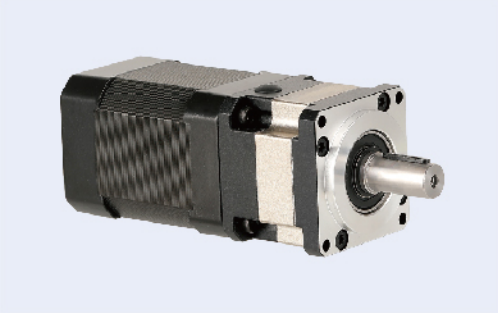
外径42mm精密型直流无刷行星减速电机

42mm BRUSHLESS DC MOTOR WITH 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	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	0.033	0.042	0.042	0.04
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

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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外径42mm精密型直流无刷行星减速电机

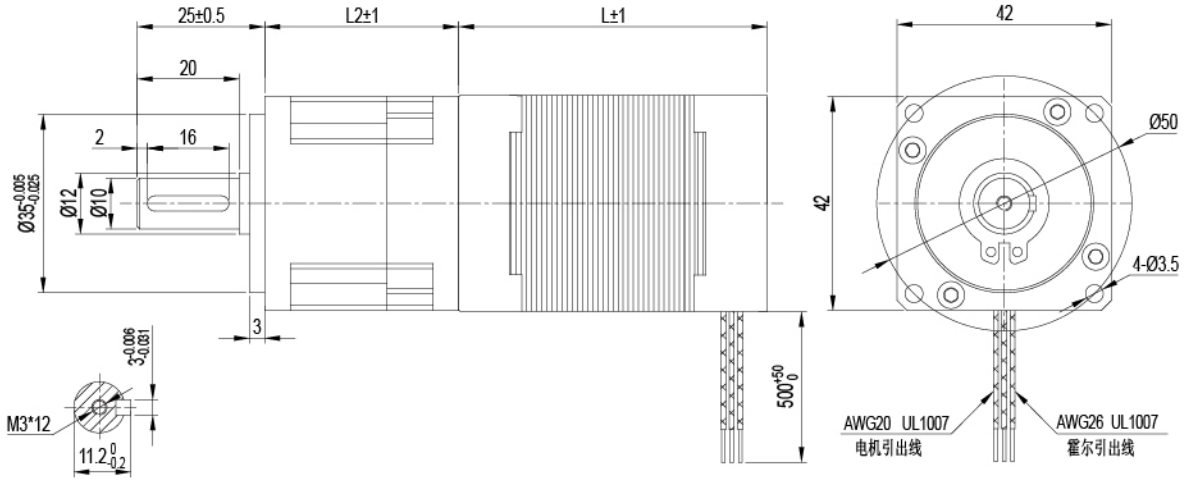
42mm BRUSHLESS DC MOTOR WITH PRECISION PLANETARY GEARBOX

ZZMOTOR

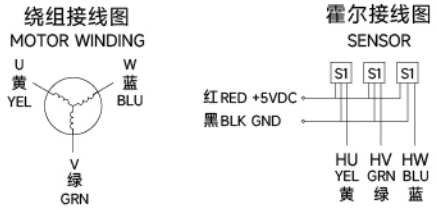
HPS42-L1/L2精密行星减速机技术参数
PRECISION PLANETARY GEARBOX ELECTRICAL SPECIFICATIONS

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（L2）Reducer length（L2）	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



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外径57mm精密型直流无刷行星减速电机

57mm BRUSHLESS DC MOTOR WITH 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	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

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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外径57mm精密型直流无刷行星减速电机

