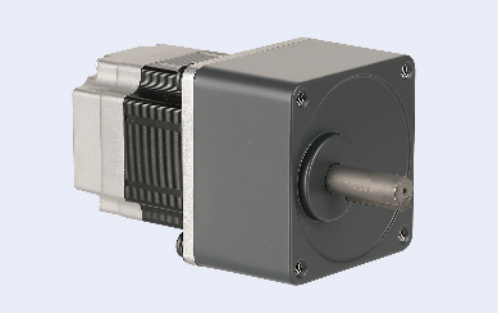
外径57mm偏心齿轮直流无刷减速电机

57mm BRUSHLESS DC MOTOR WITH ECCENTRIC 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	0.05	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	82.5	103	124
重量 Mass kg	0.6	0.92	1.23	1.6

2GN-K偏心减速机技术参数
ECCENTRIC GEARBOX ELECTRICAL SPECIFICATIONS

减速比 Reduction ratio		3	3.6	5	7.5	9	10	12.5	15	18	20	25	30	36	50	60	75	90	100	120	150	180	250
减速机长度（L2） Reducer length（L2）	mm	32								42													
最大容许扭矩 Torque moment	N.m	1.2	1.4	2	2.8	3.6	3.8	4.5	5.4	7	7.4	8	9.8	11.8	14.8	19.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5

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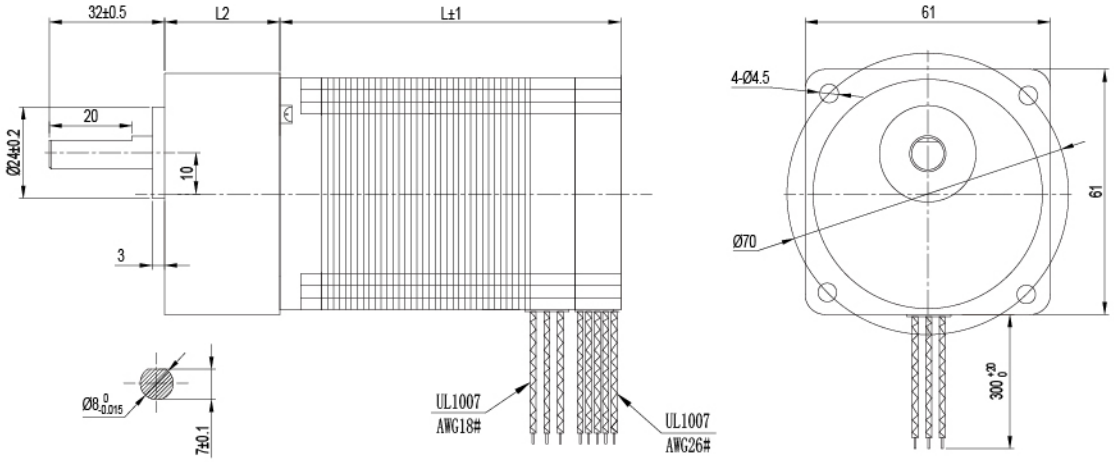
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外径57mm偏心齿轮直流无刷减速电机

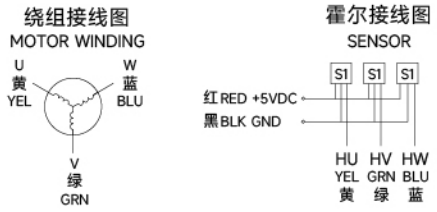
57mm BRUSHLESS DC MOTOR WITH ECCENTRIC GEARBOX

ZZMOTOR

电机机械尺寸
DIMENSIONS UNIT=MM



电机接线图
WIRING DIAGRAM



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外径57mm偏心齿轮直流无刷减速电机

57mm BRUSHLESS DC MOTOR WITH ECCENTRIC 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

