外径42mm直流无刷行星减速电机

42mm BRUSHLESS DC MOTOR WITH 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	42BLF40-240	42BLF60-240	42BLF80-240	42BLF100-240
极数 Number of Poles	8			
相数 Number of Phases	3			
额定电压 Nominal voltage VDC	24	24	24	24
额定转速 Rated speed RPM	4000 (±10%)			
额定扭矩 Rated Torque N-m	0.0625	0.13	0.188	0.25
额定电流 Rated Current Amps	1.9	3.1	4.5	6.2
输出功率 Output Power Watts	26	54	78	104
峰值扭矩 Peak Torque N-m	0.18	0.39	0.55	0.75
峰值电流 Peak Current Amps	5.7	9.3	13.5	18.6
力矩常数 Torque constant N-m/A	0.0329	0.042	0.042	0.040
反电势常数 Back EMF Vrms/k RPM	3.79	3.22	3.92	3.9
转动惯量 Rotor inertia $g \cdot cm^2$	66	116	164	217
电机长度 Body Length (L) mm	40	60	80	100
重量 Mass kg	0.27	0.5	0.65	0.85

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	≤15.0kgf	
● 轴向负载 Shaft axial load	≤8.0kgf	
● 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)	≤250N	

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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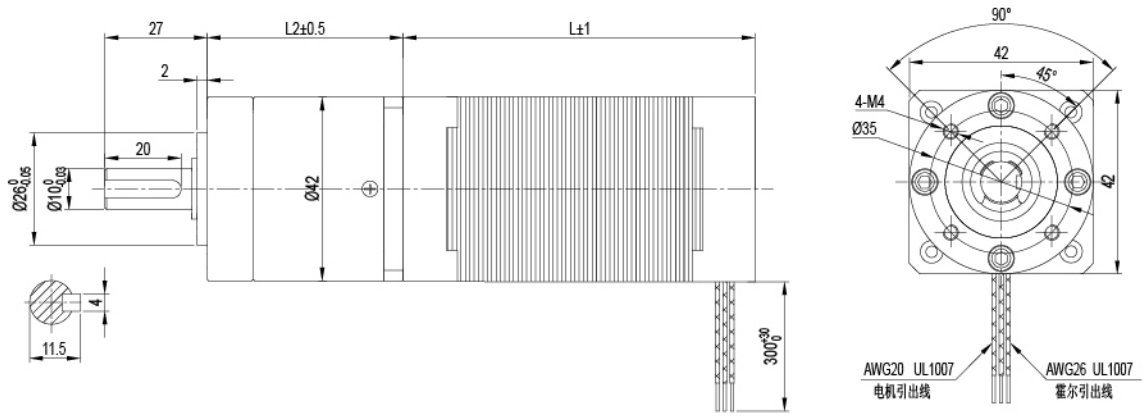
M42GXR 行星减速机技术参数

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	41.3	51.6	64.4	74.7
额定输出扭矩 Rated output torque	Kg.cm	5.0	20.0	40.0	50.0
最大容许扭矩 Torque moment	Kg.cm	15.0	60.0	120.0	150.0
传动效率 Transmission efficiency	%	80	70	60	50
重量 weight	g	220	300	360	420

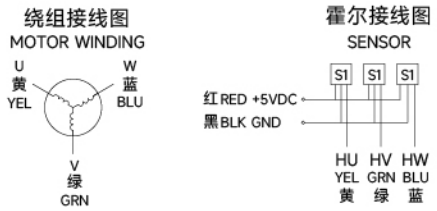
电机机械尺寸

DIMENSIONS UNIT=MM



电机接线图

WIRING DIAGRAM



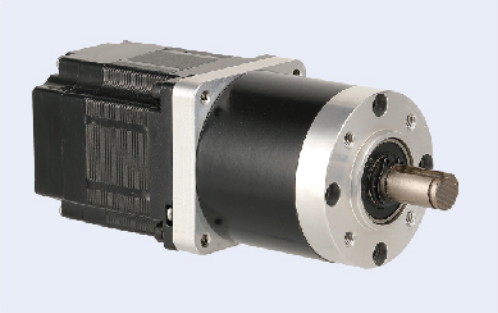
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电气性能
ELECTRICAL PERFORMANCE

