Panel knob / PWM / Pulse signal



Direction Reversal and Start - Stop Functions

- For start - stop/direction reversal scenarios requiring an external switch, please refer to EHD300W – Diagram 2.
- For cases where direction switching needs to be performed via a PLC or other upper - level device, simply connect CW, CCW, and COM directly to the output end of the PLC or other upper - level device. There is no need for an external relay to switch the start - stop and running direction of the motor. Refer to EHD300W – Diagram 2.

Speed Regulation Methods

- Use the potentiometer knob on the panel for speed regulation (default speed regulation method; contact sales for setting other speed regulation methods if needed).
- PWM duty cycle speed regulation: PWM signals can be output by upper - level devices (NPN open - drain type) such as PLC to control speed – Diagram 1.
- Pulse frequency speed regulation: Frequency signals can be output by upper - level devices (NPN open - drain type) such as PLC to control speed (1Hz = 1RPM) – Diagram 1.
- Fixed speed (contact sales for setting).

Output Modes

- Alarm output (default output mode): When the speed controller malfunctions during use, the motor will stop working, and the corresponding alarm code will be displayed on the screen. When the OUT output is set as alarm output, OUT and COM will be conducting at this time, and the OUT port will be at low level – Diagram 2.
- Speed output: When the motor runs, it will synchronously output a corresponding frequency according to the current motor speed (1RPM = 1Hz; contact sales for setting) – Diagram 2.

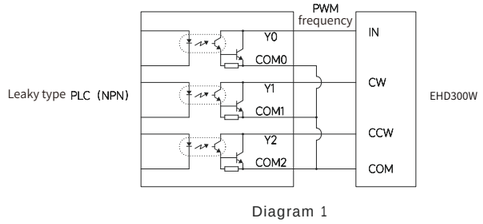


Diagram 1

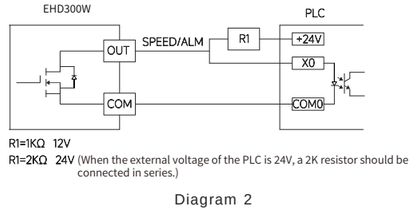


Diagram 2

面板式控制器

HM-EHD400W
AC220V

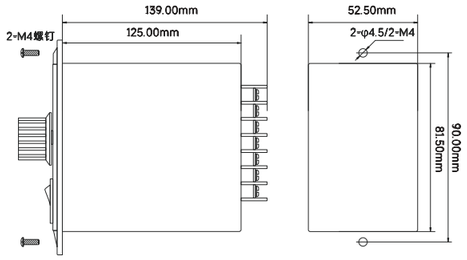
- 一键启停，应用简单
- 485通讯，更智能
- 可外接PLC控制更多样
- 一键正反转，功能可视
- 旋钮调速，直观便捷



性能参数表

型号	EHD400W
安装方式	面板式
电源电压	单相220V/单相110V
适配无刷调速电机功率	400W
调速范围	150~3000RPM
使用环境	-10℃~+45℃（无结露）
信号输出	速度输出/报警输出
调速方式	面板旋钮/PWM/脉冲信号

安装孔位尺寸（单位mm）



换向与启停功能

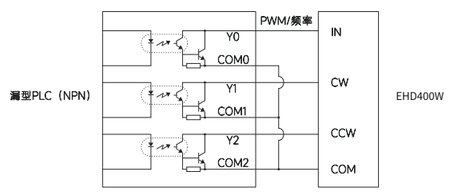
- 需要外接开关的启停/换向场景，请参照EHD400W—图示2。
- 需要通过PLC或其他上位机对方向进行切换的场合，只需将CW，CCW，COM直接接入PLC或其他上位机的输出端,无需外接继电器即可实现对电机的启停与运行方向切换请参照EHD400W—图示2。

调速方式

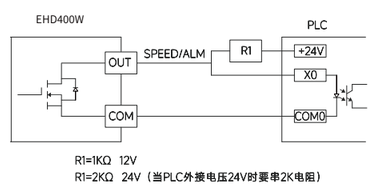
- 使用面板上的电位器旋钮调速（默认调速方式，如需其它调速方式需联系销售设定）。
- 使用PWM占空比调速：可以通过PLC等上位机（NPN漏型）输出PWM信号来控制调速—图示1。
- 使脉冲频率调速：可以通过用PLC等上位机（NPN漏型）输出频率信号来控制调速（1HZ=1RPM）—图示1。
- 固定转速（需联系销售设定）。

输出方式

- 报警输出（默认输出方式）：当调速控制器使用异常时电机会停止工作，同时显示屏上会显示相应的报警代码，当OUT输出口设置为报警输出时，此时OUT与COM将导通，OUT口为低电平—图示2。
- 速度输出：当电机运转时会同步当前电机转速输出相应频率1RPM=1HZ（需联系销售设定）—图示2。



图示1



图示2

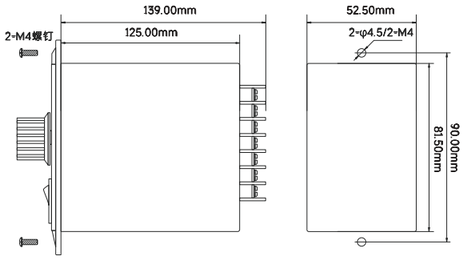
PANEL TYPE BLDC SPEED CONTROLLER

HM-EHD400W
AC220V

- One - key start - stop, simple to apply
- 485 communication, more intelligent
- Can be externally connected to PLC for more diverse control
- One - key forward and reverse rotation, functions visible
- Knob speed regulation, intuitive and convenient



Model	EHD400W
Installation Method	Panel - type
Power Supply Voltage	Single - phase 220V / Single - phase 110V
Power of Compatible Brushless Speed - Regulating Motor	400W
Speed - Regulating Range	150 - 3000RPM
Operating Environment	-10°C - +45°C (No condensation)
Signal Output	Speed output / Alarm output
Speed - Regulating Method	Panel knob / PWM / Pulse signal



Direction Reversal and Start - Stop Functions

- For start - stop/direction reversal scenarios requiring an external switch, refer to EHD400W – Diagram 2.
- For cases where direction switching needs to be done via a PLC or other upper - level controller, simply connect CW, CCW, and COM directly to the output of the PLC or other upper - level controller. No external relay is needed to switch the start - stop and running direction of the motor. Refer to EHD400W – Diagram 2.

Speed Regulation Methods

- Use the potentiometer knob on the panel for speed regulation (default speed regulation method; contact sales for setting other methods if needed).
- PWM duty cycle speed regulation: PWM signals output by upper - level controllers (NPN open - drain type) such as PLC can be used to control speed – Diagram 1.
- Pulse frequency speed regulation: Frequency signals output by upper - level controllers (NPN open - drain type) such as PLC can be used to control speed (1Hz = 1RPM) – Diagram 1.
- Fixed speed (contact sales for setting).

Output Modes

- Alarm output (default output mode): When the speed controller malfunctions during use, the motor will stop working, and the corresponding alarm code will be displayed on the screen. When the OUT output is set as alarm output, OUT and COM will be conducting, and the OUT port will be at low level – Diagram 2.
- Speed output: When the motor runs, it will synchronously output a corresponding frequency according to the current motor speed (1RPM = 1Hz; contact sales for setting) – Diagram 2.

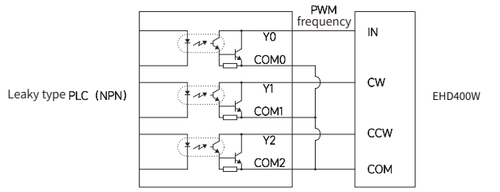


Diagram 1

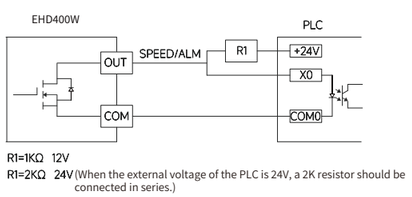


Diagram 2

面板式控制器

HM-EHD750W
AC220V

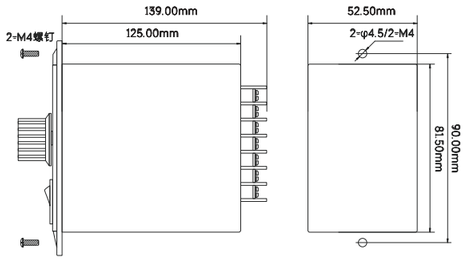
- 一键启停，应用简单
- 485通讯，更智能
- 可外接PLC控制更多样
- 一键正反转，功能可视
- 旋钮调速，直观便捷



性能参数表

型号	EHD750W
安装方式	面板式
电源电压	单相220V/单相110V
适配无刷调速电机功率	750W
调速范围	150~3000RPM
使用环境	-10℃~+45℃（无结露）
信号输出	速度输出/报警输出
调速方式	面板旋钮/PWM/脉冲信号

安装孔位尺寸（单位mm）



换向与启停功能

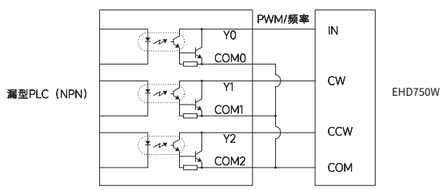
- 需要外接开关的启停/换向场景，请参照EHD750W—图示2。
- 需要通过PLC或其他上位机对方向进行切换的场合，只需将CW，CCW，COM直接接入PLC或其他上位机的输出端,无需外接继电器即可实现对电机的启停与运行方向切换请参照EHD750W—图示2。

调速方式

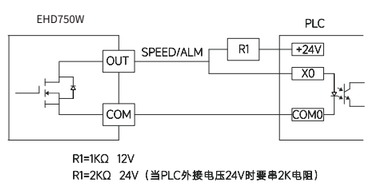
- 使用面板上的电位器旋钮调速（默认调速方式，如需其它调速方式需联系销售设定）。
- 使用PWM占空比调速：可以通过PLC等上位机（NPN漏型）输出PWM信号来控制调速—图示1。
- 使脉冲频率调速：可以通过用PLC等上位机（NPN漏型）输出频率信号来控制调速（1HZ=1RPM）—图示1。
- 固定转速（需联系销售设定）。