2GN-K偏心减速机技术参数
ECCENTRIC GEARBOX ELECTRICAL SPECIFICATIONS

减速比 Reduction ratio		3	3.6	5	7.5	9	10	12.5	15	18	20	25	30	36	50	60	75	90	100	120	150	180	250
减速机长度（L2） Reducer length（L2）	mm	32								42													
最大容许扭矩 Torque moment	N.m	1.2	1.4	2	2.8	3.6	3.8	4.5	5.4	7	7.4	8	9.8	11.8	14.8	19.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5

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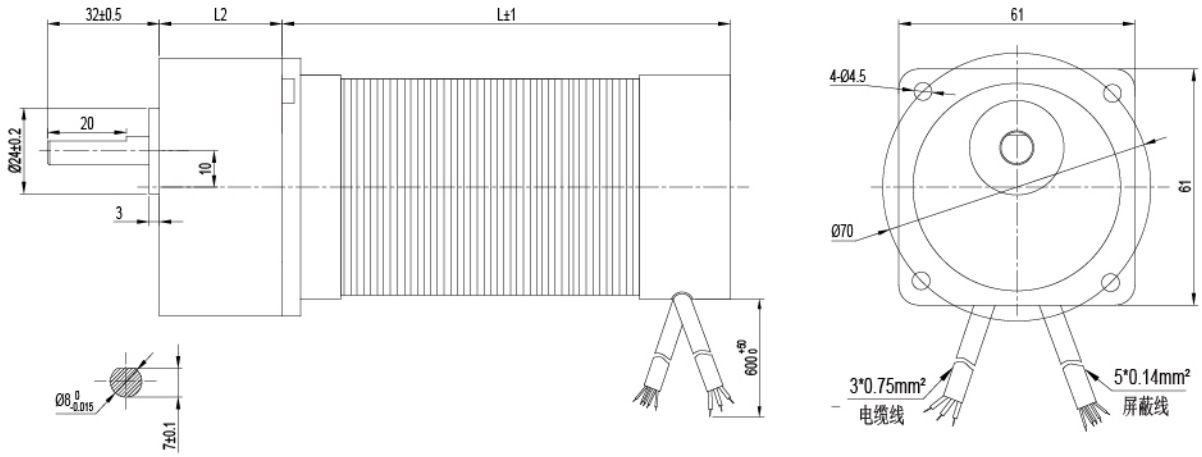
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外径57mm偏心齿轮直流无刷减速电机

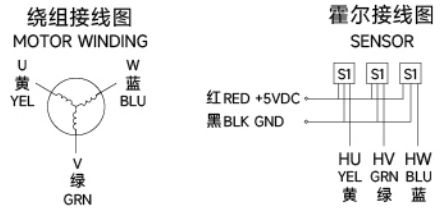
57mm BRUSHLESS DC MOTOR WITH ECCENTRIC GEARBOX

ZZMOTOR

电机机械尺寸
DIMENSIONS UNIT=MM



电机接线图
WIRING DIAGRAM



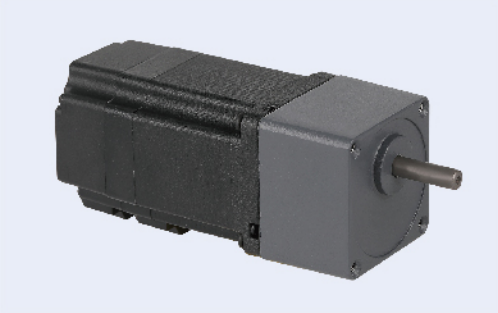
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外径60mm偏心齿轮直流无刷减速电机

60mm BRUSHLESS DC MOTOR WITH ECCENTRIC 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

2GN-K偏心减速机技术参数
ECCENTRIC GEARBOX ELECTRICAL SPECIFICATIONS

减速比 Reduction ratio		3	3.6	5	7.5	9	10	12.5	15	18	20	25	30	36	50	60	75	90	100	120	150	180	250
减速机长度（L2） Reducer length（L2）	mm	32								42													
最大容许扭矩 Torque moment	N.m	1.2	1.4	2	2.8	3.6	3.8	4.5	5.4	7	7.4	8	9.8	11.8	14.8	19.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5

