外径42mm闭环直流无刷电机

42mm CLOSED-LOOP BRUSHLESS DC MOTOR

ZZMOTOR



电气性能
ELECTRICAL PERFORMANCE

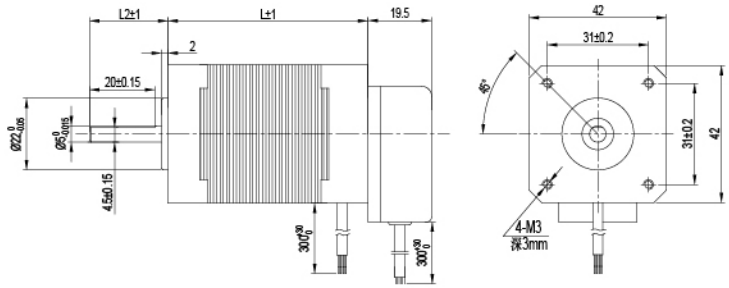
● 绕组连接方式 Winding Type	星形Star
● 霍尔电位角度 Hall Effect angle	120°
● 绝缘等级 Insulation Class	Class B
● 工作环境温度 Ambient Temperature Range	-20°C~+50°C
● 绝缘电阻 Insulation Resistance	100MΩMin 500VDC
● 介电强度 Dielectric Strength	700V AC 1 minute

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	0.040
反电势常数 Back EMF Vrms/k RPM	3.79	3.22	3.92	3.9
编码器 Encoder CPR	1000	1000	1000	1000
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	0.35	0.60	0.75	0.95

支持定制：光编、磁编、旋编（多种分辨率可选，增量式、绝对值式可选）
Support customization: Optical encoder, Magnetic encoder, Resolver; (Multiple resolutions avaliable, Incremental & Abslute types optional.)

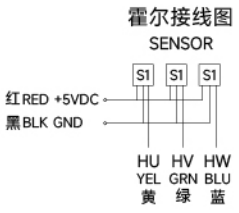
电机机械尺寸
DIMENSIONS UNIT=MM



电机接线图
WIRING DIAGRAM



编码器序号			
黑	绿	红	白
OV	A	VCC	B



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57mm闭环直流无刷电机

57mm CLOSED-LOOP BRUSHLESS DC MOTOR

ZZMOTOR

电气性能
ELECTRICAL PERFORMANCE

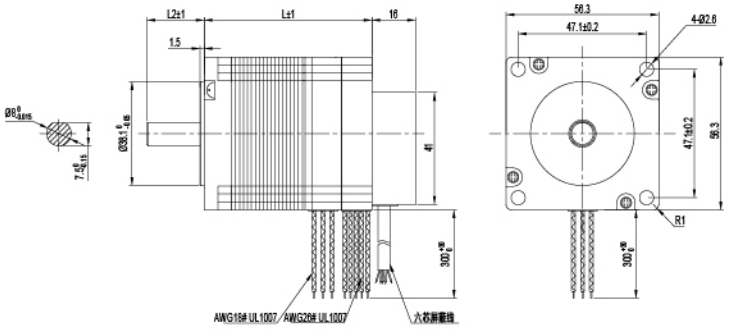
● 绕组连接方式 Winding Type	星形Star
● 霍尔电位角度 Hall Effect angle	120°
● 绝缘等级 Insulation Class	Class B
● 工作环境温度 Ambient Temperature Range	-20°C~+50°C
● 绝缘电阻 Insulation Resistance	100MΩMin 500VDC
● 介电强度 Dielectric Strength	700V AC 1 minute

技术数据
ELECTRICAL SPECIFICATIONS

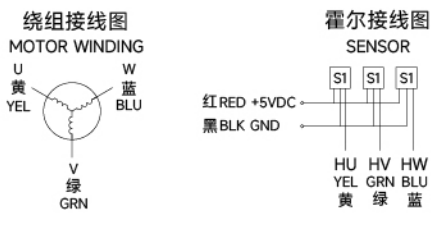
型号 Model	57BLF60-230	57BLF80-230	57BLF101-230	57BLF122-430
极数 Number of Poles	8			
相数 Number of Phases	3			
额定电压 Nominal voltage VDC	24	24	24	48
额定转速 Rated speed RPM	3000 (±10%)			
额定扭矩 Rated Torque N-m	0.2	0.4	0.6	0.8
额定电流 Rated Current Amps	3.9	7.5	11.5	6.6
输出功率 Output Power Watts	62	125	188	250
峰值扭矩 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
编码器 Encoder CPR	1000	1000	1000	1000
转动惯量 Rotor inertia g·cm²	184	331	468	602
电机长度 Body Length (L) mm	61	82.5	103	124
重量 Mass kg	0.7	1.0	1.3	1.7

