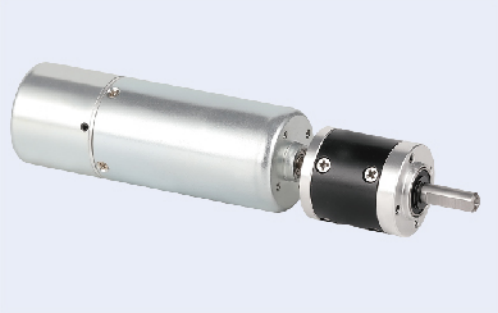
外径32mm直流无刷内置驱动行星减速电机

32mm BRUSHLESS DC MOTOR WITH BUILT-IN DRIVER & 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	32BLYI65-238
极数 Number of Poles	4
相数 Number of Phases	3
额定电压 Nominal voltage VDC	24
额定转速 Rated speed RPM	3800（±10%）
额定扭矩 Rated Torque N-m	0.04
额定电流 Rated Current Amps	1.5
输出功率 Output Power Watts	16
峰值扭矩 Peak Torque N-m	0.12
峰值电流 Peak Current Amps	4.5
力矩常数 Torque constant N-m/A	0.027
反电势常数 Back EMF Vrms/k RPM	3
转动惯量 Rotor inertia $g \cdot cm^2$	17.6
电机长度 Body Length (L) mm	65
重量 Mass kg	0.3

行星减速机常规参数
PLANET GEAR CONVENTIONAL PARAMETERS

● 齿轮材料 Gear material	金属 Metal 粉末冶金 Powder metal	可选 Optional
● 径向负荷10mm处 Radial load	≤3.5kgf	
● 轴向负载 Shaft axial load	≤2.5kgf	
● 径向间隙 Radial play of shaft	≤0.05mm	
● 轴向间隙 Thrust play of shaft	≤0.3mm	
● 回差（一级，无负荷时）Backlash at（1-stage，no load）	≤3°	
● 输出轴最大承受压入力（Shaft press fit force max）	≤100N	

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

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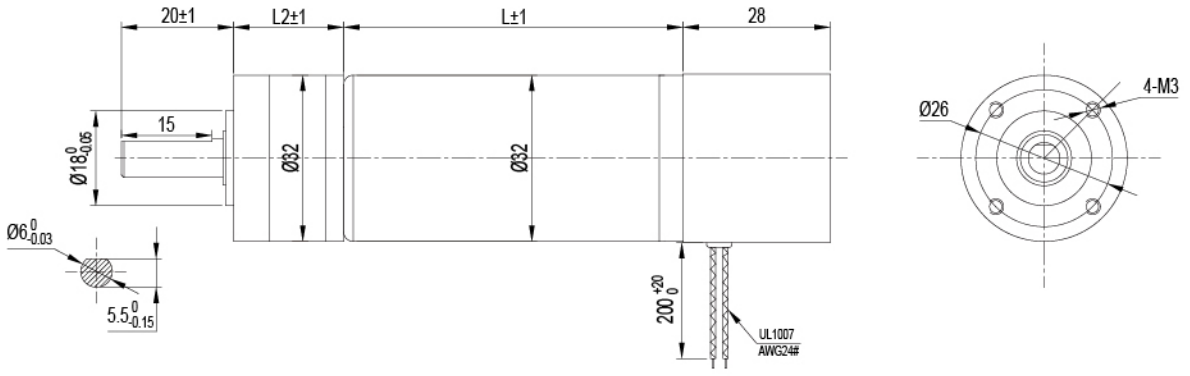
M32GXR 行星减速机技术参数

PLANET GEAR ELECTRICAL SPECIFICATIONS

减速级数 Number of gear trains		1级	2级	3级	4级
减速比 Reduction ratio		3.7, 5.2	14，19, 27	51, 71, 100, 139	189, 264, 369, 516, 720
减速机长度（L2）Reducer length（L2）	mm	31	40.1	49	57.9
额定输出扭矩 Rated output torque	Kg.cm	3.0	10.0	20.0	25.0
最大容许扭矩 Torque moment	Kg.cm	10.0	30.0	60.0	75.0
传动效率 Transmission efficiency	%	80	70	60	50
重量 weight	g	140	170	200	230

