20HS 1.8° 闭环步进电机

NEMA 8 1.8°CLOSED-LOOP STEPPER MOTOR

ZZMOTOR



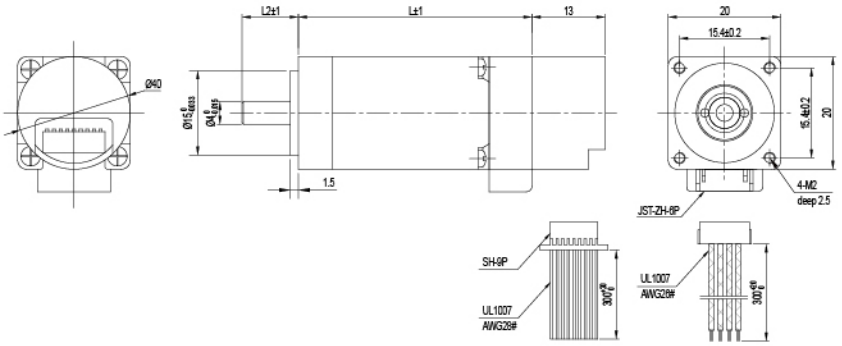
电气性能参数
ELECTRICAL SPECIFICATIONS

步矩角精度 Step Accuracy	±5%(整步无负载, full step, no load)
温升 Temperature	50K Max
工作环境温度 Ambient Temperature	-20°C~+50°C
绝缘电阻 Insulation Resistance	100MΩMin 500VC DC
介电强度 Dielectric Strength	600VAC/1S
绝缘等级 Insulation Class	B,130°C

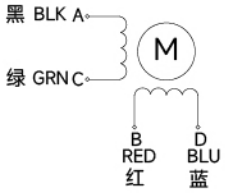
常规指标及参数
COMMON RATINGS & SPECIFICATIONS

电机型号 Model	机身长 Length L mm	相电流 Phase Current A	相电阻 Phase Resistance Ω	相电感 Phase Inductance mH	静转矩 Holding Torque N.m	转子惯量 Rotor Inertia g.cm²	引线数 Lead Wire NO.	重量 Weight Kg
20HS30-0504A	30	0.5	4.8	1.3	0.011	2.1	4	0.05
20HS38-0604A	38	0.6	6.5	1.7	0.018	3.0	4	0.06
20HS42-0504A	42	0.5	5.2	1.8	0.020	3.8	4	0.09

电机机械尺寸
DIMENSIONS UNIT=MM

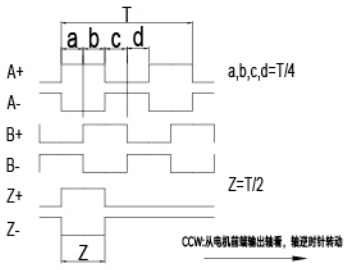


电机接线图
WIRING DIAGRAM



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

输出波形
OUTPUT WAVEFORM



分辨率：500线/512线/1000线/1024线/2000线

Resolution: 500 PPR/521 PPR/1000 PPR/1024 PPR/2000 PPR

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，也可以增配带轮、偏心减速箱和行星减速箱、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 electrical parameters, output shaft size and other shapes according to customer requirements. We can also add planetary reducers, encoders, etc. For more product information, please visit our company website: en.zz-motor.com

注意事项：电机安装时务必使用安装止口定位，严格保证电机输出轴与负载的同心度，电机正常工作时表面温度不允许超过85°C

Notes: When installing the motor, position it via the mounting spigot. Ensure strict concentricity between the motor output shaft and the load. The surface temperature of the motor shall not exceed 85°C during normal operation.