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电机机械尺寸
DIMENSIONS UNIT=MM



电机接线图
WIRING DIAGRAM



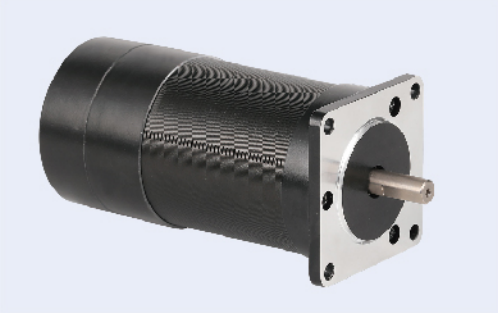
编码器序号					
黑	红	黄	绿	白	蓝
GND	+5V	PA-	PA+	PB-	PB+

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外径57mm闭环直流无刷电机

57mm CLOSED-LOOP BRUSHLESS DC MOTOR

ZZMOTOR



电气性能
ELECTRICAL PERFORMANCE

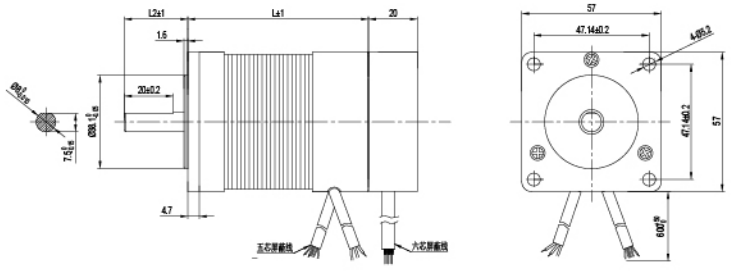
绕组连接方式 Winding Type	星形Star
霍尔电位角度 Hall Effect angle	120°
绝缘等级 Insulation Class	Class B
工作环境温度 Ambient Temperature Range	-20°C~+50°C
绝缘电阻 Insulation Resistance	100MΩMin 500VDC
介电强度 Dielectric Strength	700V AC 1 minute

技术数据
ELECTRICAL SPECIFICATIONS

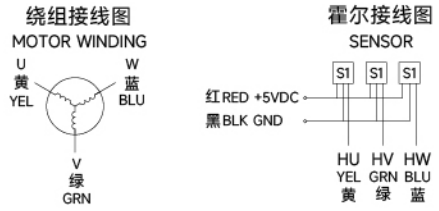
型号 Model	57BLY45-230	57BLY55-230	57BLY75-230	57BLY95-230	57BLY115-230
极数 Number of Poles	4				
相数 Number of Phases	3				
额定电压 Nominal voltage VDC	24	24	24	24	24
额定转速 Rated speed RPM	3000 (±10%)				
额定扭矩 Rated Torque N-m	0.055	0.11	0.22	0.33	0.45
额定电流 Rated Current Amps	1.2	2.2	4.1	5.9	7.7
输出功率 Output 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
编码器 Encoder CPR	1000	1000	1000	1000	1000
转动惯量 Rotor inertia g·cm²	68	84	145	209	268
电机长度 Body Length (L) mm	45	55	75	95	115
重量 Mass kg	0.55	0.65	0.85	1.15	1.4

支持定制：光编、磁编、旋编（多种分辨率可选，增量式、绝对值式可选）
Support customization: Optical encoder, Magnetic encoder, Resolver; (Multiple resolutions avaliable, Incremental & Abslute types optional.)

电机机械尺寸
DIMENSIONS UNIT=MM



电机接线图
WIRING DIAGRAM



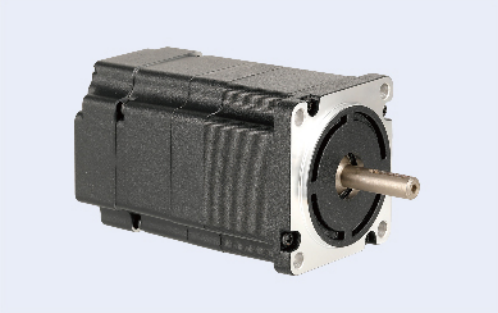
编码器序号					
黑	红	白	蓝	黄	绿
GND	+5V	PA-	PA+	PB-	PB+