57mm BRUSHLESS DC MOTOR WITH PRECISION PLANETARY GEARBOX

ZZMOTOR

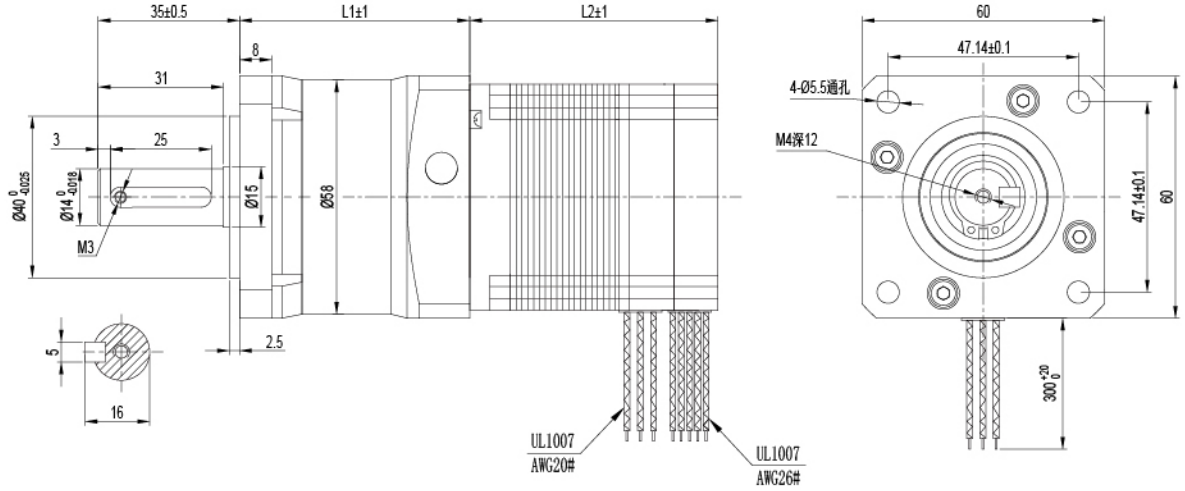
HPS60-L1/L2精密行星减速机技术参数

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（L2）Reducer length（L2）	mm	57					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	%	96					94									
重量 weight	g	750					960									

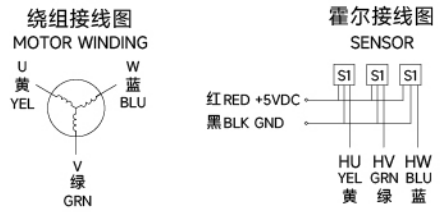
电机机械尺寸

DIMENSIONS UNIT=MM



电机接线图

WIRING DIAGRAM



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外径57mm精密型直流无刷行星减速电机

57mm BRUSHLESS DC MOTOR WITH 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	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

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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外径57mm精密型直流无刷行星减速电机

57mm BRUSHLESS DC MOTOR WITH PRECISION PLANETARY GEARBOX

ZZMOTOR

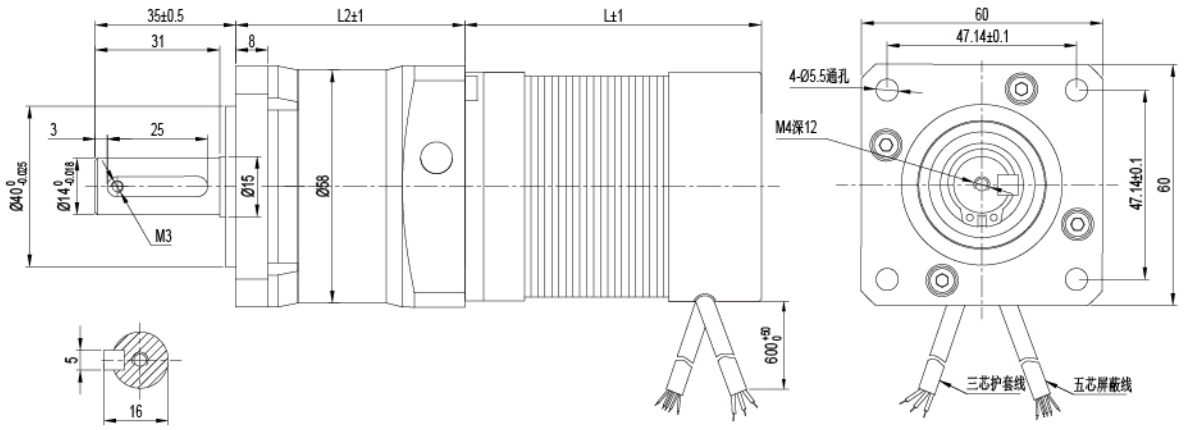
HPS60-L1/L2精密行星减速机技术参数

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（L2）Reducer length（L2）	mm	57					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	%	96					94									
重量 weight	g	750					960									