28HS 1.8°闭环步进电机

NEMA 11 1.8°CLOSED-LOOP STEPPER MOTOR

ZZMOTOR

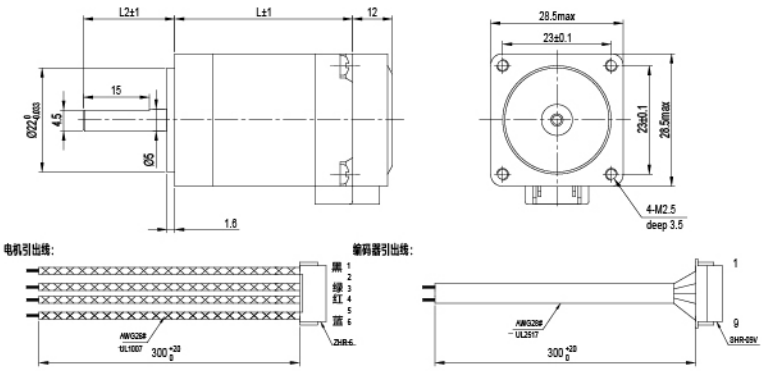
电气性能参数
ELECTRICAL SPECIFICATIONS

步矩角精度 Step Accuracy	±5%(整步无负载, full step, no load)
温升 Temperature	50K Max
工作环境温度 Ambient Temperature	-20°C~+50°C
绝缘电阻 Insulation Resistance	100MΩMin 500VC DC
介电强度 Dielectric Strength	600VAC/1S
绝缘等级 Insulation Class	B,130°C

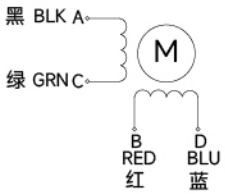
常规指标及参数
COMMON RATINGS & SPECIFICATIONS

电机型号 Model	机身长 Length L mm	相电流 Phase Current A	相电阻 Phase Resistance Ω	相电感 Phase Inductance mH	静转矩 Holding Torque N.m	转子惯量 Rotor Inertia g.cm²	引线数 Lead Wire NO.	重量 Weight Kg
28HS30-1004A	30	1.0	2.9	1.9	0.07	8.5	4	0.09
28HSA33-0804A	33	0.8	5.3	3.3	0.08	9.3	4	0.1
28HS40-0704A	40	0.7	6.5	6.0	0.12	13.5	4	0.12
28HSA45-0804A	45	0.8	7.8	5.4	0.13	15	4	0.15
28HSA48-0804A	48	0.8	8.6	6.7	0.13	17.2	4	0.20
28HS50-0674A	50	0.67	8.4	5.6	0.12	18.9	4	0.21

电机机械尺寸
DIMENSIONS UNIT=MM

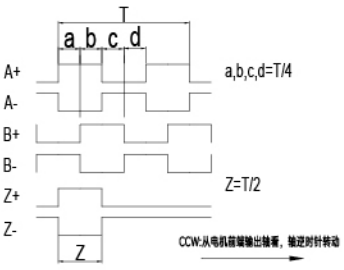


电机接线图
WIRING DIAGRAM



编码器序号								
1	2	3	4	5	6	7	8	9
红	黑	白	黄	橙	灰	屏蔽	绿	黄
+5V	GND	PA+	PA-	PZ+	PZ-	PE	PB+	PB-

输出波形
OUTPUT WAVEFORM



分辨率：500线/512线/1000线/1024线/2000线

Resolution: 500 PPR/521 PPR/1000 PPR/1024 PPR/2000 PPR

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，也可以增配带轮、偏心减速箱和行星减速箱、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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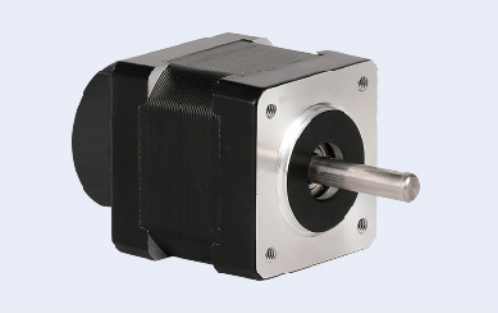
注意事项：电机安装时务必使用安装止口定位，严格保证电机输出轴与负载的同心度，电机正常工作时表面温度不允许超过85°C

Notes: When installing the motor, position it via the mounting spigot. Ensure strict concentricity between the motor output shaft and the load. The surface temperature of the motor shall not exceed 85°C during normal operation.