输出方式

- 报警输出（默认输出方式）：当调速控制器使用异常时电机会停止工作，同时显示屏上会显示相应的报警代码，当OUT输出口设置为报警输出时，此时OUT与COM将导通，OUT口为低电平—图示2。
- 速度输出：当电机运转时会同步当前电机转速输出相应频率1RPM=1HZ（需联系销售设定）—图示2。



图示1



图示2

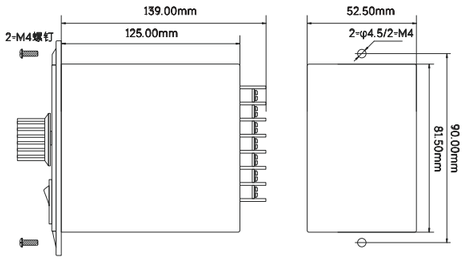
PANEL TYPE BLDC SPEED CONTROLLER

HM-EHD750W
AC220V

- One - key start - stop, simple to apply
- 485 communication, more intelligent
- Can be externally connected to PLC for more diverse control
- One - key forward and reverse rotation, functions visible
- Knob speed regulation, intuitive and convenient



Model	EHD750W
Installation Method	Panel - type
Power Supply Voltage	Single - phase 220V / Single - phase 110V
Power of Compatible Brushless Speed - Regulating Motor	750W
Speed - Regulating Range	150 - 3000RPM
Operating Environment	-10°C - +45°C (No condensation)
Signal Output	Speed output / Alarm output
Speed - Regulating Method	Panel knob / PWM / Pulse signal



Direction Reversal and Start - Stop Functions

- For start - stop/direction reversal scenarios that require an external switch, please refer to EHD750W – Diagram 2.
- For situations where direction switching needs to be performed via a PLC or other upper - level device, simply connect CW, CCW, and COM directly to the output end of the PLC or other upper - level device. There is no need for an external relay to switch the start - stop and running direction of the motor. Refer to EHD750W – Diagram 2.

Speed Regulation Methods

- Use the potentiometer knob on the panel for speed regulation (default speed regulation method; contact sales if other speed regulation methods are needed for setting).
- PWM duty cycle speed regulation: PWM signals can be output by upper - level devices (NPN open - drain type) such as PLC to control speed – Diagram 1.
- Pulse frequency speed regulation: Frequency signals can be output by upper - level devices (NPN open - drain type) such as PLC to control speed (1Hz = 1RPM) – Diagram 1.
- Fixed speed (contact sales for setting).

Output Modes

- Alarm output (default output mode): When the speed controller malfunctions during use, the motor will stop working, and the corresponding alarm code will be displayed on the screen. When the OUT output is set as alarm output, OUT and COM will be conducting at this time, and the OUT port will be at low level – Diagram 2.
- Speed output: When the motor runs, it will synchronously output a corresponding frequency according to the current motor speed (1RPM = 1Hz; contact sales for setting) – Diagram 2.

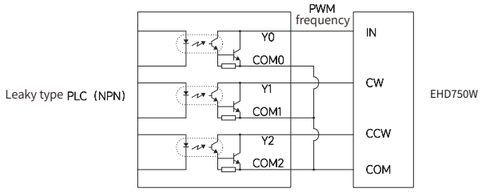


Diagram 1

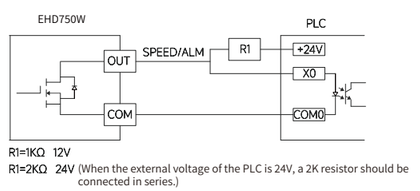


Diagram 2

面板式控制器

HM-EHD1000W
AC220V

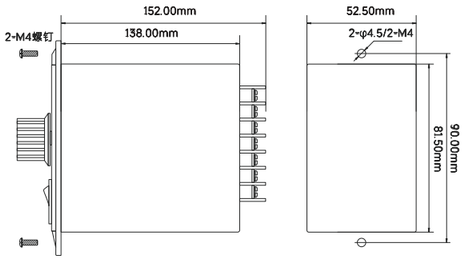
- 一键启停，应用简单
- 485通讯，更智能
- 可外接PLC控制更多样
- 一键正反转，功能可视
- 旋钮调速，直观便捷



性能参数表

型号	EHD1000W
安装方式	面板式
电源电压	单相220V/单相110V
适配无刷调速电机功率	1000W
调速范围	150~3000RPM
使用环境	-10℃~+45℃（无结露）
信号输出	速度输出/报警输出
调速方式	面板旋钮/PWM/脉冲信号

安装孔位尺寸（单位mm）



换向与启停功能

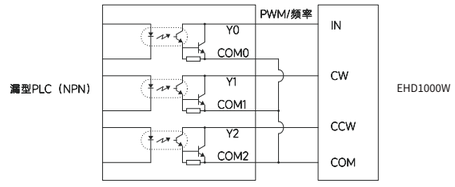
- 需要外接开关的启停/换向场景，请参照EHD1000W—图示2。
- 需要通过PLC或其他上位机对方向进行切换的场合，只需将CW，CCW，COM直接接入PLC或其他上位机的输出端,无需外接继电器即可实现对电机的启停与运行方向切换请参照EHD1000W—图示2。

调速方式

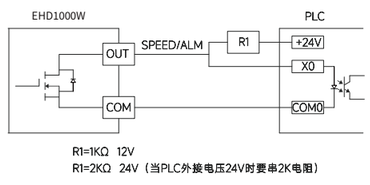
- 使用面板上的电位器旋钮调速（默认调速方式，如需其它调速方式需联系销售设定）。
- 使用PWM占空比调速：可以通过PLC等上位机（NPN漏型）输出PWM信号来控制调速—图示1。
- 使脉冲频率调速：可以通过用PLC等上位机（NPN漏型）输出频率信号来控制调速（1HZ=1RPM）—图示1。
- 固定转速（需联系销售设定）。

输出方式

- 报警输出（默认输出方式）：当调速控制器使用异常时电机会停止工作，同时显示屏上会显示相应的报警代码，当OUT输出口设置为报警输出时，此时OUT与COM将导通，OUT口为低电平—图示2。
- 速度输出：当电机运转时会同步当前电机转速输出相应频率1RPM=1HZ（需联系销售设定）—图示2。



图示1



图示2

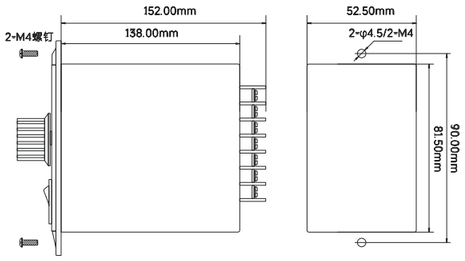
PANEL TYPE BLDC SPEED CONTROLLER

HM-EHD1000W
AC220V

- One - key start - stop, simple to apply
- 485 communication, more intelligent
- Can be externally connected to PLC for more diverse control
- One - key forward and reverse rotation, functions visible
- Knob speed regulation, intuitive and convenient



Model	EHD1000W
Installation Method	Panel - type
Power Supply Voltage	Single - phase 220V / Single - phase 110V
Power of Compatible Brushless Speed - Regulating Motor	1000W
Speed - Regulating Range	150 - 3000RPM
Operating Environment	-10°C - +45°C (No condensation)
Signal Output	Speed output / Alarm output
Speed - Regulating Method	Panel knob / PWM / Pulse signal



Direction Reversal and Start - Stop Functions

- For start - stop/direction reversal scenarios requiring an external switch, please refer to EHD1000W – Diagram 2.
- For cases where direction switching needs to be performed via a PLC or other upper - level device, simply connect CW, CCW, and COM directly to the output end of the PLC or other upper - level device. There is no need for an external relay to switch the start - stop and running direction of the motor. Please refer to EHD1000W – Diagram 2.

Speed Regulation Methods

- Use the potentiometer knob on the panel for speed regulation (default speed regulation method; contact sales if other speed regulation methods need to be set).
- PWM duty cycle speed regulation: PWM signals can be output by upper - level devices (NPN open - drain type) such as PLC to control speed – Diagram 1.
- Pulse frequency speed regulation: Frequency signals can be output by upper - level devices (NPN open - drain type) such as PLC to control speed (1Hz = 1RPM) – Diagram 1.
- Fixed speed (contact sales for setting).

Output Modes

- Alarm output (default output mode): When the speed controller malfunctions during use, the motor will stop working, and the corresponding alarm code will be displayed on the screen. When the OUT output is set as alarm output, OUT and COM will be conducting at this time, and the OUT port will be at low level – Diagram 2.
- Speed output: When the motor runs, it will synchronously output a corresponding frequency according to the current motor speed (1RPM = 1Hz; contact sales for setting) – Diagram 2.