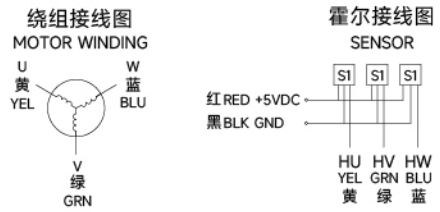
电机机械尺寸

DIMENSIONS UNIT=MM



电机接线图

WIRING DIAGRAM



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外径60mm精密型直流无刷行星减速电机

60mm BRUSHLESS DC MOTOR WITH 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	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 $kg \cdot cm^2$	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

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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外径60mm精密型直流无刷行星减速电机

60mm BRUSHLESS DC MOTOR WITH PRECISION PLANETARY GEARBOX

ZZMOTOR

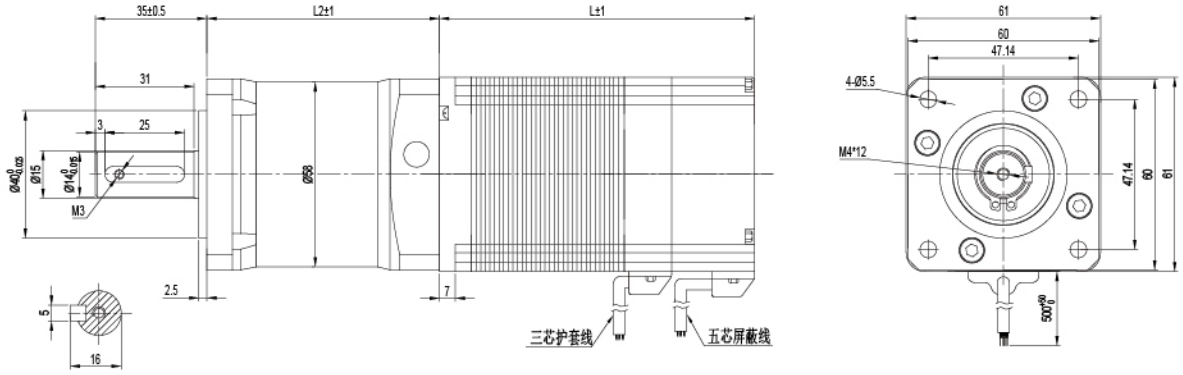
HPS60-L1/L2精密行星减速机技术参数

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（L2）Reducer length（L2）	mm	57					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	%	96					94									
重量 weight	g	750					960									

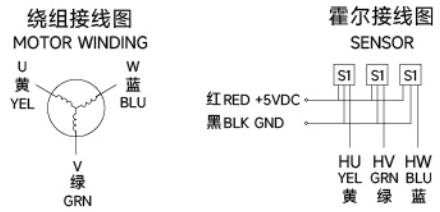
电机机械尺寸

DIMENSIONS UNIT=MM



电机接线图

WIRING DIAGRAM



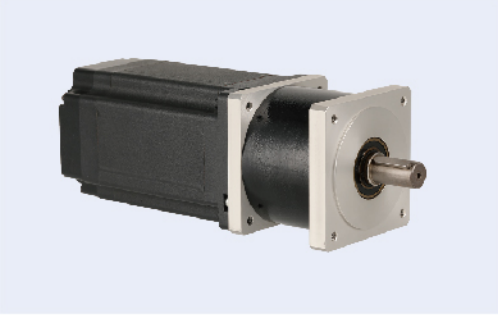
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外径86mm精密型直流无刷行星减速电机