● 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	57BLF60-230	57BLF80-230	57BLF101-230	57BLF122-430
极数 Number of Poles	8			
相数 Number of Phases	3			
额定电压 Nominal voltage VDC	24	24	24	48
额定转速 Rated speed RPM	3000 (±10%)			
额定扭矩 Rated Torque N-m	0.2	0.4	0.6	0.8
额定电流 Rated Current Amps	3.9	7.5	11.5	6.6
输出功率 Output Power Watts	62	125	188	250
峰值扭矩 Peak Torque N-m	0.6	1.2	1.8	2.4
峰值电流 Peak Current Amps	11.7	22.5	34.5	19.8
力矩常数 Torque constant N-m/A	0.051	0.053	0.052	0.121
反电势常数 Back EMF Vrms/k RPM	4.36	4.08	4.71	9.04
转动惯量 Rotor inertia $g \cdot cm^2$	184	331	468	602
电机长度 Body Length (L) mm	61	80	101	122
重量 Mass kg	0.6	0.92	1.23	1.6

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 PLANETARY GEARBOX

ZZMOTOR

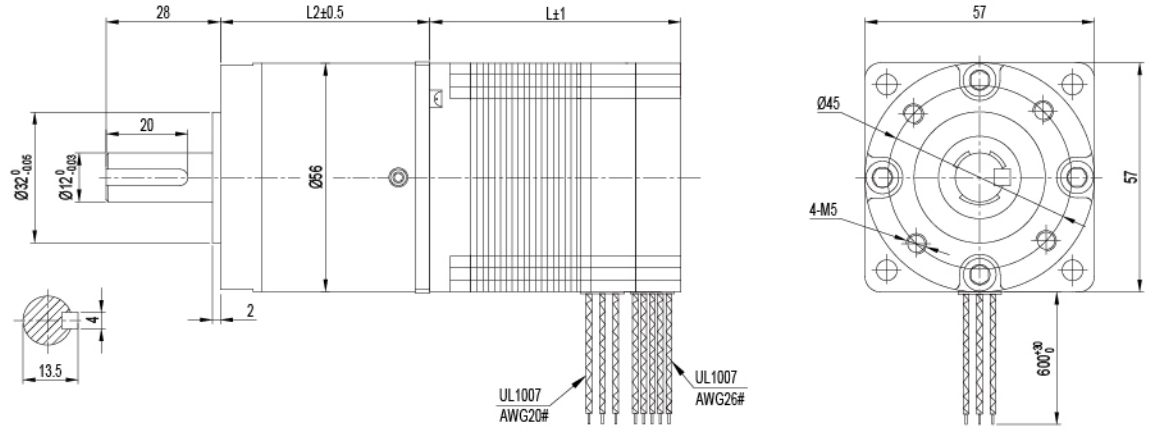
M56GXR 行星减速机技术参数

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

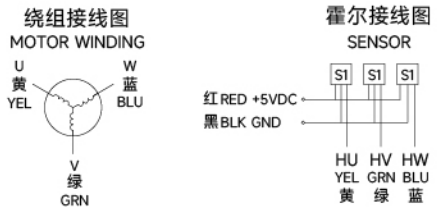
电机机械尺寸

DIMENSIONS UNIT=MM



电机接线图

WIRING DIAGRAM



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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	57BLY45-230	57BLY55-230	57BLY75-230	57BLY95-230	57BLY115-230
极数 Number of Poles	4				
相数 Number of Phases	3				
额定电压 Nominal voltage VDC	24	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	0.45
额定电流 Rated Current Amps	1.2	2.2	4.1	5.9	7.7
输出功率 Output Power Watts	17	35	70	105	140
峰值扭矩 Peak Torque N-m	0.165	0.33	0.66	0.99	1.35
峰值电流 Peak Current Amps	3.6	6.6	12.3	17.7	23.1
力矩常数 Torque constant N-m/A	0.046	0.05	0.054	0.056	0.058
反电势常数 Back EMF Vrms/k RPM	4.28	3.91	4.13	4.16	4.68
转动惯量 Rotor inertia $g \cdot cm^2$	68	84	145	209	268
电机长度 Body Length (L) mm	45	55	75	95	115
重量 Mass kg	0.4	0.5	0.72	1.0	1.24

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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ZZMOTOR