35HS 1.8°闭环步进电机

NEMA 14 1.8°CLOSED-LOOP STEPPER MOTOR

ZZMOTOR



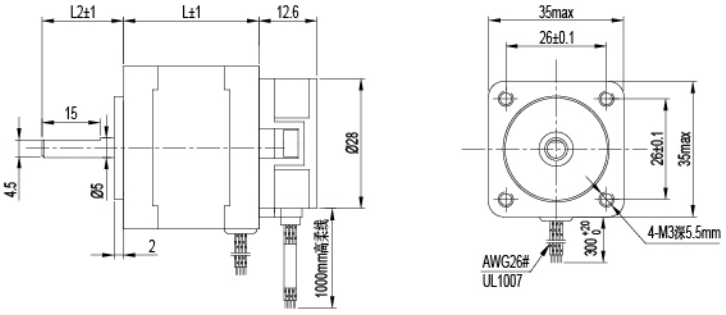
电气性能参数
ELECTRICAL SPECIFICATIONS

步矩角精度 Step Accuracy	±5%(整步无负载, full step, no load)
温升 Temperature	50K Max
工作环境温度 Ambient Temperature	-20°C~+50°C
绝缘电阻 Insulation Resistance	100MΩMin 500VC DC
介电强度 Dielectric Strength	600VAC/1S
绝缘等级 Insulation Class	B,130°C

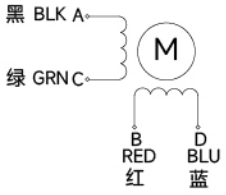
常规指标及参数
COMMON RATINGS & SPECIFICATIONS

电机型号 Model	机身长 Length L mm	相电流 Phase Current A	相电阻 Phase Resistance Ω	相电感 Phase Inductance mH	静转矩 Holding Torque N.m	转子惯量 Rotor Inertia g.cm²	引线数 Lead Wire NO.	重量 Weight Kg
35HS28-0504A	28	0.5	19.5	17.5	0.22	21	4	0.12
35HS30-0804A	30	0.8	3.5	3.5	0.12	21.6	4	0.13
35HS34-0804A	34	0.8	4.3	6.2	0.2	38	4	0.16
35HS44-1504A	44	1.5	2.1	2.8	0.25	43	4	0.18
35HS50-1704A	50	1.7	2	3.2	0.36	56	4	0.21

电机机械尺寸
DIMENSIONS UNIT=MM

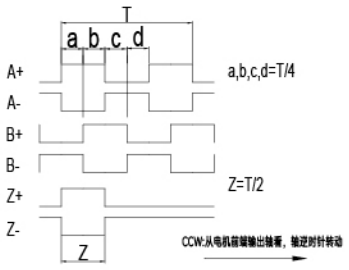


电机接线图
WIRING DIAGRAM



编码器序号							
黑	红	棕	绿	灰	白	橙	黄
GND	+5V	PA-	PA+	PB-	PB+	PZ-	PZ+

输出波形
OUTPUT WAVEFORM



分辨率：500线/512线/1000线/1024线/2000线

Resolution: 500 PPR/521 PPR/1000 PPR/1024 PPR/2000 PPR

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注意事项：电机安装时务必使用安装止口定位，严格保证电机输出轴与负载的同心度，电机正常工作时表面温度不允许超过85°C

Notes: When installing the motor, position it via the mounting spigot. Ensure strict concentricity between the motor output shaft and the load. The surface temperature of the motor shall not exceed 85°C during normal operation.

39HS 1.8°闭环步进电机

NEMA 16 1.8°CLOSED-LOOP STEPPER MOTOR

ZZMOTOR

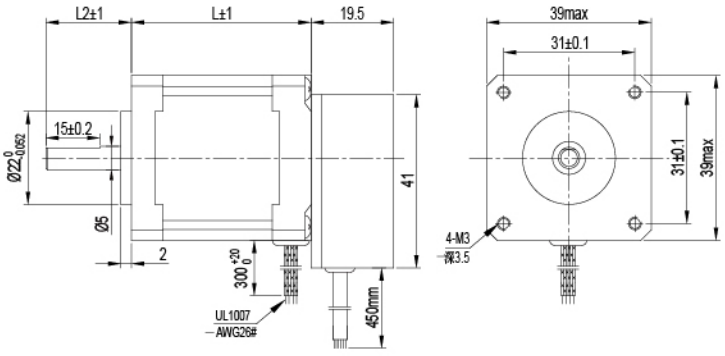
电气性能参数
ELECTRICAL SPECIFICATIONS

步矩角精度 Step Accuracy	±5%(整步无负载, full step, no load)
温升 Temperature	50K Max
工作环境温度 Ambient Temperature	-20°C~+50°C
绝缘电阻 Insulation Resistance	100MΩMin 500VC DC
介电强度 Dielectric Strength	600VAC/1S
绝缘等级 Insulation Class	B,130°C