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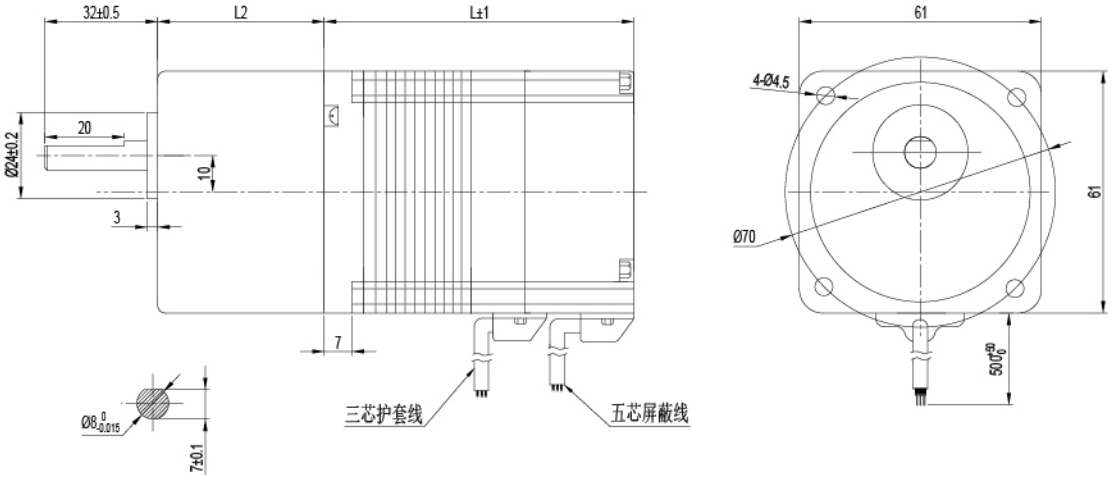
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外径60mm偏心齿轮直流无刷减速电机

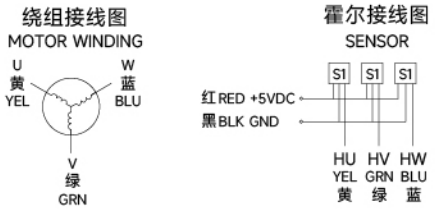
60mm BRUSHLESS DC MOTOR WITH ECCENTRIC GEARBOX

ZZMOTOR

电机机械尺寸
DIMENSIONS UNIT=MM



电机接线图
WIRING DIAGRAM



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外径70mm偏心齿轮直流无刷减速电机

70mm BRUSHLESS DC MOTOR WITH ECCENTRIC 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	70BLF86-430-001	70BLF116-430-001	70BLF146-430-001
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	0.118	0.116	0.115
反电势常数 Back EMF Vrms/k RPM	8.87	9.07	8.38
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	1.3	2.0	2.8

2GN-K偏心减速机技术参数
ECCENTRIC GEARBOX ELECTRICAL SPECIFICATIONS

减速比 Reduction ratio		3	3.6	5	7.5	9	10	12.5	15	18	20	25	30	36	50	60	75	90	100	120	150	180	250
减速机长度（L2） Reducer length（L2）	mm	32								42													
最大容许扭矩 Torque moment	N.m	2.8	3.4	4.8	7.5	8.5	9.2	11.8	14.8	15.2	15.5	17.8	21.6	23.5	34	39.2	44	49	49	49	49	49	49