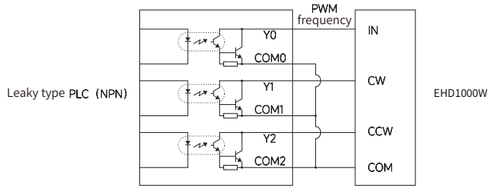


Diagram 1

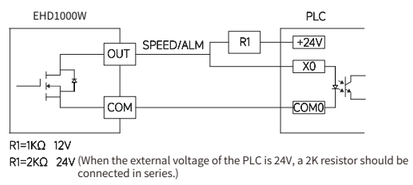


Diagram 2

面板式控制器

HM-EHD1500W
AC220V

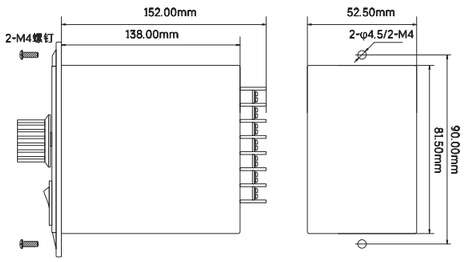
- 一键启停，应用简单
- 485通讯，更智能
- 可外接PLC控制更多样
- 一键正反转，功能可视
- 旋钮调速，直观便捷



性能参数表

型号	EHD1500W
安装方式	面板式
电源电压	单相220V/单相110V
适配无刷调速电机功率	1500W
调速范围	150-3000RPM
使用环境	-10°C~+45°C（无结露）
信号输出	速度输出/报警输出
调速方式	面板旋钮/PWM/脉冲信号

安装孔位尺寸（单位mm）



换向与启停功能

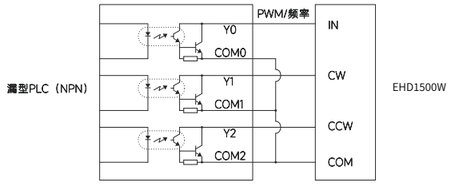
- 需要外接开关的启停/换向场景，请参照EHD1500W—图示2。
- 需要通过PLC或其他上位机对方向进行切换的场合，只需将CW，CCW，COM直接接入PLC或其他上位机的输出端,无需外接继电器即可实现对电机的启停与运行方向切换请参照EHD1500W—图示2。

调速方式

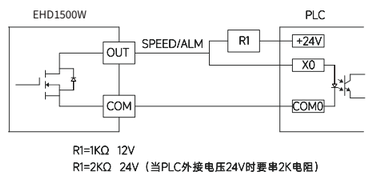
- 使用面板上的电位器旋钮调速（默认调速方式，如需其它调速方式需联系销售设定）。
- 使用PWM占空比调速：可以通过PLC等上位机（NPN漏型）输出PWM信号来控制调速—图示1。
- 使脉冲频率调速：可以通过用PLC等上位机（NPN漏型）输出频率信号来控制调速（1HZ=1RPM）—图示1。
- 固定转速（需联系销售设定）。

输出方式

- 报警输出（默认输出方式）：当调速控制器使用异常时电机会停止工作，同时显示屏上会显示相应的报警代码，当OUT输出口设置为报警输出时，此时OUT与COM将导通，OUT口为低电平—图示2。
- 速度输出：当电机运转时会同步当前电机转速输出相应频率1RPM=1HZ（需联系销售设定）—图示2。



图示1



图示2

PANEL TYPE BLDC SPEED CONTROLLER

HM-EHD1500W
AC220V

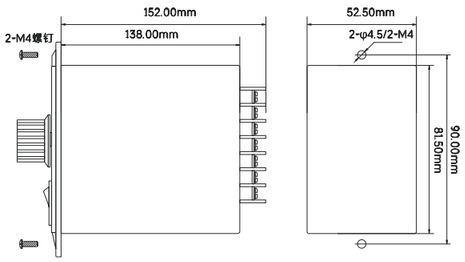
- One - key start - stop, simple to apply
- 485 communication, more intelligent
- Can be externally connected to PLC for more diverse control
- One - key forward and reverse rotation, functions visible
- Knob speed regulation, intuitive and convenient



Performance Parameter Table

Model	EHD1500W
Installation Method	Panel - type
Power Supply Voltage	Single - phase 220V / Single - phase 110V
Compatible Brushless Speed - Regulating Motor Power	1500W
Speed - Regulating Range	150 - 3000RPM
Operating Environment	-10°C~+45°C (No condensation)
Signal Output	Speed output / Alarm output
Speed - Regulating Method	Panel knob / PWM / Pulse signal

Installation Hole Dimensions (Unit: mm)



Direction Reversal and Start - Stop Functions

- For start - stop/direction reversal scenarios requiring an external switch, please refer to EHD1500W – Diagram 2.
- For cases where direction switching needs to be performed via a PLC or other upper - level device, simply connect CW, CCW, and COM directly to the output end of the PLC or other upper - level device. There is no need for an external relay to switch the start - stop and running direction of the motor. Please refer to EHD1500W – Diagram 2.

Speed Regulation Methods

- Use the potentiometer knob on the panel for speed regulation (default speed regulation method; contact sales if other speed regulation methods need to be set).
- PWM duty cycle speed regulation: PWM signals can be output by upper - level devices (NPN open - drain type) such as PLC to control speed – Diagram 1.
- Pulse frequency speed regulation: Frequency signals can be output by upper - level devices (NPN open - drain type) such as PLC to control speed (1Hz = 1RPM) – Diagram 1.
- Fixed speed (contact sales for setting).

Output Modes

- Alarm output (default output mode): When the speed controller malfunctions during use, the motor will stop working, and the corresponding alarm code will be displayed on the screen. When the OUT output is set as alarm output, OUT and COM will be conducting at this time, and the OUT port will be at low level – Diagram 2.
- Speed output: When the motor runs, it will synchronously output a corresponding frequency according to the current motor speed (1RPM = 1Hz; contact sales for setting) – Diagram 2.

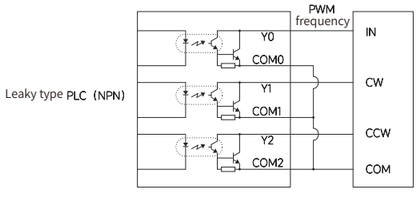


Diagram 1

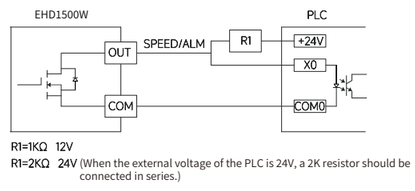


Diagram 2

内置式控制器

BLD60W
DC24V

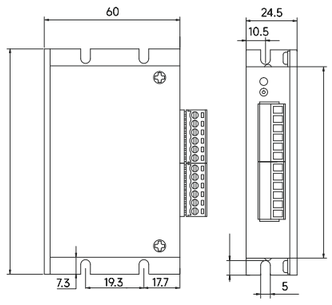
- 机箱安装，节省空间
- 多种控制方式
- 加减速时间可调
- PLC上位机编程控制
- PWM信号调速



性能参数表

型号	BLD60W
安装方式	内置式
电源电压	DC24V
适配无刷调速电机功率	60W
调速范围	150~3000RPM
使用环境	-20℃~+55℃（无结露）
调速方式	内/外置电位器/模拟量/PWM

安装孔位尺寸（单位mm）

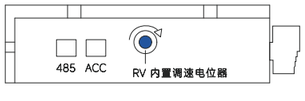


功能设定

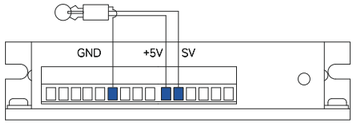
- 启动与停止：直接调速(RV 旋钮或者 SV端)可以让电机运转。刹车：断开或连接 BRK 端和 GND 端的连接线可控制电机的自然运行和快速停止。当 BRK 和 GND 端短接时，电机快速停止;反之电机正常运行。通过在 GND 与 BRK 之间接入开关或使用 PLC 等控制其通断，即可实现电机运行与快速停止的切换。
- 方向控制:F/R与GND不接为电机正转，F/R与GND短接电机反转。

调速方式

- 内置电位器RV调速：顺时针旋转内置调速电位器 RV，电机开始运行。继续顺时针旋转，电机速度增大。逆时针旋转内置电位器RV，电机速度减小;逆时针调至极限位置，此时内置调速电位器RV会关闭，电机停止运行一图示1。
- 外部电位器调速：请使用电阻值为10KΩ的电位器。电位器中间引出端连接SV端，两侧的引出端分别连接+5V/GND端一图示2。
- 外部模拟信号调速 DC0-5V输入：当需要切换到外部模拟量控制转速模式时，内置电位器 RV 必须处于关闭状态。
- PWM调速：推荐调速范围 5%~96%，高电平5V，低电平0V，频率3KHZ~15KHZ。



图示1



图示2

BLDC SPEED CONTROLLER

BLD60W
DC24V

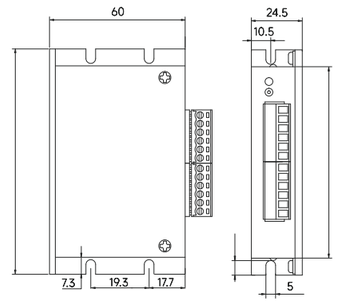
- Chassis installation, space - saving
- Multiple control methods
- Acceleration and deceleration time adjustable
- PLC upper - computer programming control
- PWM signal speed regulation



Performance Parameter Table

Model	BLD60W
Installation Method	Built - in type
Power Supply Voltage	DC24V
Power of Compatible Brushless Speed - Regulating Motor	60W
Speed - Regulating Range	150 - 3000RPM
Operating Environment	-20℃ - +55℃ (No condensation)
Speed - Regulating Method	Internal / External potentiometer / Analog quantity / PWM

Installation Hole Dimensions (Unit: mm)



Function Setting

- Start and Stop: Direct speed regulation (RV knob or SV terminal) can make the motor run. Braking: Disconnecting or connecting the wire between the BRK terminal and the GND terminal can control the natural operation and rapid stop of the motor. When the BRK and GND terminals are short - circuited, the motor stops rapidly; otherwise, the motor runs normally. By inserting a switch between GND and BRK or using a PLC to control its on - off, the switching between the motor's operation and rapid stop can be achieved.
- Direction Control: When F/R is not connected to GND, the motor rotates forward; when F/R is short - circuited to GND, the motor rotates in reverse.

Speed Regulation Methods

- Built - in Potentiometer RV Speed Regulation: Rotate the built - in speed regulation potentiometer RV clockwise, and the motor starts to run. Continue to rotate it clockwise, and the motor speed increases. Rotate the built - in potentiometer RV counterclockwise, and the motor speed decreases; when rotated counterclockwise to the limit position, the built - in speed regulation potentiometer RV will be turned off, and the motor stops running – Diagram 1.
- External Potentiometer Speed Regulation: Please use a potentiometer with a resistance value of 10KΩ. The middle lead - out terminal of the potentiometer is connected to the SV terminal, and the lead - out terminals on both sides are respectively connected to the +5V/GND terminals – Diagram 2.
- External Analog Signal Speed Regulation (DC0 - 5V Input): When it is necessary to switch to the external analog quantity to control the speed mode, the built - in potentiometer RV must be in the off state.
- PWM Speed Regulation: The recommended speed regulation range is 5% - 96%, with a high level of 5V, a low level of 0V, and a frequency of 3KHZ - 15KHZ.