86mm BRUSHLESS DC MOTOR WITH 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	86BLF75-430	86BLF90-430	86BLF105-430	86BLF115-430	86BLF145-430
极数 Number of Poles	8				
相数 Number of Phases	3				
额定电压 Nominal voltage VDC	48	48	48	48	48
额定转速 Rated speed RPM	3000 (±10%)				
额定扭矩 Rated Torque N-m	0.41	0.8	1.3	1.7	2.4
额定电流 Rated Current Amps	3.7	6.8	11.3	14.5	19
输出功率 Output Power Watts	130	250	400	500	750
峰值扭矩 Peak Torque N-m	1.23	2.4	3.9	5.1	7.2
峰值电流 Peak Current Amps	11.1	20.4	33.9	43.5	57
力矩常数 Torque constant N-m/A	0.111	0.117	0.115	0.117	0.126
反电势常数 Back EMF Vrms/k RPM	8.38	9.58	9.66	9.53	8.49
转动惯量 Rotor inertia $g \cdot cm^2$	0.81	1.27	1.71	2.14	3.04
电机长度 Body Length (L) mm	75	90	105	115	145
重量 Mass kg	1.5	2.0	2.5	3	4

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	≤1000N
● 轴向负载 Shaft axial load	≤800N
● 回程间隙 Backlash	≤10arcmin 1级 ≤15arcmin 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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外径86mm精密型直流无刷行星减速电机

86mm BRUSHLESS DC MOTOR WITH PRECISION PLANETARY GEARBOX

ZZMOTOR

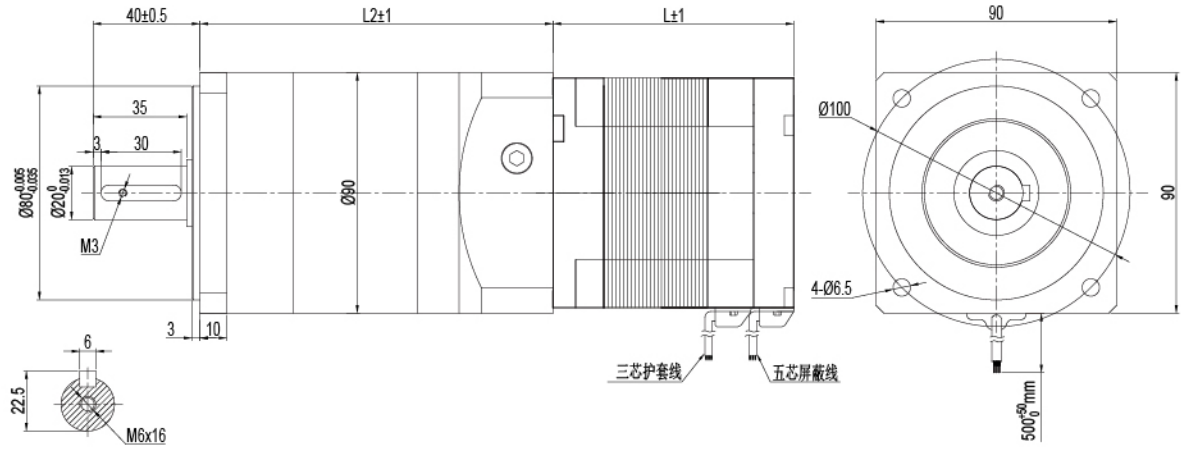
HPS90-L1/L2MB精密行星减速机技术参数

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	35	40	50	70
减速机长度（L2）Reducer length（L2）	mm	110					132							
额定输出扭矩 Rated output torque	N·m	60	80	90	60	39	90	90	100	90	100	90	100	70
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	kg	2.9					3.7							