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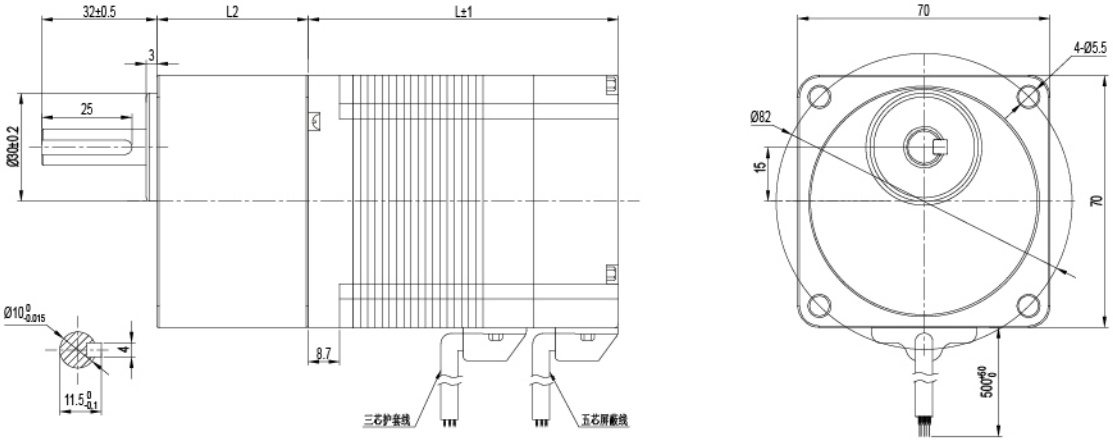
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外径70mm偏心齿轮直流无刷减速电机

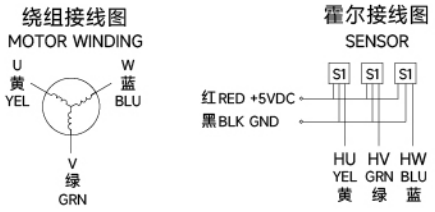
70mm BRUSHLESS DC MOTOR WITH ECCENTRIC GEARBOX

ZZMOTOR

电机机械尺寸
DIMENSIONS UNIT=MM



电机接线图
WIRING DIAGRAM



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外径86mm偏心齿轮直流无刷减速电机

86mm BRUSHLESS DC MOTOR WITH ECCENTRIC 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	0.118	0.115	0.117	0.114
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 $kg \cdot cm^2$	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

5GN-K偏心减速机技术参数
ECCENTRIC GEARBOX ELECTRICAL SPECIFICATIONS

减速比 Reduction ratio		3	3.6	5	7.5	9	10	12.5	15	18	20	25	30	36	50	60	75	90	100	120	150	180	250	300	500
减速机长度（L2） Reducer length（L2）	mm	45								60															
最大容许扭矩 Torque moment	N.m	7.4	8.6	11.8	17.8	21.6	22.8	29.4	35.5	41.7	46.2	54	64.8	77.8	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5

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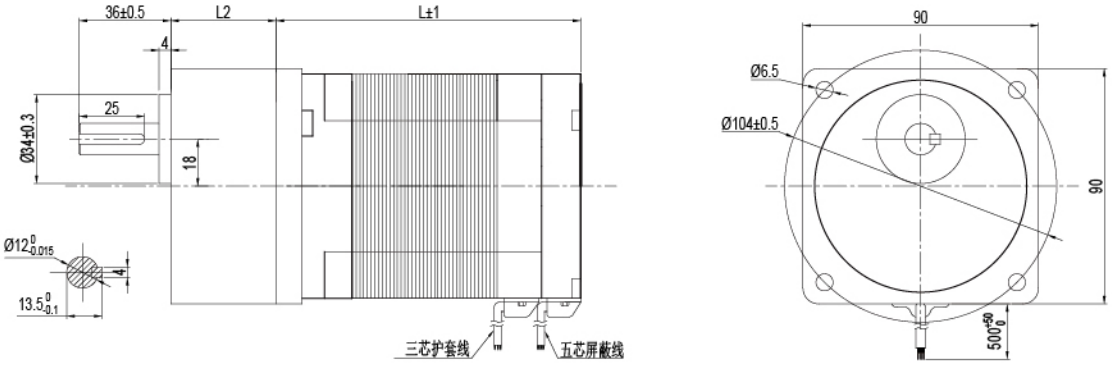
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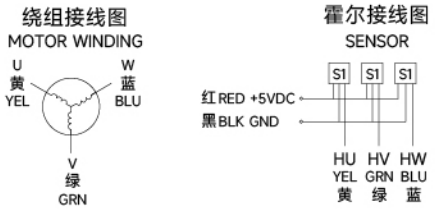
86mm BRUSHLESS DC MOTOR WITH ECCENTRIC GEARBOX