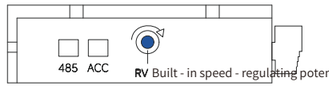


Diagram 1

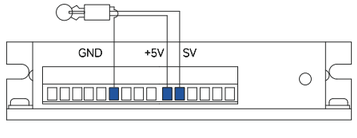


Diagram 2

内置式控制器

BLD60W
DC24V

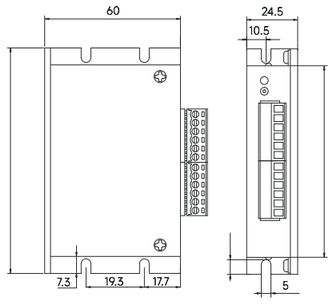
- 机箱安装，节省空间
- 多种控制方式
- 加减速时间可调
- PLC上位机编程控制
- RS-485通讯



性能参数表

型号	BLD60A
安装方式	内置式
电源电压	DC24V
适配无刷调速电机功率	60W
调速范围	150~3000RPM
使用环境	-20℃~+55℃（无结露）
调速方式	内/外置电位器/模拟量/RS485/PWM
控制功能	RS485协议控制

安装孔位尺寸（单位mm）

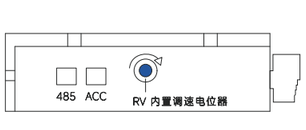


功能设定

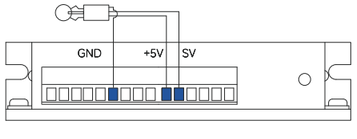
- 启动与停止：没有连接 485 通讯时，直接调速(RV 旋钮或者 SV端)可以让电机运转。连接 485 时，由上位机控制。
- 刹车：断开或连接 BRK 端和 GND 端的连接线可控制电机的自然运行和快速停止。当 BRK 和 GND 端短接时，电机快速停止;反之电机正常运行。通过在 GND 与 BRK 之间接入开关或使用 PLC 等控制其通断，即可实现电机运行与快速停止的切换。此功能不管有没有连接 485 通讯都起作用。
- 方向控制:F/R与GND不接为电机正转，F/R与GND短接电机反转。

调速方式

- 内置电位器RV调速：顺时针旋转内置调速电位器 RV，电机开始运行。继续顺时针旋转，电机速度增大。逆时针旋转内置电位器RV，电机速度减小;逆时针调至极限位置，此时内置调速电位器RV会关闭，电机停止运行一图示1。
- 外部电位器调速：请使用电阻值为10KΩ的电位器。电位器中间引出端连接SV端，两侧的引出端分别连接+5V/GND端一图示2。
- 外部模拟信号调速 DC0-5V输入：当需要切换到外部模拟量控制转速模式时，内置电位器 RV 必须处于关闭状态。
- PWM调速：推荐调速范围 5%~96%，高电平5V，低电平0V，频率3KHZ~15KHZ。



图示1



图示2

BLDC SPEED CONTROLLER

BLD60W
DC24V

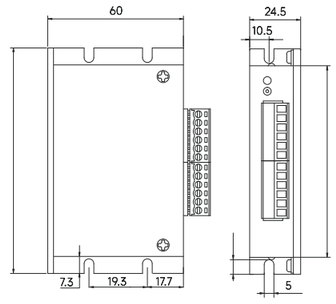
- Chassis installation, space - saving
- Multiple control methods
- Acceleration and deceleration time adjustable
- PLC upper - computer programming control
- RS-485 communication



Performance Parameter Table

Model	BLD60A
Installation Method	Built - in type
Power Supply Voltage	DC24V
Power of Compatible Brushless Speed - Regulating Motor	60W
Speed - Regulating Range	150~3000RPM
Operating Environment	-20°C~+55°C (No condensation)
Speed - Regulating Method	Internal/External potentiometer/Analog quantity/RS485/PWM
Control Function	RS485 protocol control

Installation Hole Dimensions (Unit: mm)



Function Setting

- Start and Stop: When 485 communication is not connected, direct speed regulation (RV knob or SV terminal) can make the motor run. When 485 is connected, it is controlled by the upper - level device.
- Braking: Disconnecting or connecting the wire between the BRK terminal and the GND terminal can control the natural operation and rapid stop of the motor. When the BRK and GND terminals are short - circuited, the motor stops rapidly; otherwise, the motor runs normally. By inserting a switch between GND and BRK or using a PLC to control its on - off, the switching between the motor's operation and rapid stop can be achieved. This function works regardless of whether 485 communication is connected.
- Direction Control: When F/R is not connected to GND, the motor rotates forward; when F/R is short - circuited to GND, the motor rotates in reverse.

Speed Regulation Methods

- Built - in Potentiometer RV Speed Regulation: Rotate the built - in speed regulation potentiometer RV clockwise, and the motor starts to run. Continue to rotate it clockwise, and the motor speed increases. Rotate the built - in potentiometer RV counterclockwise, and the motor speed decreases; when rotated counterclockwise to the limit position, the built - in speed regulation potentiometer RV will be turned off, and the motor stops running – Diagram 1.
- External Potentiometer Speed Regulation: Please use a potentiometer with a resistance value of 10KΩ. The middle lead - out terminal of the potentiometer is connected to the SV terminal, and the lead - out terminals on both sides are respectively connected to the +5V/GND terminals – Diagram 2.
- External Analog Signal Speed Regulation (DC0 - 5V Input): When it is necessary to switch to the external analog quantity to control the speed mode, the built - in potentiometer RV must be in the off state.
- PWM Speed Regulation: The recommended speed regulation range is 5% - 96%, with a high level of 5V, a low level of 0V, and a frequency of 3KHZ - 15KHZ.

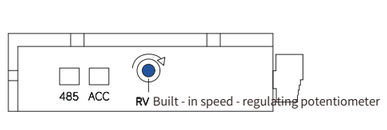


Diagram 1

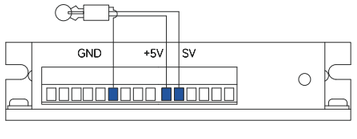


Diagram 2

内置式控制器

BLD120W
DC24V

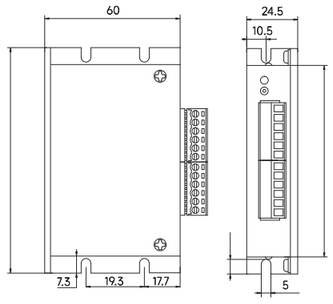
- 机箱安装，节省空间
- 多种控制方式
- 加减速时间外置
- PLC上位机编程控制
- PWM信号调速



性能参数表

型号	BLD120W
安装方式	内置式
电源电压	DC24V
适配无刷调速电机功率	120W
调速范围	150~3000RPM
使用环境	-20℃~+55℃（无结露）
调速方式	内/外置电位器/模拟量/PWM

安装孔位尺寸（单位mm）

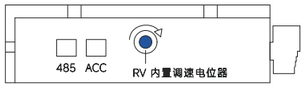


功能设定

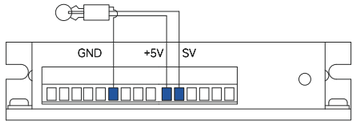
- 启动与停止：直接调速(RV 旋钮或者 SV端)可以让电机运转。
- 刹车：断开或连接 BRK 端和 GND 端的连接线可控制电机的自然运行和快速停止。当 BRK 和 GND 端短接时，电机快速停止;反之电机正常运行。通过在 GND 与 BRK 之间接入开关或使用 PLC 等控制其通断，即可实现电机运行与快速停止的切换。
- 方向控制：F/R端口不接为电机正转，F/R与GND短接电机反转。

调速方式

- 内置电位器RV调速：顺时针旋转内置调速电位器 RV，电机开始运行。继续顺时针旋转，电机速度增大。逆时针旋转内置电位器RV，电机速度减小;逆时针调至极限位置，此时内置调速电位器RV会关闭，电机停止运行—图示1。
- 外部电位器调速：请使用电阻值为10KΩ的电位器。电位器中间引出端连接SV端，两侧的引出端分别连接+5V/GND端—图示2。
- 外部模拟信号调速 DC0-5V：当需要切换到外部模拟量控制转速模式时，内置电位器 RV 必须处于关闭状态。使用 24V 3000RPM 4 对极电机，板上设置闭环 4 对极。
- PWM调速：推荐调速范围 5%~96%，详细配置请参照说明书。



图示1



图示2

BLDC SPEED CONTROLLER

BLD120W
DC24V

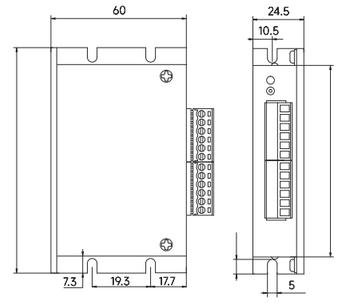
- Chassis installation, space - saving
- Multiple control methods
- Acceleration and deceleration time is external
- PLC upper - computer programming control
- PWM signal speed regulation



Performance Parameter Table

Model	BLD120W
Installation Method	Built - in type
Power Supply Voltage	DC24V
Power of Compatible Brushless Speed - Regulating Motor	120W
Speed - Regulating Range	150~3000RPM
Operating Environment	-20°C~+55°C (No condensation)
Speed - Regulating Method	Internal/External potentiometer/Analog quantity/PWM

Installation Hole Dimensions (Unit: mm)



Function Setting

- Start and Stop: Direct speed regulation (RV knob or SV terminal) can make the motor run.
- Braking: Disconnecting or connecting the wire between the BRK terminal and the GND terminal can control the natural operation and rapid stop of the motor. When the BRK and GND terminals are short - circuited, the motor stops rapidly; otherwise, the motor runs normally. By inserting a switch between GND and BRK or using a PLC to control its on - off, the switching between the motor's operation and rapid stop can be achieved.
- Direction Control: When the F/R port is not connected, the motor rotates forward; when F/R is short - circuited to GND, the motor rotates in reverse.