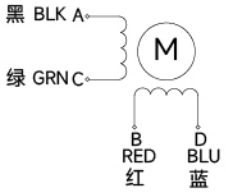
常规指标及参数
COMMON RATINGS & SPECIFICATIONS

电机型号 Model	机身长 Length L mm	相电流 Phase Current A	相电阻 Phase Resistance Ω	相电感 Phase Inductance mH	静转矩 Holding Torque N.m	转子惯量 Rotor Inertia g.cm²	引线数 Lead Wire NO.	重量 Weight Kg
39HS20-0474A	20	0.47	25	22.1	0.086	10.7	4	0.12
39HS34-0404A	34	0.4	30	35	0.16	26.5	4	0.16
39HS38-1004A	38	1.0	2.0	3.7	0.23	37	4	0.21
39HS44-1004A	44	1.0	6.0	14.8	0.45	46	4	0.26
39HS47-1004A	47	1.0	7.8	17	0.45	41	4	0.30
39HS54-1504A	54	1.5	2.3	5.8	0.45	55.6	4	0.40

电机机械尺寸
DIMENSIONS UNIT=MM

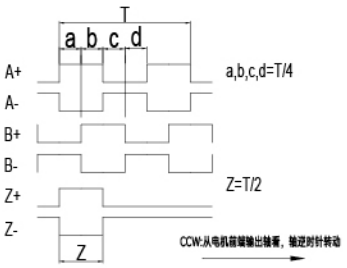


电机接线图
WIRING DIAGRAM



编码器序号			
黑	红	绿	白
GND	+5V	PA	PB

输出波形
OUTPUT WAVEFORM



分辨率：500线/512线/1000线/1024线/2000线

Resolution: 500 PPR/521 PPR/1000 PPR/1024 PPR/2000 PPR

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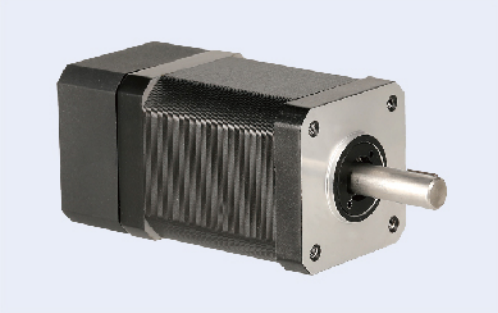
注意事项：电机安装时务必使用安装止口定位，严格保证电机输出轴与负载的同心度，电机正常工作时表面温度不允许超过85°C

Notes: When installing the motor, position it via the mounting spigot. Ensure strict concentricity between the motor output shaft and the load. The surface temperature of the motor shall not exceed 85°C during normal operation.

42HS 1.8°闭环步进电机

NEMA 17 1.8°CLOSED-LOOP STEPPER MOTOR

ZZMOTOR



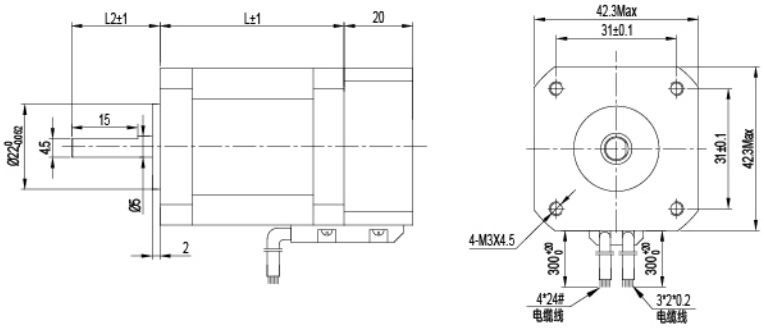
电气性能参数
ELECTRICAL SPECIFICATIONS

步矩角精度 Step Accuracy	±5%(整步无负载, full step, no load)
温升 Temperature	50K Max
工作环境温度 Ambient Temperature	-20°C~+50°C
绝缘电阻 Insulation Resistance	100MΩMin 500VC DC
介电强度 Dielectric Strength	600VAC/1S
绝缘等级 Insulation Class	B,130°C