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外径60mm闭环直流无刷电机

60mm CLOSED-LOOP BRUSHLESS DC MOTOR

ZZMOTOR



电气性能
ELECTRICAL PERFORMANCE

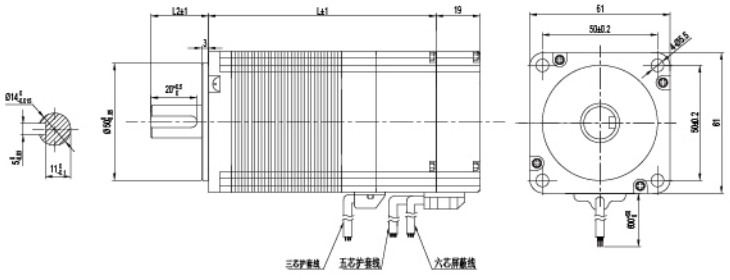
● 绕组连接方式 Winding Type	星形Star
● 霍尔电位角度 Hall Effect angle	120°
● 绝缘等级 Insulation Class	Class B
● 工作环境温度 Ambient Temperature Range	-20°C~+50°C
● 绝缘电阻 Insulation Resistance	100MΩMin 500VDC
● 介电强度 Dielectric Strength	700V AC 1 minute

技术数据
ELECTRICAL SPECIFICATIONS

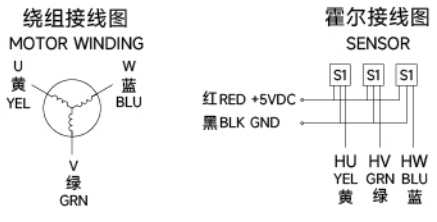
型号 Model	60BLFA78-430	60BLFA99-430	60BLFA120-430	60BLFA141-430
极数 Number of Poles	8			
相数 Number of Phases	3			
额定电压 Nominal voltage VDC	48	48	48	48
额定转速 Rated speed RPM	3000 (±10%)			
额定扭矩 Rated Torque N-m	0.32	0.65	0.95	1.28
额定电流 Rated Current Amps	3.2	5.3	8.3	11.5
输出功率 Output Power Watts	100	200	300	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	0.01	0.123	0.114	0.11
反电势常数 Back EMF Vrms/k RPM	8.01	8.79	8.75	8.88
编码器 Encoder CPR	1000	1000	1000	1000
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	1.0	1.4	1.9	2.3

支持定制：光编、磁编、旋编（多种分辨率可选，增量式、绝对值式可选）
Support customization: Optical encoder, Magnetic encoder, Resolver; (Multiple resolutions avaliable, Incremental & Abslute types optional.)

电机机械尺寸
DIMENSIONS UNIT=MM



电机接线图
WIRING DIAGRAM



编码器序号					
黑	红	白	蓝	黄	绿
GND	+5V	PA-	PA+	PB-	PB+

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外径70mm闭环直流无刷电机

70mm CLOSED-LOOP BRUSHLESS DC MOTOR

ZZMOTOR

电气性能
ELECTRICAL PERFORMANCE

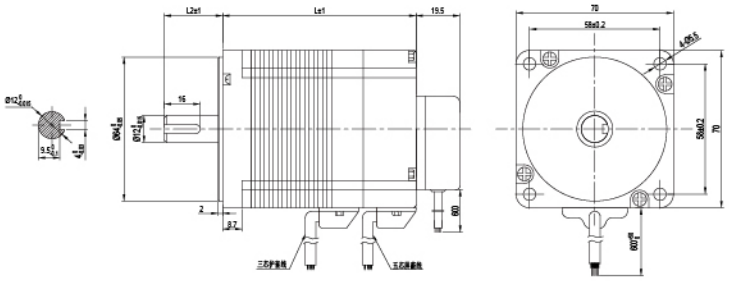
● 绕组连接方式 Winding Type	星形Star
● 霍尔电位角度 Hall Effect angle	120°
● 绝缘等级 Insulation Class	Class B
● 工作环境温度 Ambient Temperature Range	-20°C~+50°C
● 绝缘电阻 Insulation Resistance	100MΩMin 500VDC
● 介电强度 Dielectric Strength	700V AC 1 minute