Speed Regulation Methods

- Built - in Potentiometer RV Speed Regulation: Rotate the built - in speed regulation potentiometer RV clockwise, and the motor starts to run. Continue to rotate it clockwise, and the motor speed increases. Rotate the built - in potentiometer RV counterclockwise, and the motor speed decreases; when rotated counterclockwise to the limit position, the built - in speed regulation potentiometer RV will be turned off, and the motor stops running – Diagram 1.
- External Potentiometer Speed Regulation: Please use a potentiometer with a resistance value of 10KΩ. The middle lead - out terminal of the potentiometer is connected to the SV terminal, and the lead - out terminals on both sides are respectively connected to the +5V/GND terminals – Diagram 2.
- External Analog Signal Speed Regulation (DC0 - 5V): When it is necessary to switch to the external analog quantity to control the speed mode, the built - in potentiometer RV must be in the off state. When using a 24V 3000RPM 4 - pole motor, set the closed - loop 4 - pole on the board.
- PWM Speed Regulation: The recommended speed regulation range is 5% - 96%. For detailed configuration, please refer to the instruction manual.

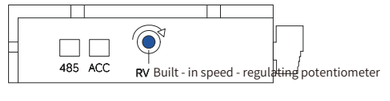


Diagram 1

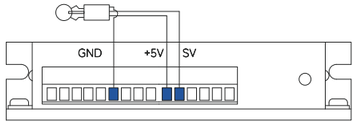


Diagram 2

内置式控制器

BLD120W
DC24V

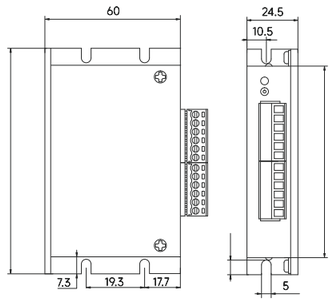
- 机箱安装，节省空间
- 多种控制方式
- 加减速时间外置
- PLC上位机编程控制
- 485通讯控制



性能参数表

型号	BLD120W
安装方式	内置式
电源电压	DC24V
适配无刷调速电机功率	120W
调速范围	150~3000RPM
使用环境	-20℃~+55℃（无结露）
调速方式	内/外置电位器/模拟量/RS485/PWM
控制功能	RS485协议控制

安装孔位尺寸（单位mm）



功能设定

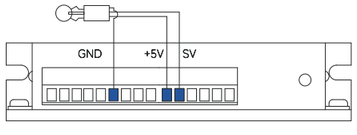
- 启动与停止：没有连接 485 通讯时，直接调速(RV 旋钮或者 SV端)可以让电机运转。连接 485 时，由上位机控制。
- 刹车：断开或连接 BRK 端和 GND 端的连接线可控制电机的自然运行和快速停止。当 BRK 和 GND 端短接时，电机快速停止;反之电机正常运行。通过在 GND 与 BRK 之间接入开关或使用 PLC 等控制其通断，即可实现电机运行与快速停止的切换。此功能不管有没有连接 485 通讯都起作用。
- 方向控制：F/R端口不接为电机正转，F/R与GND短接电机反转。

调速方式

- 内置电位器RV调速：顺时针旋转内置调速电位器 RV，电机开始运行。继续顺时针旋转，电机速度增大。逆时针旋转内置电位器RV，电机速度减小;逆时针调至极限位置，此时内置调速电位器RV会关闭，电机停止运行—图示1。
- 外部电位器调速：请使用电阻值为10KΩ的电位器。电位器中间引出端连接SV端，两侧的引出端分别连接+5V/GND端—图示2。
- 外部模拟信号调速 DC0-5V：当需要切换到外部模拟量控制转速模式时，内置电位器 RV 必须处于关闭状态。使用 24V 3000RPM 4 对极电机，板上设置闭环 4 对极。
- PWM调速：推荐调速范围 5%~96%，详细配置请参照说明书。



图示1



图示2

BLDC SPEED CONTROLLER

BLD120W
DC24V

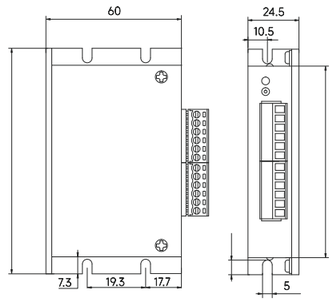
- Chassis installation, space - saving
- Multiple control methods
- Acceleration and deceleration time is external
- PLC upper - computer programming control
- 485 communication control



Performance Parameter Table

Model	BLD120W
Installation Method	Built - in type
Power Supply Voltage	DC24V
Power of Compatible Brushless Speed - Regulating Motor	120W
Speed - Regulating Range	150~3000RPM
Operating Environment	-20°C~+55°C (No condensation)
Speed - Regulating Method	Internal/External potentiometer/Analog quantity/RS485/PWM
Control Function	RS485 protocol control

Installation Hole Dimensions (Unit: mm)



Function Setting

- Start and Stop: When 485 communication is not connected, direct speed regulation (RV knob or SV terminal) can make the motor run. When 485 is connected, it is controlled by the upper - level device.
- Braking: Disconnecting or connecting the wire between the BRK terminal and the GND terminal can control the natural operation and rapid stop of the motor. When the BRK and GND terminals are short - circuited, the motor stops rapidly; otherwise, the motor runs normally. By inserting a switch between GND and BRK or using a PLC to control its on - off, the switching between the motor's operation and rapid stop can be achieved. This function works regardless of whether 485 communication is connected.
- Direction Control: When the F/R port is not connected, the motor rotates forward; when F/R is short - circuited to GND, the motor rotates in reverse.

Speed Regulation Methods

- Built - in Potentiometer RV Speed Regulation: Rotate the built - in speed regulation potentiometer RV clockwise, and the motor starts to run. Continue to rotate it clockwise, and the motor speed increases. Rotate the built - in potentiometer RV counterclockwise, and the motor speed decreases; when rotated counterclockwise to the limit position, the built - in speed regulation potentiometer RV will be turned off, and the motor stops running – Diagram 1.
- External Potentiometer Speed Regulation: Please use a potentiometer with a resistance value of 10KΩ. The middle lead - out terminal of the potentiometer is connected to the SV terminal, and the lead - out terminals on both sides are respectively connected to the +5V/GND terminals – Diagram 2.
- External Analog Signal Speed Regulation (DC0 - 5V): When it is necessary to switch to the external analog quantity to control the speed mode, the built - in potentiometer RV must be in the off state. When using a 24V 3000RPM 4 - pole motor, set the closed - loop 4 - pole on the board.
- PWM Speed Regulation: The recommended speed regulation range is 5% - 96%. For detailed configuration, please refer to the instruction manual.

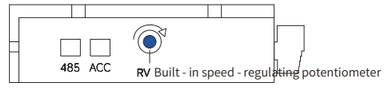


Diagram 1

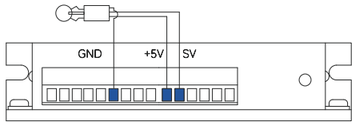


Diagram 2

内置式控制器

BLD300W
DC48V

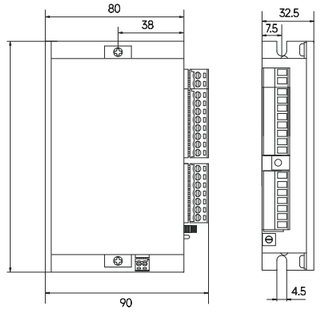
- 机箱安装，节省空间
- 外置电位器调速
- 加减速时间外置可调
- PLC上位机编程控制



性能参数表

型号	BLD300W
安装方式	内置式
电源电压	DC24V/DC48V
适配无刷调速电机功率	300W
调速范围	150~3000RPM
使用环境	-20℃~+55℃（无结露）
调速方式	内/外置电位器/模拟量/PWM/脉冲频率

安装孔位尺寸（单位mm）

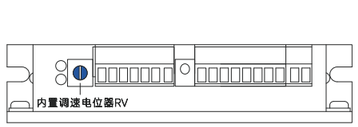


功能设定

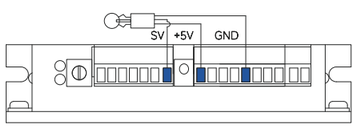
- 启动与停止：连接或断开EN端和COM端的连接线可控制电机的运行与停止。当EN端和COM端连接起来后，电机运行。反之，电机缓慢停止。通过在COM与EN之间接入开关或使用PLC等控制其通断，即可实现电机启动与停止的切换。
- 刹车：断开或连接BRK端和COM端的连接线可控制电机的自然运行和快速停止。当连接BRK和COM端的连接线时，电机快速停止反之，电机正常运行。通过在COM与BRK之间接入开关或使用PLC等控制其通断，即可实现电机运行与快速停止的切换。
- 方向控制：连接或断开F/R端和COM端的连接线可控制电机的正反转当断开F/R端和COM端的连接线时，电机正转。当连接F/R端和COM端的连接线时，电机反转。
- 闭环工作：电机始终运行速度闭环模式。
- 输出信号：可进行速度信号输出与报警信号输出。

调速方式

- 内置电位器RV调速：顺时针旋转内置调速电位器 RV，电机开始运行。继续顺时针旋转，电机速度增大。逆时针旋转内置电位器RV，电机速度减小;逆时针调至极限位置，此时内置调速电位器RV会关闭，电机停止运行一图示1。
- 外部电位器调速：请使用电阻值为10KΩ的适合电位器。电位器中间引出端连接SV端，两侧的引出端分别连接+5V、GND端一图示2。
- 外部模拟信号调速DC0-5V：当需要切换到外部模拟量控制转速模式时，内置电位器RV必须处于关闭状态，SV、GND输入0-5V信号。
- RS485调速：可使用RS-485通讯方式调速，通讯协议详见说明书参考。