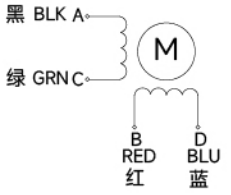
常规指标及参数
COMMON RATINGS & SPECIFICATIONS

电机型号 Model	机身长 Length L mm	相电流 Phase Current A	相电阻 Phase Resistance Ω	相电感 Phase Inductance mH	静转矩 Holding Torque N.m	转子惯量 Rotor Inertia g.cm²	引线数 Lead Wire NO.	重量 Weight Kg
42HS28-1204A	28	1.2	3	7.5	0.13	28.7	4	0.17
42HS34-1304A	34	1.3	2.4	2.8	0.24	41.8	4	0.22
42HS40-1704A	40	1.7	2.2	3.8	0.40	58.5	4	0.28
42HS48-1704A	48	1.7	3.1	5.0	0.55	79.5	4	0.35
42HS60-1704A	60	1.7	2.1	6.2	0.75	116	4	0.48

电机机械尺寸
DIMENSIONS UNIT=MM

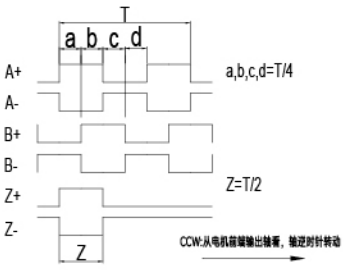


电机接线图
WIRING DIAGRAM



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

输出波形
OUTPUT WAVEFORM



分辨率：500线/512线/1000线/1024线/2000线

Resolution: 500 PPR/521 PPR/1000 PPR/1024 PPR/2000 PPR

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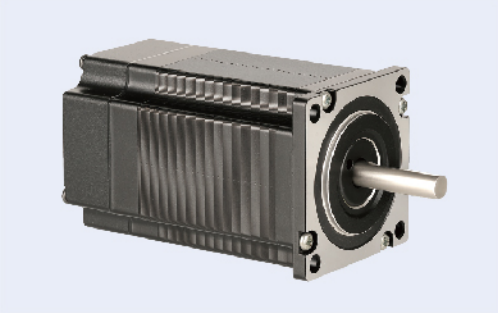
注意事项：电机安装时务必使用安装止口定位，严格保证电机输出轴与负载的同心度，电机正常工作时表面温度不允许超过85°C

Notes: When installing the motor, position it via the mounting spigot. Ensure strict concentricity between the motor output shaft and the load. The surface temperature of the motor shall not exceed 85°C during normal operation.

57HS 1.8°闭环步进电机

NEMA 23 1.8°CLOSED-LOOP STEPPER MOTOR

ZZMOTOR



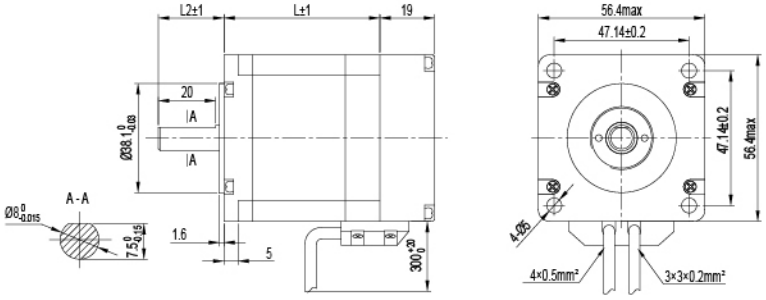
电气性能参数
ELECTRICAL SPECIFICATIONS

步矩角精度 Step Accuracy	±5%(整步无负载, full step, no load)
温升 Temperature	50K Max
工作环境温度 Ambient Temperature	-20°C~+50°C
绝缘电阻 Insulation Resistance	100MΩMin 500VC DC
介电强度 Dielectric Strength	600VAC/1S
绝缘等级 Insulation Class	B,130°C

