外径42mm闭环内置无刷电机

42mm CLOSED-LOOP BRUSHLESS DC MOTOR WITH INTEGRATED DRIVER

ZZMOTOR

电气性能
ELECTRICAL PERFORMANCE

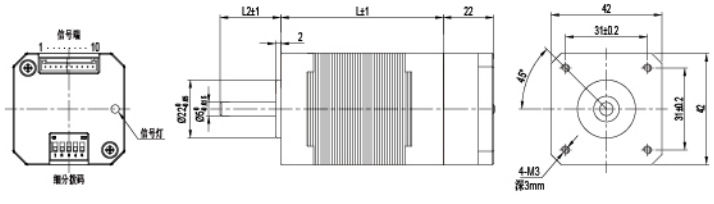
● 绕组连接方式 Winding Type	星形Star
● 霍尔电位角度 Hall Effect angle	120°
● 绝缘等级 Insulation Class	Class B
● 工作环境温度 Ambient Temperature Range	-20°C~+50°C
● 绝缘电阻 Insulation Resistance	100MΩMin 500VDC
● 介电强度 Dielectric Strength	700V AC 1 minute

技术数据
ELECTRICAL SPECIFICATIONS

型号 Model	42BLFI40-240	42BLFI60-240
极数 Number of Poles	8	
相数 Number of Phases	3	
额定电压 Nominal voltage VDC	24	24
额定转速 Rated speed RPM	4000 (±10%)	
额定扭矩 Rated Torque N-m	0.0625	0.13
额定电流 Rated Current Amps	1.9	3.1
输出功率 Output Power Watts	26	54
峰值扭矩 Peak Torque N-m	0.18	0.39
峰值电流 Peak Current Amps	5.7	9.3
力矩常数 Torque constant N-m/A	0.033	0.042
反电势常数 Back EMF Vrms/k RPM	3.79	3.22
转动惯量 Rotor inertia $g \cdot cm^2$	66	116
电机长度 Body Length (L) mm	40	60
重量 Mass kg	0.4	0.65

支持定制：电压，转速，轴尺寸，引线长度，安装止口，安装孔等。
Support customization: Voltage, Speed, Shaft size, Lead wire length, Mounting spigot, Mounting holes, etc.

电机机械尺寸
DIMENSIONS UNIT=MM



电机接线图
WIRING DIAGRAM

引脚	1	2	3	4	5	6	7	8	9	10
功能（脉冲款）	VCC	GND	PUL+	PUL-	DIR+	DIR-	ENA+	ENA-	ALM+	ALM-
功能（总线款）	VCC	GND	X0+	X0-	X1+	X1-	485A	485B	CANH	CANL

我们可以根据客户要求定制电机的电气参数、电机输出轴尺寸等形状，也可以增配行星减速箱、编码器等，查看更多产品信息请浏览公司网站：www.zz-motor.com
We can customize the motor's electrical parameters, output shaft dimensions, and other shapes according to customer requirements. We can also add planetary gearboxes, encoders, and other accessories. For more product information, please visit our company website:en.zz-motor.com

外径57mm闭环内置无刷电机

42mm CLOSED-LOOP BRUSHLESS DC MOTOR WITH INTEGRATED DRIVER

ZZMOTOR

电气性能
ELECTRICAL PERFORMANCE

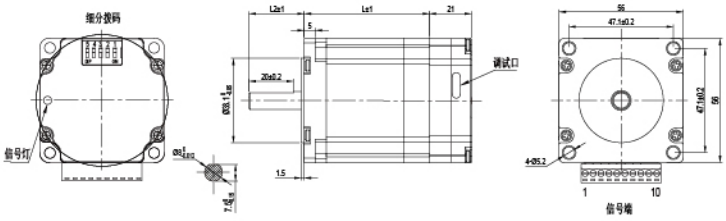
● 绕组连接方式 Winding Type	星形Star
● 霍尔电位角度 Hall Effect angle	120°
● 绝缘等级 Insulation Class	Class B
● 工作环境温度 Ambient Temperature Range	-20°C~+50°C
● 绝缘电阻 Insulation Resistance	100MΩMin 500VDC
● 介电强度 Dielectric Strength	700V AC 1 minute

技术数据
ELECTRICAL SPECIFICATIONS

型号 Model	57BLFI60-230	57BLFI80-230
极数 Number of Poles	8	
相数 Number of Phases	3	
额定电压 Nominal voltage VDC	24	24
额定转速 Rated speed RPM	3000 (±10%)	
额定扭矩 Rated Torque N-m	0.2	0.4
额定电流 Rated Current Amps	3.9	7.5
输出功率 Output Power Watts	62	125
峰值扭矩 Peak Torque N-m	0.6	1.2
峰值电流 Peak Current Amps	11.7	22.5
力矩常数 Torque constant N-m/A	0.051	0.053
反电势常数 Back EMF Vrms/k RPM	4.36	4.08
转动惯量 Rotor inertia $g \cdot cm^2$	184	331
电机长度 Body Length (L) mm	61	82.5
重量 Mass kg	0.75	1.05

支持定制：电压，转速，轴尺寸，引线长度，安装止口，安装孔等。
Support customization: Voltage, Speed, Shaft size, Lead wire length, Mounting spigot, Mounting holes, etc.

电机机械尺寸
DIMENSIONS UNIT=MM



电机接线图
WIRING DIAGRAM

引脚	1	2	3	4	5	6	7	8	9	10
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