图示1



图示2

BLDC SPEED CONTROLLER

BLD300W
DC48V

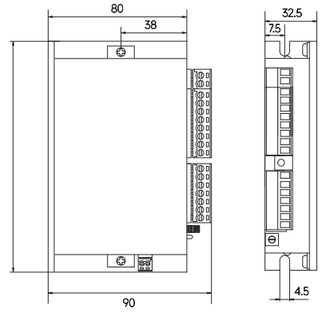
- Chassis Mounting for Space Efficiency
- External Potentiometer Speed Regulation
- Externally Adjustable Acceleration/Deceleration Time
- PLC Host Computer Programming Control



Performance Parameter Table

Model	BLD300W
Installation Method	Built - in type
Power Supply Voltage	DC24V/DC48V
Power of Compatible Brushless Speed - Regulating Motor	300W
Speed - Regulating Range	150~3000RPM
Operating Environment	-20°C~+55°C (No condensation)
Speed - Regulating Method	Internal/External potentiometer/Analog quantity/PWM/Pulse frequency

Installation Hole Dimensions (Unit: mm)



Function Setting

- Start and Stop: Connecting or disconnecting the wire between the EN terminal and the COM terminal can control the operation and stop of the motor. When the EN terminal and the COM terminal are connected, the motor runs. Conversely, the motor stops slowly. By inserting a switch between COM and EN or using a PLC to control its on-off, the switching between the motor's start and stop can be achieved.
- Braking: Disconnecting or connecting the wire between the BRK terminal and the COM terminal can control the natural operation and rapid stop of the motor. When the wire between the BRK terminal and the COM terminal is connected, the motor stops rapidly; conversely, the motor runs normally. By inserting a switch between COM and BRK or using a PLC to control its on-off, the switching between the motor's operation and rapid stop can be achieved.
- Direction Control: Connecting or disconnecting the wire between the F/R terminal and the COM terminal can control the forward and reverse rotation of the motor. When the wire between the F/R terminal and the COM terminal is disconnected, the motor rotates forward. When the wire between the F/R terminal and the COM terminal is connected, the motor rotates in reverse.
- Closed - loop Operation: The motor always operates in the speed closed - loop mode.
- Output Signals: Can output speed signals and alarm signals.

Speed Regulation Methods

- Built - in Potentiometer RV Speed Regulation: Rotate the built - in speed regulation potentiometer RV clockwise, and the motor starts to run. Continue to rotate it clockwise, and the motor speed increases. Rotate the built - in potentiometer RV counterclockwise, and the motor speed decreases; when rotated counterclockwise to the limit position, the built - in speed regulation potentiometer RV will be turned off, and the motor stops running – Diagram 1.
- External Potentiometer Speed Regulation: Please use a suitable potentiometer with a resistance value of 10KΩ. The middle lead - out terminal of the potentiometer is connected to the SV terminal, and the lead - out terminals on both sides are respectively connected to the +5V and GND terminals – Diagram 2.
- External Analog Signal Speed Regulation (DC0 - 5V): When it is necessary to switch to the external analog quantity to control the speed mode, the built - in potentiometer RV must be in the off state, and the SV and GND input 0 - 5V signals.
- RS485 Speed Regulation: Speed regulation can be performed using the RS - 485 communication method. For the communication protocol, please refer to the instruction manual for details.

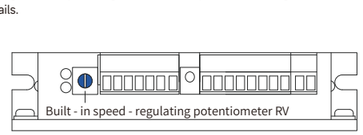


Diagram 1

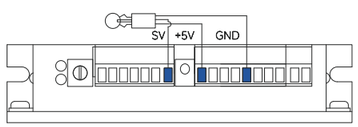


Diagram 2

内置式控制器

BLD300WR
DC48V

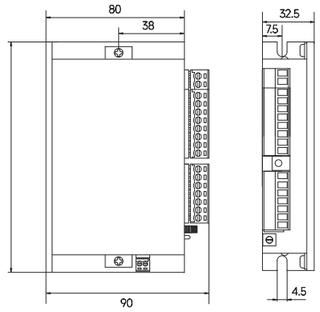
- 机箱安装，节省空间
- 外置电位器调速
- 加减速时间外置可调
- PLC上位机编程控制
- 485通讯控制



性能参数表

型号	BLR300A
安装方式	内置式
电源电压	DC24V/DC48V
适配无刷调速电机功率	300W
调速范围	150~3000RPM
使用环境	-20℃~+55℃（无结露）
调速方式	内/外置电位器/模拟量/RS485
控制功能	RS485协议控制

安装孔位尺寸（单位mm）

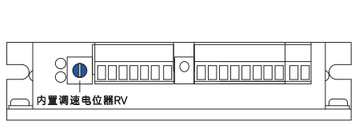


功能设定

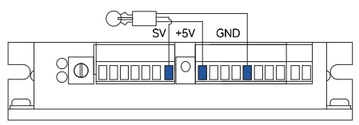
- 启动与停止：连接或断开EN端和COM端的连接线可控制电机的运行与停止。当EN端和COM端连接起来后，电机运行。反之，电机缓慢停止。通过在COM与EN之间接入开关或使用PLC等控制其通断，即可实现电机启动与停止的切换。
- 刹车：断开或连接BRK端和COM端的连接线可控制电机的自然运行和快速停止。当连接BRK和COM端的连接线时，电机快速停止反之，电机正常运行。通过在COM与BRK之间接入开关或使用PLC等控制其通断，即可实现电机运行与快速停止的切换。
- 方向控制：连接或断开F/R端和COM端的连接线可控制电机的正反转当断开F/R端和COM端的连接线时，电机正转。当连接F/R端和COM端的连接线时，电机反转。
- 闭环工作：电机始终运行速度闭环模式。
- 输出信号：可进行速度信号输出与报警信号输出。

调速方式

- 内置电位器RV调速：顺时针旋转内置调速电位器 RV，电机开始运行。继续顺时针旋转，电机速度增大。逆时针旋转内置电位器RV，电机速度减小;逆时针调至极限位置，此时内置调速电位器RV会关闭，电机停止运行一图示1。
- 外部电位器调速：请使用电阻值为10KΩ的适合电位器。电位器中间引出端连接SV端，两侧的引出端分别连接+5V、GND端一图示2。
- 外部模拟信号调速DC0-5V：当需要切换到外部模拟量控制转速模式时，内置电位器RV必须处于关闭状态，SV、GND输入0-5V信号。
- RS485调速：可使用RS-485通讯方式调速，通讯协议详见说明书参考。



图示1



图示2

BLDC SPEED CONTROLLER

BLD300WR
DC48V

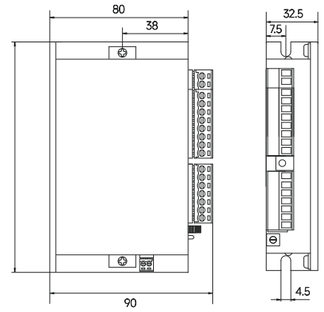
- Chassis installation, space - saving
- External Potentiometer Speed Regulation
- Externally Adjustable Acceleration/Deceleration Time
- PLC upper - computer programming control
- 485 communication control



Performance Parameter Table

Model	BLR300A
Installation Method	Built - in type
Power Supply Voltage	DC24V/DC48V
Power of Compatible brushless speed-regulating motor	300W
Speed - regulating Range	150 - 3000RPM
Operating Environment	-20°C - +55°C (No condensation)
Speed - regulating Method	Internal/External potentiometer/Analog quantity/RS485
Control Function	RS485 protocol control

Installation Hole Dimensions (Unit: mm)



Function Setting

- Start and Stop: Connecting or disconnecting the wire between the EN terminal and the COM terminal can control the operation and stop of the motor. When the EN terminal and the COM terminal are connected, the motor runs. Conversely, the motor stops slowly. By inserting a switch between COM and EN or using a PLC to control its on-off, the switching between the motor's start and stop can be achieved.
- Braking: Disconnecting or connecting the wire between the BRK terminal and the COM terminal can control the natural operation and rapid stop of the motor. When the wire between the BRK terminal and the COM terminal is connected, the motor stops rapidly; conversely, the motor runs normally. By inserting a switch between COM and BRK or using a PLC to control its on-off, the switching between the motor's operation and rapid stop can be achieved.
- Direction Control: Connecting or disconnecting the wire between the F/R terminal and the COM terminal can control the forward and reverse rotation of the motor. When the wire between the F/R terminal and the COM terminal is disconnected, the motor rotates forward. When the wire between the F/R terminal and the COM terminal is connected, the motor rotates in reverse.
- Closed - loop Operation: The motor always operates in the speed closed - loop mode.
- Output Signals: Can output speed signals and alarm signals.

Speed Regulation Methods

- Built - in Potentiometer RV Speed Regulation: Rotate the built - in speed regulation potentiometer RV clockwise, and the motor starts to run. Continue to rotate it clockwise, and the motor speed increases. Rotate the built - in potentiometer RV counterclockwise, and the motor speed decreases; when rotated counterclockwise to the limit position, the built - in speed regulation potentiometer RV will be turned off, and the motor stops running – Diagram 1.
- External Potentiometer Speed Regulation: Please use a suitable potentiometer with a resistance value of 10KΩ. The middle lead - out terminal of the potentiometer is connected to the SV terminal, and the lead - out terminals on both sides are respectively connected to the +5V and GND terminals – Diagram 2.
- External Analog Signal Speed Regulation (DC0 - 5V): When it is necessary to switch to the external analog quantity to control the speed mode, the built - in potentiometer RV must be in the off state, and the SV and GND input 0 - 5V signals.
- RS485 Speed Regulation: Speed regulation can be performed using the RS - 485 communication method. For the communication protocol, please refer to the instruction manual for details.