ZZMOTOR

电机机械尺寸
DIMENSIONS UNIT=MM



电机接线图
WIRING DIAGRAM



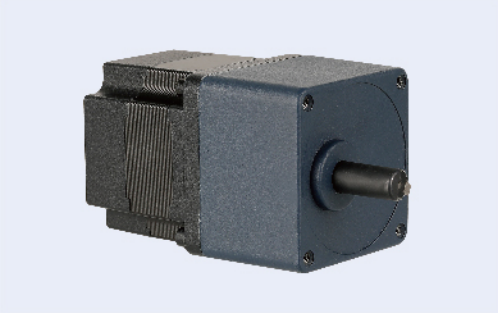
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外径86mm偏心齿轮直流无刷减速电机

86mm BRUSHLESS DC MOTOR WITH ECCENTRIC 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	0.111	0.118	0.115	0.117	0.126
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 $kg \cdot cm^2$	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

5GN-K偏心减速机技术参数
ECCENTRIC GEARBOX ELECTRICAL SPECIFICATIONS

减速比 Reduction ratio		3	3.6	5	7.5	9	10	12.5	15	18	20	25	30	36	50	60	75	90	100	120	150	180	250	300	500
减速机长度（L2） Reducer length（L2）	mm	45								60															
最大容许扭矩 Torque moment	N.m	7.4	8.6	11.8	17.8	21.6	22.8	29.4	35.5	41.7	46.2	54	64.8	77.8	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5

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

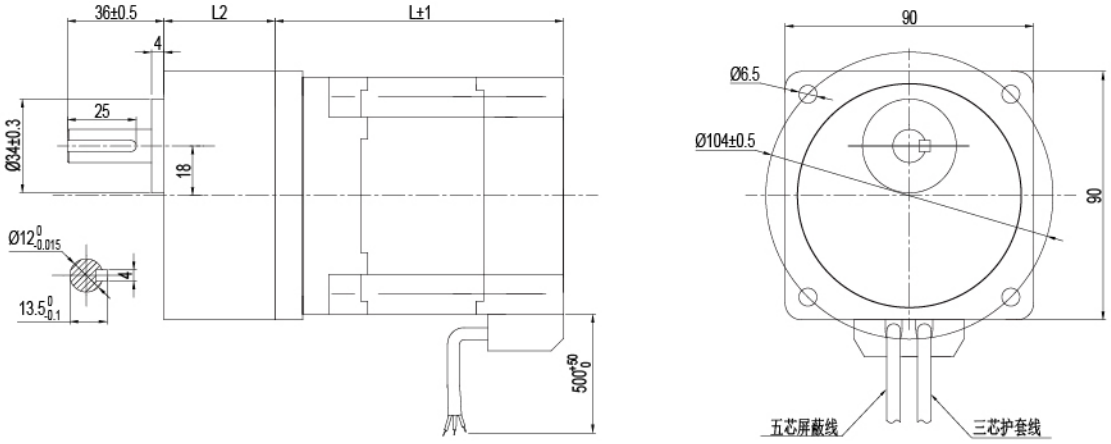
We can customize the motor's electrical parameters, output shaft dimensions, and other shapes according to customer requirements. We can also add planetary gearboxes, encoders, and other accessories. For more product information, please visit our company website:en.zz-motor.com

外径86mm偏心齿轮直流无刷减速电机

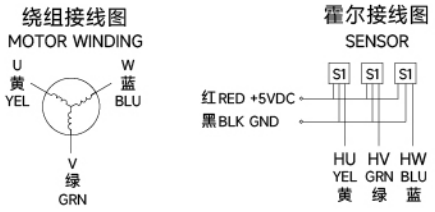
86mm BRUSHLESS DC MOTOR WITH ECCENTRIC GEARBOX

ZZMOTOR

电机机械尺寸
DIMENSIONS UNIT=MM



电机接线图
WIRING DIAGRAM



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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