技术数据
ELECTRICAL SPECIFICATIONS

型号 Model	70BLF86-430	70BLF116-430	70BLF146-430
极数 Number of Poles		8	
相数 Number of Phases		3	
额定电压 Nominal voltage VDC	48	48	48
额定转速 Rated speed RPM		3000 (±10%)	
额定扭矩 Rated Torque N-m	0.53	1.1	1.5
额定电流 Rated Current Amps	4.5	9.5	13
输出功率 Output Power Watts	166	345	471
峰值扭矩 Peak Torque N-m	1.59	3.3	4.5
峰值电流 Peak Current Amps	13.5	28.5	39
力矩常数 Torque constant N-m/A	0.117	0.116	0.115
反电势常数 Back EMF Vrms/k RPM	8.87	9.07	8.38
编码器 Encoder CPR	1000	1000	1000
转动惯量 Rotor inertia $kg \cdot cm^2$	0.56	0.99	1.4
电机长度 Body Length (L) mm	86	116	146
重量 Mass kg	1.5	2.2	3.0

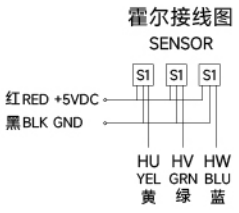
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Support customization: Optical encoder, Magnetic encoder, Resolver; (Multiple resolutions avaliable, Incremental & Abslute types optional.)

电机机械尺寸
DIMENSIONS UNIT=MM



电机接线图
WIRING DIAGRAM





编码器序号			
黑	绿	红	白
OV	A	VCC	B

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外径80mm闭环直流无刷电机

80mm CLOSED-LOOP BRUSHLESS DC MOTOR

ZZMOTOR

电气性能
ELECTRICAL PERFORMANCE

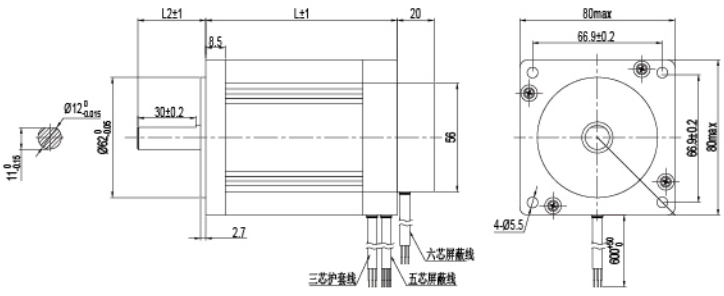
● 绕组连接方式 Winding Type	星形Star
● 霍尔电位角度 Hall Effect angle	120°
● 绝缘等级 Insulation Class	Class B
● 工作环境温度 Ambient Temperature Range	-20°C~+50°C
● 绝缘电阻 Insulation Resistance	100MΩMin 500VDC
● 介电强度 Dielectric Strength	700V AC 1 minute

技术数据
ELECTRICAL SPECIFICATIONS

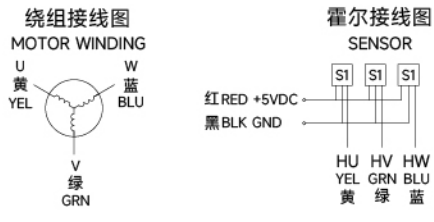
型号 Model	80BLF86-430	80BLF106-430	80BLF126-430
极数 Number of Poles		8	
相数 Number of Phases		3	
额定电压 Nominal voltage VDC	48	48	48
额定转速 Rated speed RPM		3000 (±10%)	
额定扭矩 Rated Torque N-m	0.5	0.75	1.2
额定电流 Rated Current Amps	4.1	5.7	9.4
输出功率 Output Power Watts	157	235	376
峰值扭矩 Peak Torque N-m	1.5	2.25	3.6
峰值电流 Peak Current Amps	12.3	17.1	28.2
力矩常数 Torque constant N-m/A	0.122	0.132	0.128
反电势常数 Back EMF Vrms/k RPM	8.86	9.54	9.77
编码器 Encoder CPR	1000	1000	1000
转动惯量 Rotor inertia $kg \cdot cm^2$	0.53	0.84	1.17
电机长度 Body Length (L) mm	86	106	126
重量 Mass kg	1.5	2.1	2.6

支持定制：光编、磁编、旋编（多种分辨率可选，增量式、绝对值式可选）
Support customization: Optical encoder, Magnetic encoder, Resolver; (Multiple resolutions avaliable, Incremental & Abslute types optional.)