Diagram 1

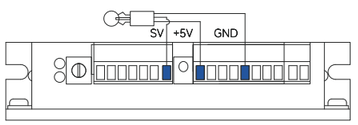


Diagram 2

内置式控制器

BLD750W
DC48V

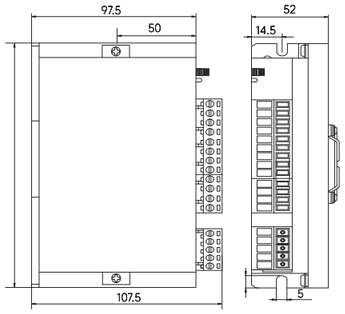
- 机箱内安装，节省空间
- 多种控制方式
- 加减速时间外置可调
- PLC上位机编程控制



性能参数表

型号	BLD750W
安装方式	内置式
电源电压	DC24V/DC48V
适配无刷调速电机功率	750W
调速范围	150~3000RPM
使用环境	-20℃~+55℃（无结露）
调速方式	内/外置电位器/模拟量/PWM/脉冲频率

安装孔位尺寸（单位mm）



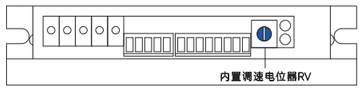
功能设定

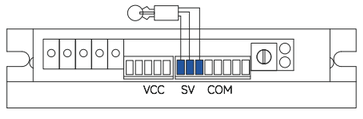
- 加、减速时间设定：通过电位器ISL ACC/DEC设置电机的加速时间和减速时间。
- 电机极对数设定：为了更好地匹配不同极对数的直流无刷电机，可通过SW2设定电机的极对数。
- 开/闭环控制设定：通过SW1选择开、闭环控制。ON=闭环控制：OFF=开环控制。注意:闭环控制的时候请根据对应电机极数设定SW2。
- 启动与停止：EN端与COM端的出厂设定是将EN端与COM端相连（为电机运行状态）。
- 快速停止：BRK端与COM端的出厂设定是BRK端与COM端相连（为电机运行状态）。
- 方向控制：F/R端和COM端的出厂设定是F/R端和COM端并未相连时电机正转，F/R端和COM端相连时电机反转。

调速方式

- 内置电位器RV调速：顺时针旋转内置调速电位器 RV，电机开始运行一图示1。
- 外部电位器调速：请使用电阻值为10KΩ的适合电位器。电位器中间引出端连接SV端，两侧的引出端分别连接VCC、COM端一图示2。
- 外部模拟信号调速DC0-5V：当需要切换到外部SV输入控制转速模式时，内置电位器RV必须处于关闭状态—图示3。
- 使用脉冲频率调速：应打下SW3为ON状态内置电位器RV必须处于关闭状态—图示4。

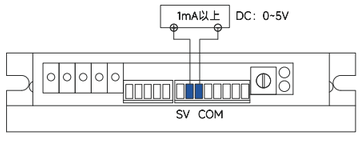
图示1

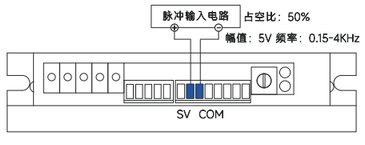




图示2

图示3





图示4

CHBNS 传承之道 稳行致远
THE WAY OF INHERITANCE IS STEADY AND FAR-REACHING
传动装置**专业制造商**
PROFESSIONAL MANUFACTURER OF TRANSMISSION DEVICE
直流无刷控制器 DC BRUSHLESS CONTROLLER

BLDC SPEED CONTROLLER

BLD750W
DC48V

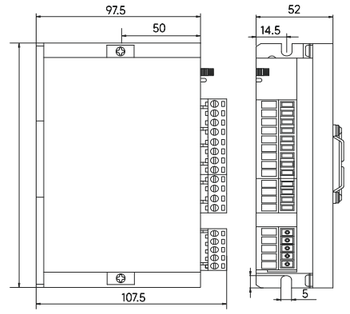
- Internal Chassis Installation for Space Saving
- Multiple Control Modes
- Externally Adjustable Acceleration/Deceleration Time
- PLC Host Computer Programming Control



Performance Parameter Table

Model	BLD750W
Installation Method	Built - in type
Power Supply Voltage	DC24V/DC48V
Power of Compatible Brushless Speed - Regulating Motor	750W
Speed - Regulating Range	150~3000RPM
Operating Environment	-20℃~+55℃ (No condensation)
Speed - Regulating Method	Internal/External potentiometer/Analog quantity/PWM/Pulse frequency

Installation Hole Dimensions (Unit: mm)



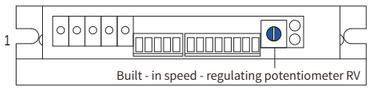
Function Setting

- Acceleration and Deceleration Time Setting: Set the acceleration time and deceleration time of the motor through the potentiometers ACC/DEC.
- Motor Pole - pair Number Setting: To better match DC brushless motors with different pole - pair numbers, the pole - pair number of the motor can be set through SW2.
- Open/Closed - loop Control Setting: Select open - loop or closed - loop control through SW1. ON = closed - loop control; OFF = open - loop control. Note: When in closed - loop control, please set SW2 according to the corresponding motor pole number.
- Start and Stop: The factory setting for the EN terminal and the COM terminal is to connect the EN terminal and the COM terminal (for the motor running state).
- Rapid Stop: The factory setting for the BRK terminal and the COM terminal is to connect the BRK terminal and the COM terminal (for the motor running state).
- Direction Control: The factory setting for the F/R terminal and the COM terminal is that the motor rotates forward when the F/R terminal and the COM terminal are not connected, and the motor rotates in reverse when the F/R terminal and the COM terminal are connected.

Speed Regulation Methods

- Built - in Potentiometer RV Speed Regulation: Rotate the built - in speed regulation potentiometer RV clockwise, and the motor starts to run – Diagram 1.
- External Potentiometer Speed Regulation: Please use a suitable potentiometer with a resistance value of 10KΩ. The middle lead - out terminal of the potentiometer is connected to the SV terminal, and the lead - out terminals on both sides are respectively connected to the VCC and COM terminals – Diagram 2.
- External Analog Signal Speed Regulation (DC0 - 5V): When it is necessary to switch to the external SV input to control the speed mode, the built - in potentiometer RV must be in the off state – Diagram 3.
- Speed Regulation Using Pulse Frequency: SW3 should be set to the ON state, and the built - in potentiometer RV must be in the off state – Diagram 4.

Diagram 1



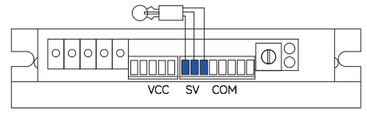
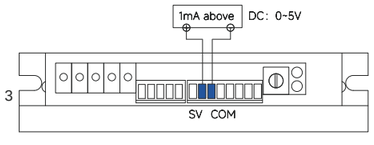


Diagram 2

Diagram 3



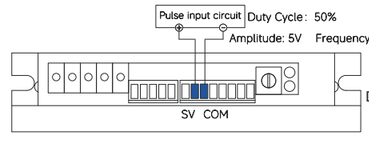


Diagram 4

内置式控制器

BLDH400W
AC220V

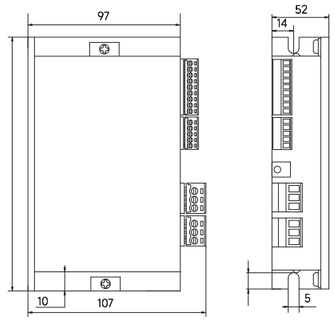
- 机箱内安装，节省空间
- 多种控制方式
- 加减速时间外置可调
- PLC上位机编程控制



性能参数表

型号	BLDH400W
安装方式	内置式
电源电压	单相220V/单相110V
适配无刷调速电机功率	400W
调速范围	150~3000RPM
使用环境	-20℃~+55℃（无结露）
调速方式	内/外置电位器/模拟量/PWM/脉冲频率
控制功能	RS485协议控制

安装孔位尺寸（单位mm）



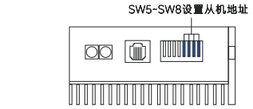
功能设定

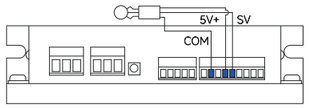
- 加、减速时间设定：通过电位器ACC/DEC设置电机的加速时间和减速时间。
- 电机极对数设定：为了更好地匹配不同极对数的直流无刷电机，可通过SW2,SW3设定电机的极对数。
- 启动与停止：EN端与COM端的出厂设定是将EN端与COM端相连启动，将EN端与COM端断开电机自由停止。
- 快速停止：BRK端与COM端的出厂设定是BRK端与COM端默认断开运行，将BRK端与COM端短接电机立即停止。
- 方向控制：F/R端和COM端的出厂设定是F/R端和COM端并未相连电机正转，F/R端和COM端相连电机反转。
- 输出信号：可进行速度信号输出与报警信号输出。

控制方式

- 内置电位器RV调速：顺时针旋转内置调速电位器 RV，电机开始运行。
- RS485调速：拨码开关中SW5~SW8的作用是设置从机地址，设置方式-图示1。详细设置请参考产品说明书。
- 外部电位器调速：请使用电阻值为10KΩ的适合电位器。电位器中间引出端连接SV端，两侧的引出端分别连接VCC、COM端-图示2。
- 外部模拟信号调速DC0-5V：当需要切换到外部SV输入控制转速模式时，内置电位器RV必须处于关闭状态-图示3。
- 使用脉冲频率/PWM调速：当SW4为OFF状态为频率调速，当SW4为ON状态为PWM调速，内置电位器RV必须处于关闭状态-图示4。