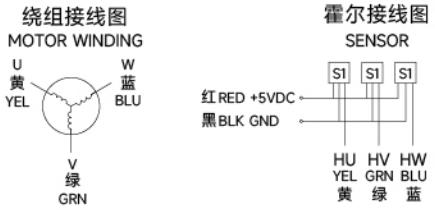
电机机械尺寸

DIMENSIONS UNIT=MM



电机接线图

WIRING DIAGRAM



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86mm BRUSHLESS DC MOTOR WITH 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	86BLW70-430	86BLW80-430	86BLW105-430	86BLW115-430	86BLW130-430
极数 Number of Poles			8		
相数 Number of Phases			3		
额定电压 Nominal voltage VDC	48	48	48	48	48
额定转速 Rated speed RPM			3000 (±10%)		
额定扭矩 Rated Torque N-m	0.7	1.0	1.8	2.1	2.5
额定电流 Rated Current Amps	6	7.8	14.5	17	19
输出功率 Output Power Watts	220	314	565	659	785
峰值扭矩 Peak Torque N-m	2.1	3	5.4	6.3	7.5
峰值电流 Peak Current Amps	18	23.4	43.5	51	57
力矩常数 Torque constant N-m/A	0.117	0.128	0.124	0.124	0.132
反电势常数 Back EMF Vrms/k RPM	9.4	11.7	10.5	10.5	10.7
转动惯量 Rotor inertia $g \cdot cm^2$	0.77	1.13	1.9	2.12	2.54
电机长度 Body Length (L) mm	70	80	105	115	130
重量 Mass kg	1.5	2	3	3.5	4.1

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	≤1000N
● 轴向负载 Shaft axial load	≤800N
● 回程间隙 Backlash	≤10arcmin 1级 ≤15arcmin 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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外径86mm精密型直流无刷行星减速电机

86mm BRUSHLESS DC MOTOR WITH PRECISION PLANETARY GEARBOX

ZZMOTOR

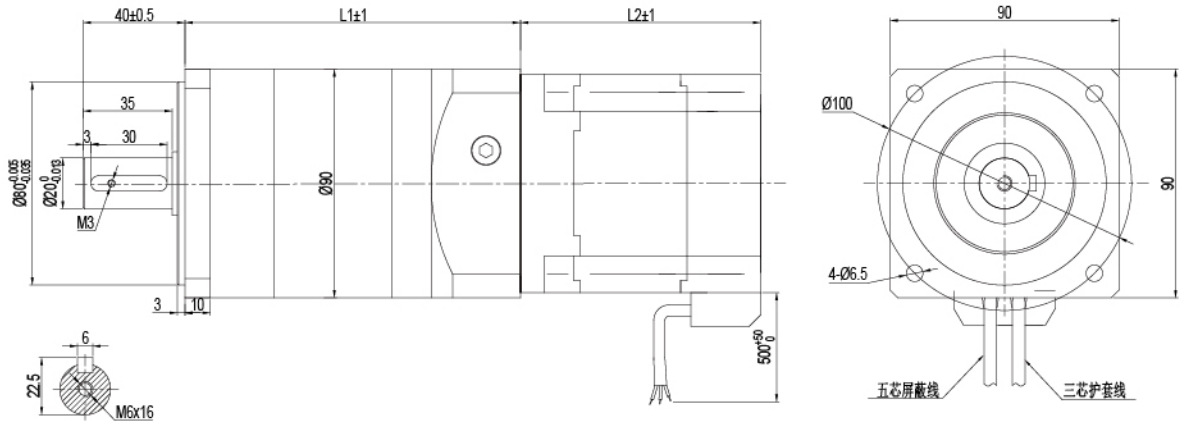
HPS90-L1/L2MB精密行星减速机技术参数

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	35	40	50	70
减速机长度（L2）Reducer length（L2）	mm	110					132							
额定输出扭矩 Rated output torque	N·m	60	80	90	60	39	90	90	100	90	100	90	100	70
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	kg	2.9					3.7							