电机机械尺寸
DIMENSIONS UNIT=MM



电机接线图
WIRING DIAGRAM



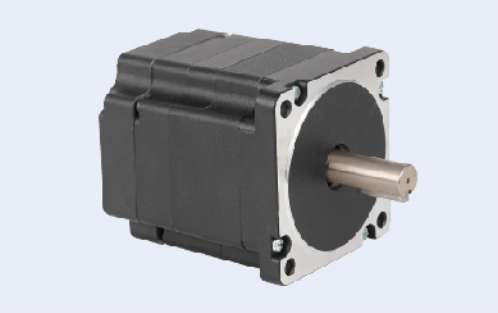
编码器序号					
黑	红	白	蓝	黄	绿
GND	+5V	PA-	PA+	PB-	PB+

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外径86mm闭环直流无刷电机

86mm CLOSED-LOOP BRUSHLESS DC MOTOR

ZZMOTOR



电气性能
ELECTRICAL PERFORMANCE

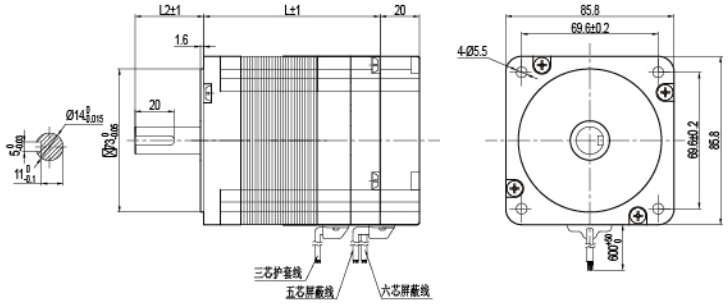
● 绕组连接方式 Winding Type	星形Star
● 霍尔电位角度 Hall Effect angle	120°
● 绝缘等级 Insulation Class	Class B
● 工作环境温度 Ambient Temperature Range	-20°C~+50°C
● 绝缘电阻 Insulation Resistance	100MΩMin 500VDC
● 介电强度 Dielectric Strength	700V AC 1 minute

技术数据
ELECTRICAL SPECIFICATIONS

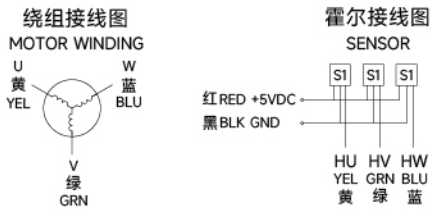
型号 Model	86BLF75-430	86BLF90-430	86BLF105-430	86BLF115-430	86BLF145-430
极数 Number of Poles	8				
相数 Number of Phases	3				
额定电压 Nominal voltage VDC	48	48	48	48	48
额定转速 Rated speed RPM	3000 (±10%)				
额定扭矩 Rated Torque N-m	0.41	0.8	1.3	1.7	2.4
额定电流 Rated Current Amps	3.7	6.8	11.3	14.5	19
输出功率 Output Power 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	0.11	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
编码器 Encoder CPR	1000	1000	1000	1000	1000
转动惯量 Rotor inertia kg·cm²	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	1.7	2.2	2.7	3.2	4.2

支持定制：光编、磁编、旋编（多种分辨率可选，增量式、绝对值式可选）
Support customization: Optical encoder, Magnetic encoder, Resolver; (Multiple resolutions avaliable, Incremental & Abslute types optional.)

电机机械尺寸
DIMENSIONS UNIT=MM



电机接线图
WIRING DIAGRAM



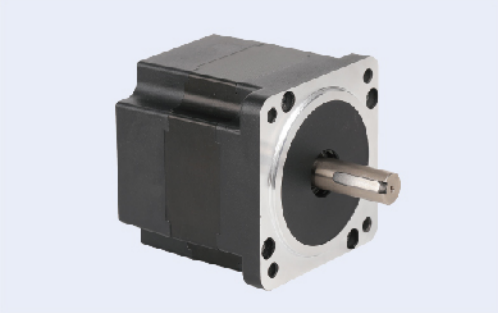
编码器序号					
黑	红	白	蓝	黄	绿
GND	+5V	PA-	PA+	PB-	PB+