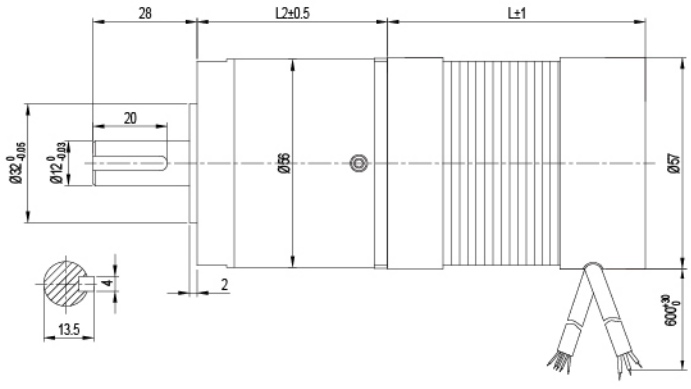
M56GXR 行星减速机技术参数

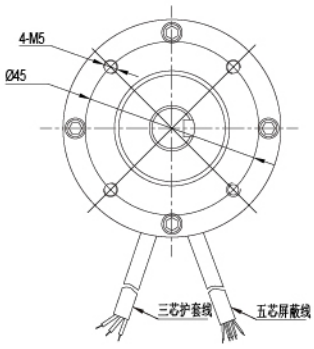
PLANET GEAR ELECTRICAL SPECIFICATIONS

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

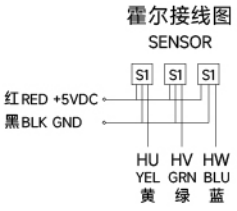




电机接线图

WIRING DIAGRAM





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外径60mm直流无刷行星减速电机

60mm BRUSHLESS DC MOTOR WITH 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	60BLFA78-430	60BLFA99-430	60BLFA120-430	60BLFA141-430
极数 Number of Poles	8			
相数 Number of Phases	3			
额定电压 Nominal voltage VDC	48	48	48	48
额定转速 Rated speed RPM	3000 (±10%)			
额定扭矩 Rated Torque N-m	0.32	0.65	0.95	1.28
额定电流 Rated Current Amps	3.2	5.3	8.3	11.5
输出功率 Output Power Watts	100	200	300	400
峰值扭矩 Peak Torque N-m	0.96	1.95	2.85	3.84
峰值电流 Peak Current Amps	9.6	15.9	24.9	34.5
力矩常数 Torque constant N-m/A	0.1	0.123	0.114	0.111
反电势常数 Back EMF Vrms/k RPM	8.01	8.79	8.75	8.88
转动惯量 Rotor inertia kg·cm²	0.31	0.58	0.79	1.01
电机长度 Body Length (L) mm	78	99	120	141
重量 Mass kg	0.85	1.25	1.7	2.1

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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60mm BRUSHLESS DC MOTOR WITH PLANETARY GEARBOX

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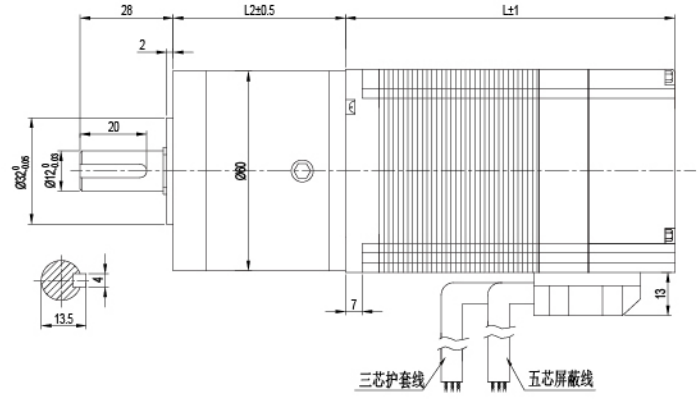
M60GXR 行星减速机技术参数

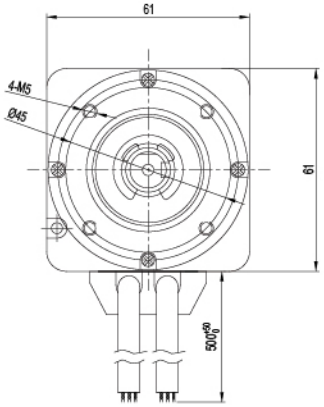
PLANET GEAR ELECTRICAL SPECIFICATIONS

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

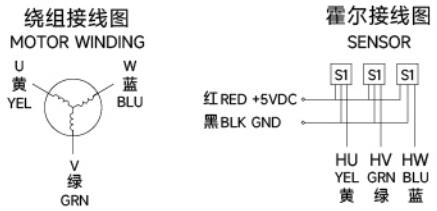
DIMENSIONS UNIT=MM





电机接线图

WIRING DIAGRAM



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