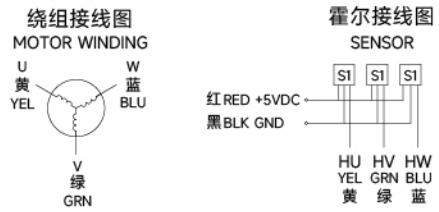
电机机械尺寸

DIMENSIONS UNIT=MM



电机接线图

WIRING DIAGRAM



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外径110mm精密型直流无刷行星减速电机

110mm BRUSHLESS DC MOTOR WITH PRECISION PLANETARY GEARBOX

ZZMOTOR

电气性能
ELECTRICAL PERFORMANCE

● 绕组连接方式 Winding Type	三角形 Triangle
● 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	110BLF110-630	110BLF140-630	110BLF170-630	110BLF230-630
极数 Number of Poles	8			
相数 Number of Phases	3			
额定电压 Nominal voltage VDC	310	310	310	310
额定转速 Rated speed RPM	3000 (±10%)			
额定扭矩 Rated Torque N-m	3.2	4.8	6.4	9.6
额定电流 Rated Current Amps	4.2	6.3	8	13
输出功率 Output Power Watts	1000	1500	2000	3000
峰值扭矩 Peak Torque N-m	9.6	14.4	19.2	28.8
峰值电流 Peak Current Amps	12.6	18.9	24	39
力矩常数 Torque constant N-m/A	0.76	0.76	0.8	0.74
反电势常数 Back EMF Vrms/k RPM	61.4	56	57	63.2
转动惯量 Rotor inertia $g \cdot cm^2$	5.95	8.43	10.91	14.88
电机长度 Body Length (L) mm	110	140	170	230
重量 Mass kg	5.6	7.1	9.2	12.9

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	≤1500N
● 轴向负载 Shaft axial load	≤750N
● 径向间隙 Radial play of shaft	≤0.1mm
● 轴向间隙 Thrust play of shaft	≤0.2mm
● 防护等级 Protection Level	IP56
● 使用寿命 Life Span	20000H
● 工作环境温度 Working Temp	-20°C ~ +80°C

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外径110mm精密型直流无刷行星减速电机

110mm BRUSHLESS DC MOTOR WITH PRECISION PLANETARY GEARBOX

ZZMOTOR

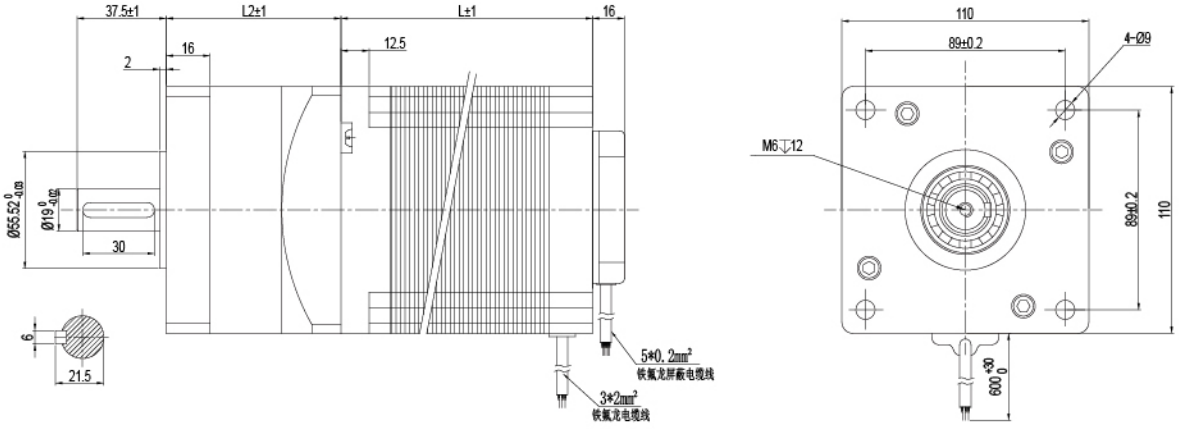
MPL110DSBYG 精密行星减速机技术参数

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	8	10	12	15	16	20	25	35	40	64
减速机长度（L2）Reducer length（L2）	mm	89					111								
额定输出扭矩 Rated output torque	N·m	150	135	150	145	130	150	150	150	140	140	150	135	125	125
最大容许扭矩 Torque moment	N·m	3倍额定输出扭矩													
传动效率 Transmission efficiency	%	95					90								
重量 weight	kg	5.0					8.0								

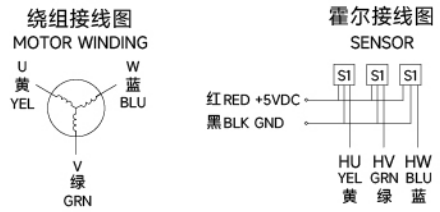
电机机械尺寸

DIMENSIONS UNIT=MM



电机接线图

WIRING DIAGRAM



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