电机机械尺寸

DIMENSIONS UNIT=MM



电机接线图

WIRING DIAGRAM

FUNCTION	+24V	-GND	F/R
COLOUR	RED	BLACK	WHITE
颜色	红	黑	白

外径57mm直流无刷内置驱动行星减速电机

57mm BRUSHLESS DC MOTOR WITH BUILT-IN DRIVER & 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	57BLYI45-230	57BLYI55-230	57BLYI75-230	57BLYI95-230
极数 Number of Poles	4			
相数 Number of Phases	3			
额定电压 Nominal voltage VDC	24	24	24	24
额定转速 Rated speed RPM	3000 (±10%)			
额定扭矩 Rated Torque N-m	0.055	0.11	0.22	0.33
额定电流 Rated Current Amps	1.2	2.2	4.1	5.9
输出功率 Output Power Watts	17	35	70	105
峰值扭矩 Peak Torque N-m	0.165	0.33	0.66	0.99
峰值电流 Peak Current Amps	3.6	6.6	12.3	17.7
力矩常数 Torque constant N-m/A	0.046	0.05	0.054	0.056
反电势常数 Back EMF Vrms/k RPM	4.28	3.91	4.13	4.16
转动惯量 Rotor inertia $g \cdot cm^2$	68	84	145	209
电机长度 Body Length (L) mm	45	55	75	95
重量 Mass kg	0.5	0.6	0.8	1.1

行星减速机常规参数
PLANET GEAR CONVENTIONAL PARAMETERS

● 齿轮材料 Gear material	金属 Metal 粉末冶金 Powder metal	可选 Optional
● 径向负荷10mm处 Radial load	≤20.0kgf	
● 轴向负载 Shaft axial load	≤12.0kgf	
● 径向间隙 Radial play of shaft	≤0.05mm	
● 轴向间隙 Thrust play of shaft	≤0.3mm	
● 回差（一级，无负荷时）Backlash at (1-stage, no load)	≤3°	
● 输出轴最大承受压入力（Shaft press fit force max)	≤320N	

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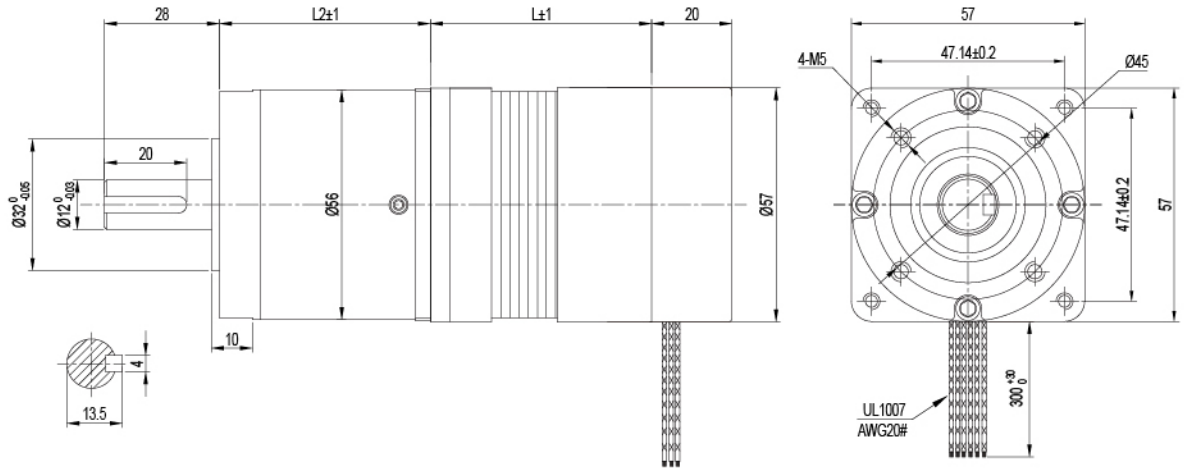
57mm BRUSHLESS DC MOTOR WITH BUILT-IN DRIVER & PLANETARY GEARBOX

ZZMOTOR

M56GXR 行星减速机技术参数
PLANET GEAR ELECTRICAL SPECIFICATIONS

减速级数 Number of gear trains		1级	2级	3级	4级
减速比 Reduction ratio		3.6, 4.3	13, 15, 18	47, 55, 65, 77	168, 198, 234, 276, 326
减速机长度（L2）Reducer length（L2）	mm	40.5	51.8	63.1	74.4
额定输出扭矩 Rated output torque	N.m	2.0	8.0	16.0	20.0
最大容许扭矩 Torque moment	N.m	6.0	25.0	50.0	60.0
传动效率 Transmission efficiency	%	80	70	60	50
重量 weight	g	500	600	700	850

电机机械尺寸
DIMENSIONS UNIT=MM



电机接线图
WIRING DIAGRAM

FUNCTION	+24V	-GND	BK	FG	PWM	CW/CCW
COLOUR	RED	BLACK	WHITE	YELLOW	BLUE	BROWN
颜色	红	黑	白	黄	蓝	棕

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