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86mm闭环直流无刷电机

86mm CLOSED-LOOP BRUSHLESS DC MOTOR

ZZMOTOR



电气性能
ELECTRICAL PERFORMANCE

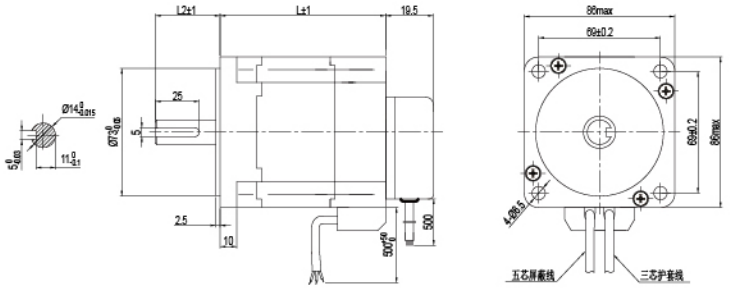
● 绕组连接方式 Winding Type	星形Star
● 霍尔电位角度 Hall Effect angle	120°
● 绝缘等级 Insulation Class	Class B
● 工作环境温度 Ambient Temperature Range	-20°C~+50°C
● 绝缘电阻 Insulation Resistance	100MΩMin 500VDC
● 介电强度 Dielectric Strength	700V AC 1 minute

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	0.131
反电势常数 Back EMF Vrms/k RPM	9.4	11.7	10.5	10.5	10.7
编码器 Encoder CPR	1000	1000	1000	1000	1000
转动惯量 Rotor inertia kg·cm²	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	1.6	2.1	3.1	3.6	4.2

支持定制：光编、磁编、旋编（多种分辨率可选，增量式、绝对值式可选）
Support customization: Optical encoder, Magnetic encoder, Resolver; (Multiple resolutions avaliable, Incremental & Abslute types optional.)

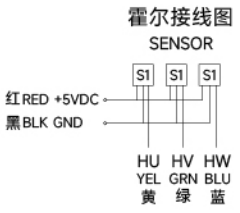
电机机械尺寸
DIMENSIONS UNIT=MM



电机接线图
WIRING DIAGRAM



编码器序号			
黑	绿	红	白
OV	A	VCC	B



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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110mm闭环直流无刷电机

110mm CLOSED-LOOP BRUSHLESS DC MOTOR

ZZMOTOR

电气性能
ELECTRICAL PERFORMANCE

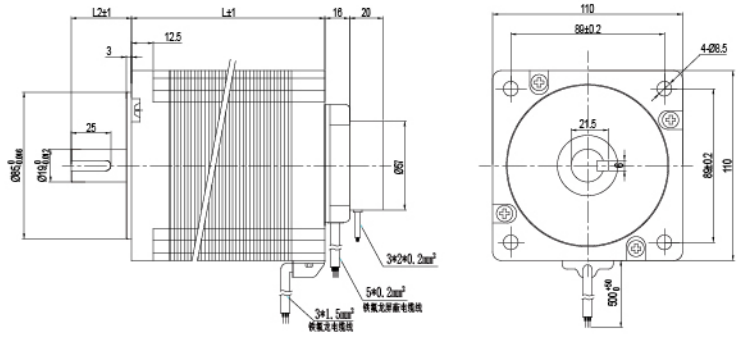
● 绕组连接方式 Winding Type	三角形 Triangle
● 霍尔电位角度 Hall Effect angle	120°
● 绝缘等级 Insulation Class	Class B
● 工作环境温度 Ambient Temperature Range	-20°C~+50°C
● 绝缘电阻 Insulation Resistance	100MΩMin 500VDC
● 介电强度 Dielectric Strength	700V AC 1 minute

技术数据
ELECTRICAL SPECIFICATIONS

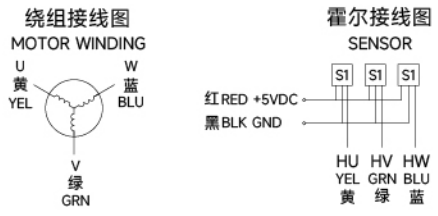
型号 Model	110BLF110-630	110BLF140-630	110BLF170-630	110BLF230-630
极数 Number of Poles	8			
相数 Number of Phases	3			
额定电压 Nominal voltage VDC	310	310	310	310
额定转速 Rated speed RPM	3000 (±10%)			
额定扭矩 Rated Torque N-m	3.2	4.8	6.4	9.6
额定电流 Rated Current Amps	4.2	6.3	8	13
输出功率 Output Power Watts	1000	1500	2000	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
编码器 Encoder CPR	1000	1000	1000	1000
转动惯量 Rotor inertia kg·cm²	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

支持定制：光编、磁编、旋编（多种分辨率可选，增量式、绝对值式可选）
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电机机械尺寸
DIMENSIONS UNIT=MM



电机接线图
WIRING DIAGRAM



编码器序号					
黑	红	白	蓝	黄	绿
GND	+5V	PA-	PA+	PB-	PB+

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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