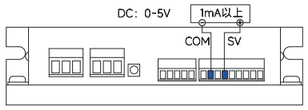
图示1

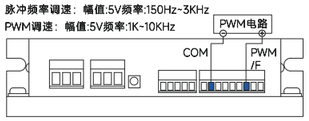




图示2

图示3





图示4

BLDC SPEED CONTROLLER

BLDH400W
AC220V

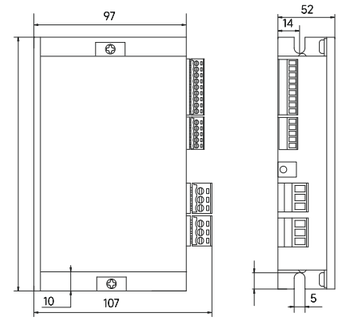
- Panel Mount Installation for Space Efficiency
- Multiple Control Methods
- Externally Adjustable Acceleration/Deceleration Time
- PLC Host Computer Programming Control



Performance Parameter Table

Model	BLDH400W
Installation Method	Built - in type
Power Supply Voltage	Single - phase 220V / Single - phase 110V
Power of Adapted Brushless Speed - Regulating Motor	400W
Speed - Regulating Range	150 - 3000RPM
Operating Environment	-20°C - +55°C (No condensation)
Source of Speed Signal	Internal / External potentiometer / Analog quantity / PWM / Pulse frequency
Speed - Regulating Method	RS485 protocol control

Installation Hole Dimensions (Unit: mm)



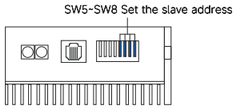
Function Setting

- Acceleration and Deceleration Time Setting: Set the acceleration time and deceleration time of the motor via the potentiometers ACC/DEC.
- Motor Pole - pair Number Setting: To better match DC brushless motors with different pole - pair numbers, the pole - pair number of the motor can be set via SW2 and SW3.
- Start and Stop: The factory setting for the EN terminal and the COM terminal is that connecting the EN terminal and the COM terminal starts the motor, and disconnecting them allows the motor to stop freely.
- Rapid Stop: The factory setting for the BRK terminal and the COM terminal is that they are normally open during operation, and short - circuiting them stops the motor immediately.
- Direction Control: The factory setting for the F/R terminal and the COM terminal is that the motor rotates forward when they are not connected and reverses when they are connected.
- Output Signals: Capable of outputting speed signals and alarm signals.

Control Modes

- Built - in Potentiometer RV Speed Regulation: Rotate the built - in speed regulation potentiometer RV clockwise, and the motor starts to run.
- RS485 Speed Regulation: The function of DIP switches SW5 - SW8 is to set the slave address. Setting method – Diagram 1. For detailed settings, please refer to the product instruction manual.
- External Potentiometer Speed Regulation: Please use a suitable potentiometer with a resistance value of 10KΩ. The middle lead - out terminal of the potentiometer is connected to the SV terminal, and the lead - out terminals on both sides are respectively connected to the VCC and COM terminals – Diagram 2.
- External Analog Signal Speed Regulation (DC0 - 5V): When it is necessary to switch to the external SV input to control the speed mode, the built - in potentiometer RV must be in the off state – Diagram 3.
- Speed Regulation Using Pulse Frequency/PWM: When SW4 is in the OFF state, it is frequency speed regulation; when SW4 is in the ON state, it is PWM speed regulation. The built - in potentiometer RV must be in the off state – Diagram 4.

Diagram 1



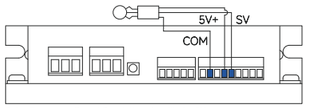
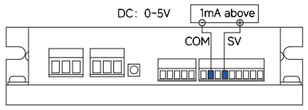


Diagram 2

Diagram 3



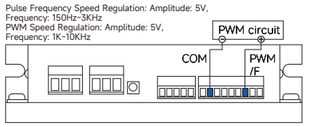


Diagram 4

内置式控制器

BLDH750W
AC220V

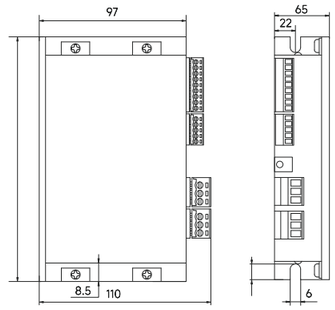
- 机箱内安装，节省空间
- 多种控制方式
- 加减速时间外置
- PLC上位机编程控制
- 485通讯控制



● 性能参数表

型号	BLDH750W
安装方式	内置式
电源电压	单相220V/单相110V
适配无刷调速电机功率	750W
调速范围	150~3000RPM
使用环境	-20℃~+55℃（无结露）
调速方式	内/外置电位器/模拟量/PWM/脉冲频率
控制功能	RS485协议控制

● 安装孔位尺寸（单位mm）



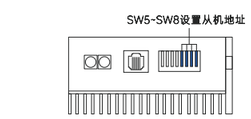
● 功能设定

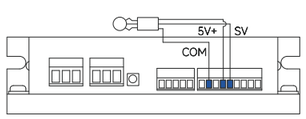
- 加、减速时间设定：通过电位器ACC/DEC设置电机的加速时间和减速时间。
- 电机极对数设定：为了更好地匹配不同极对数的直流无刷电机，可通过SW2,SW3设定电机的极对数。
- 启动与停止：EN端与COM端的出厂设定是将EN端与COM端相连启动，将EN端与COM端断开电机自由停止。
- 快速停止：BRK端与COM端的出厂设定是BRK端与COM端默认断开运行，将BRK端与COM端短接电机立即停止。
- 方向控制：F/R端和COM端的出厂设定是F/R端和COM端并未相连电机正转，F/R端和COM端相连电机反转。
- 输出信号：可进行速度信号输出与报警信号输出。

● 控制方式

- 内置电位器RV调速：顺时针旋转内置调速电位器 RV，电机开始运行。
- RS485调速：拨码开关中SW5~SW8的作用是设置从机地址，设置方式-图示1。详细设置请参考产品说明书。
- 外部电位器调速：请使用电阻值为10KΩ的适合电位器。电位器中间引出端连接SV端，两侧的引出端分别连接VCC、COM端-图示2。
- 外部模拟信号调速DC0-5V：当需要切换到外部SV输入控制转速模式时，内置电位器RV必须处于关闭状态-图示3。
- 使用脉冲频率/PWM调速：当SW4为OFF状态为频率调速，当SW4为ON状态为PWM调速，内置电位器RV必须处于关闭状态-图示4。

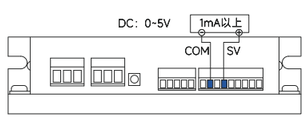
图示1

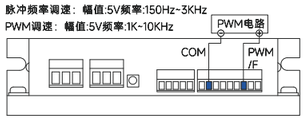




图示2

图示3





图示4

BLDC SPEED CONTROLLER

BLDH750W
AC220V

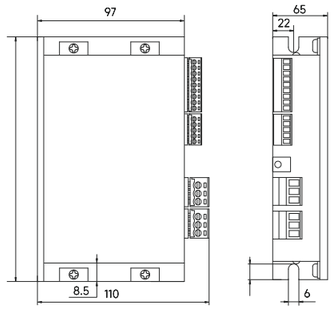
- Internal Chassis Installation for Space Saving
- Multiple Control Modes
- Externally Adjustable Acceleration/Deceleration Time
- PLC Host Computer Programming Control
- 485 Communication Control



● Performance Parameter Table

Model	BLDH750W
Installation Method	Built - in type
Power Supply Voltage	Single - phase 220V / Single - phase 110V
Power of Adapted Brushless Speed - Regulating Motor	750W
Speed - Regulating Range	150 - 3000RPM
Operating Environment	-20℃ - +55℃ (No condensation)
Source of Speed Signal	Internal / External potentiometer / Analog quantity / PWM / Pulse frequency
Speed - Regulating Method	RS485 protocol control

● Installation Hole Dimensions (Unit: mm)



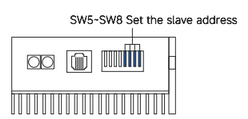
● Function Setting

- Acceleration and Deceleration Time Setting: Set the acceleration time and deceleration time of the motor via the potentiometers ACC/DEC.
- Motor Pole - pair Number Setting: To better match DC brushless motors with different pole - pair numbers, the pole - pair number of the motor can be set via SW2 and SW3.
- Start and Stop: The factory setting for the EN terminal and the COM terminal is that connecting the EN terminal and the COM terminal starts the motor, and disconnecting them allows the motor to stop freely.
- Rapid Stop: The factory setting for the BRK terminal and the COM terminal is that they are normally open during operation, and short - circuiting them stops the motor immediately.
- Direction Control: The factory setting for the F/R terminal and the COM terminal is that the motor rotates forward when they are not connected and reverses when they are connected.
- Output Signals: Capable of outputting speed signals and alarm signals.

● Control Modes

- Built - in Potentiometer RV Speed Regulation: Rotate the built - in speed regulation potentiometer RV clockwise, and the motor starts to run.
- RS485 Speed Regulation: The function of DIP switches SW5 - SW8 is to set the slave address. Setting method – Diagram 1. For detailed settings, please refer to the product instruction manual.
- External Potentiometer Speed Regulation: Please use a suitable potentiometer with a resistance value of 10KΩ. The middle lead - out terminal of the potentiometer is connected to the SV terminal, and the lead - out terminals on both sides are respectively connected to the VCC and COM terminals – Diagram 2.
- External Analog Signal Speed Regulation (DC0 - 5V): When it is necessary to switch to the external SV input to control the speed mode, the built - in potentiometer RV must be in the off state – Diagram 3.
- Speed Regulation Using Pulse Frequency/PWM: When SW4 is in the OFF state, it is frequency speed regulation; when SW4 is in the ON state, it is PWM speed regulation. The built - in potentiometer RV must be in the off state – Diagram 4.

Diagram 1



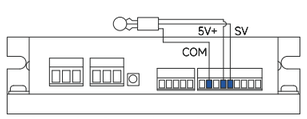
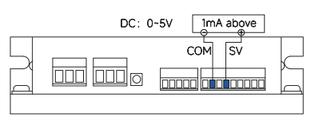


Diagram 2

Diagram 3



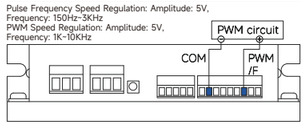


Diagram 4