外径42mm闭环内置驱动精密行星无刷减速电机

42mm CLOSED-LOOP BRUSHLESS DC MOTOR WITH INTEGRATED DRIVER & PRECISION PLANETARY GEARBOX

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

精密行星减速机常规参数 PRECISION PLANETARY GEARBOX CONVENTIONAL PARAMETERS

● 齿轮材料 Gear material	金属 Metal
● 径向负荷10mm处 Radial load	≤300N
● 轴向负载 Shaft axial load	≤100N
● 回程间隙 Backlash	≤15arcmin 1级 ≤20arcmin 2级
● 噪音 Noise	≤55dB
● 防护等级 Protection Level	IP54
● 使用寿命 Life Span	20000H
● 工作环境温度 Working Temp	-20°C ~ +150°C

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

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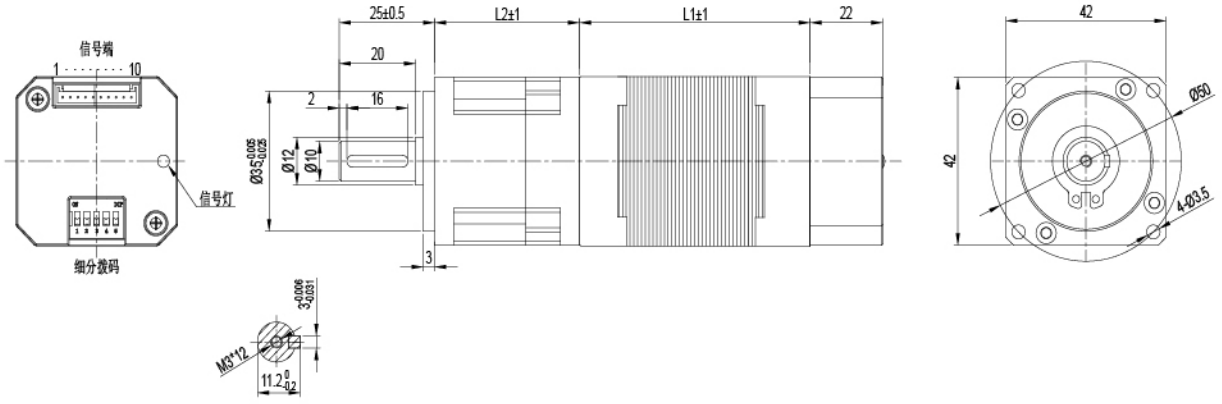
HPS42-L1/L2 精密行星减速机技术参数

PRECISION PLANETARY GEARBOX ELECTRICAL SPECIFICATIONS

减速级数 Number of gear trains		1级				2级								
减速比 Reduction ratio		4	5	7	10	16	20	25	28	35	40	50	70	100
减速机长度（L1）Reducer length（L1）	mm	51				62								
额定输出扭矩 Rated output torque	N.m	9	9	5	5	12	12	10	10	10	10	10	10	5
最大容许扭矩 Torque moment	N.m	2倍额定输出扭矩												
传动效率 Transmission efficiency	%	96				94								
重量 weight	g	300				380								

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

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57mm CLOSED-LOOP BRUSHLESS DC MOTOR WITH INTEGRATED DRIVER & PRECISION PLANETARY GEARBOX

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

精密行星减速机常规参数 PRECISION PLANETARY GEARBOX CONVENTIONAL PARAMETERS

● 齿轮材料 Gear material	金属 Metal
● 径向负荷10mm处 Radial load	≤400N
● 轴向负载 Shaft axial load	≤230N
● 回程间隙 Backlash	≤15arcmin 1级 ≤20arcmin 2级
● 噪音 Noise	≤55dB
● 防护等级 Protection Level	IP54
● 使用寿命 Life Span	20000H
● 工作环境温度 Working Temp	-20°C ~ +150°C

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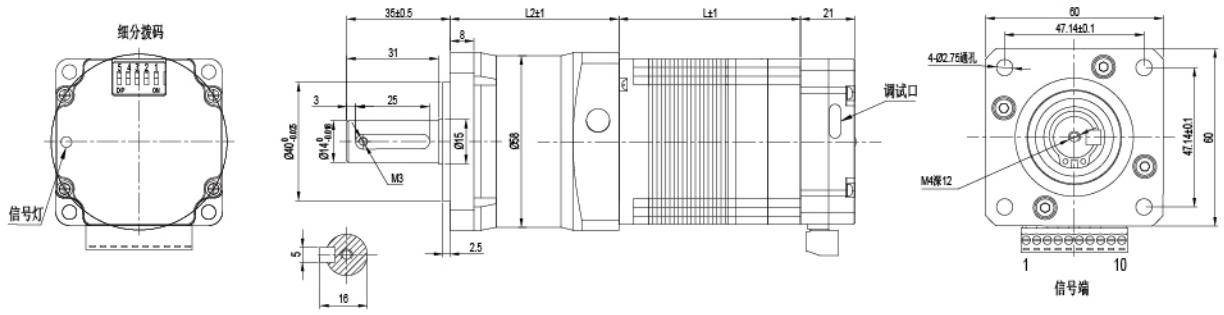
HPS60-L1/L2精密行星减速机技术参数

PRECISION PLANETARY GEARBOX ELECTRICAL SPECIFICATIONS

减速级数 Number of gear trains		1级					2级									
减速比 Reduction ratio		3	4	5	7	10	16	20	25	28	30	35	40	50	70	100
减速机长度（L1）Reducer length（L1）	mm	51					73									
额定输出扭矩 Rated output torque	N.m	16	25	28	20	10	30	30	32	30	16	30	25	25	20	10
最大容许扭矩 Torque moment	N.m	2倍额定输出扭矩														
传动效率 Transmission efficiency	%	57					94									
重量 weight	g	750					960									

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

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