

无刷直流电机系列 BLDC MOTOR



无刷直流电机由电动机主体和驱动器组成，是一种典型的机电一体化产品，其以体积小、噪音低、效率高、调速范围广、稳态转速误差小等特点，越来越被市场所推崇。中大电机致力于无刷直流电机+驱动器+齿轮减速器一整套的转动解决方案，产品目前已广泛应用于工业传动设备、纺织机械、医疗器械等领域，中大电机本着质量第一，信誉至上的原则，竭诚为您打造更合理的机电一体化产品解决方案！

Brushless DC motor (BLDC) is made up of motor and driver, which is a kind of typical product of mechanical and electrical integration. It is high regarded by market as its small volume, low noise, high efficiency, wide range of speed control and steady working state with less inaccuracy. ZD-motor factory applies itself to the complete set of transmission solutions including motor, gearbox and driver. And the product is widely used in transmission equipment, textile machinery and medical devices, etc. ZD-motor factory takes Quality and Reputation first as its principle, and it tries its best to make a more reasonable transmission program for all customers.

直流电机的一般规格 General specification of DC motor

项目 Items	
绝缘电阻 Insulation resistance	在常温、常湿度下，运转电机后，以DC500V电阻表测量线圈、外壳间时，测量值为20MΩ以上。 In the circumstance of normal ambient temperature and humidity, the resistance can be up to 20MΩ or more when 500VDC megger is applied between the windings and the frame after rated motor operations.
绝缘电压 Insulation voltage	在常温、常湿度下电动机额定运行后，在线圈、外壳间施加一分钟50Hz、1.5kV(三相400V为2kV)的电压，亦无异常。 In the circumstance of normal ambient temperature and humidity, there will be no problem to withstand 1.5kV (three phase 400v: 2kV) at 50hz between the windings and the frame for 1 minute after rated motor operation.
温度上升 Temperature rise	运转电机后，用电阻法来测量时，线圈绕组温度的上升数值在80℃以下。 The temperature rise should be lower than 80℃ measured by resistance method when the motor is working.
绝缘等级 Insulation class	B级(130℃) Class B (130℃)
使用温度 Using temperature	-10℃~+40℃(无冰冻) -10℃~+40℃(No freeze)
使用湿度 Using humidity	85%以下(没有结露的场所) ≤85% (Place without dew)

型号的阅读方法 PRODUCT CODE

无刷直流电动机 Brushless DC Motor

Z 5 BLD(P) 40 - 220 GN - 30S

① ② ③ ④ ⑤ ⑥

型号尺寸 (Model & Dimension)					
① 座机号 Code	2	3	4	5	6
电机安装法兰 Mounting Flange mm	□60	□70	□80	□90	□104
② 电机型式: Motor type	BLD: 无刷直流电机配方式减速器 BLD: brushless motor with square gearbox BLDP: 无刷直流电机配行星减速器 BLDP: motor matched with planetary gearbox				
③ 输出功率 Output Power	(例) 40: 40W				
④ 电源电压 Voltage	(例) 220: 220V				
⑤ 电机轴形状 Shape of Motor Shaft	GN: 普通型斜齿轴 GN: General Helival Gear		A1: 铣键槽 A1: Milling Keyway		
	GU: 加强型斜齿轴 GN: Reinforced Helival Gear		A: 铣扁 A: Flat type		
⑥ 电机转速 Motor Speed	(例) 30S: 3000RPM				

●如果电机需配刹车器可在型号最后增加-M符号，如Z4BLD40-220GN-30S-M，刹车器电压与电机额定电压相同；型号中电机可解读为方型80mm、GN型、额定电压220VAC、额定功率40W、额定转速3000RPM、配220VAC刹车器。
●Note: we use M to symbolise the brake, such as Z4BLD25-220GN-30S-M, the brake voltage is the same as the rated voltage of the motor; Type of motor can be interpreted as a case diameter of 80mm, GN type, rated voltage 220VAC, rated power 25W, rated speed of 3000RPM, with brake-220VAC.

减速器 Gearbox

5 GN 50 K

① ② ③ ④

① 型号尺寸 Model & Dimension	2: 60mm、3: 70mm、4: 80mm、5: 90mm、6: 104mm		
② 齿轮种类 Gear Type	GN: 普通型斜齿轴 GU: 加强型斜齿轴	GN: Common Helical Gear GU: Reinforced Helical Gear	
③ 减速比 Reduction Ratio	50: 减速比为1: 50 10X仅限减速比1: 10的中间减速比	50: Reduction Ratio 1: 50 10X denotes the mid-gearbox ratio 1:10	
④ 轴承种类 Bearing Type	K: 滚珠轴承(对GU型方箱体标注为KB) K: Ball Bearing (Mark KB for Type GU square case)		

●注: 非标准分体式的编号为: 在电动机号或减速器型号前加"V" (请在定货时写明具体参数)
●Note: The code of the non-standard split type is to add "V" before the model number of the motor or reducer (Please specify the detailed parameter requirement in the purchase order)

控制器 Controller

Z BLD·CON - 220 A 10 - V1

① ② ③ ④ ⑤

		⑤ V1: 驱动器特性 Feature of driver
① BLD.CON: 无刷直流驱动器 BLDC driver	注Note:	V1: 驱动器具有一般过压、欠压、过流保护功能，具有软启动、调速、正反转使用功能。V2: 驱动器增加其它功能 V1: Generally, driver has function of over voltage, under voltage and current protection. It can start softly, adjust speed and run in both CW and CCW. V2: Other functions.
② 电压: 220V Vol		
③ A: AC 无A时: DC DC: Without A		
④ 功率: 10W Power		

●说明: 如ZBLD.CON-48200表示中大电机生产的、48VDC、200W无刷直流驱动器 2、此驱动器表示型号适用于光轴和齿轴电机
●For example ZBLD.CON-48200 means driver of 48V.200W. 2. This driver can be used for round shaft and gear shaft motor.