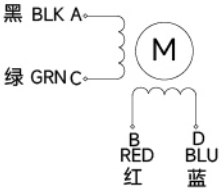
常规指标及参数
COMMON RATINGS & SPECIFICATIONS

电机型号 Model	机身长 Length L mm	相电流 Phase Current A	相电阻 Phase Resistance Ω	相电感 Phase Inductance mH	静转矩 Holding Torque N.m	转子惯量 Rotor Inertia g.cm²	引线数 Lead Wire NO.	重量 Weight Kg
57HS41-2504A	41	2.5	1.1	2.4	0.55	174	4	0.45
57HS51-2004A	51	2.0	1.3	4	0.8	257	4	0.64
57HS56-3004A	56	3.0	1.1	3.5	1.2	300	4	0.7
57HS64-4004A	64	4.0	0.6	1.7	1.4	390	4	0.85
57HS76-3004A	76	3.0	0.5	2.4	1.5	514	4	1
57HS84-3004A	84	3.0	0.57	2.8	1.5	578	4	1.15
57HS100-4204A	100	4.2	0.75	3.4	2.4	758	4	1.25
57HS115-4204A	112	4.2	0.8	3.8	2.5	856	4	1.4

电机机械尺寸
DIMENSIONS UNIT=MM

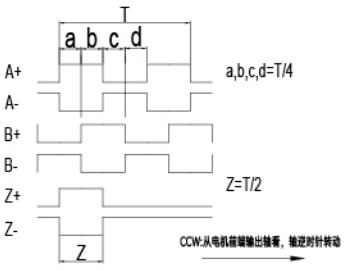


电机接线图
WIRING DIAGRAM



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

输出波形
OUTPUT WAVEFORM



分辨率：500线/512线/1000线/1024线/2000线

Resolution: 500 PPR/521 PPR/1000 PPR/1024 PPR/2000 PPR

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，也可以增配带轮、偏心减速箱和行星减速箱、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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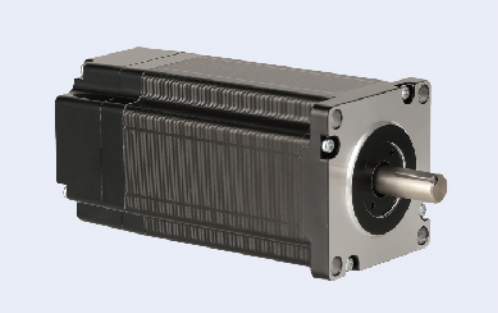
注意事项：电机安装时务必使用安装止口定位，严格保证电机输出轴与负载的同心度，电机正常工作时表面温度不允许超过85°C

Notes: When installing the motor, position it via the mounting spigot. Ensure strict concentricity between the motor output shaft and the load. The surface temperature of the motor shall not exceed 85°C during normal operation.

60HS 1.8°闭环步进电机

NEMA 24 1.8°CLOSED-LOOP STEPPER MOTOR

ZZMOTOR



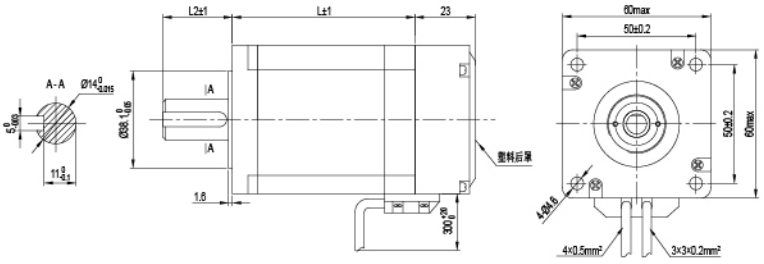
电气性能参数
ELECTRICAL SPECIFICATIONS

步矩角精度 Step Accuracy	±5%(整步无负载, full step, no load)
温升 Temperature	50K Max
工作环境温度 Ambient Temperature	-20°C~+50°C
绝缘电阻 Insulation Resistance	100MΩMin 500VC DC
介电强度 Dielectric Strength	600VAC/1S
绝缘等级 Insulation Class	B,130°C

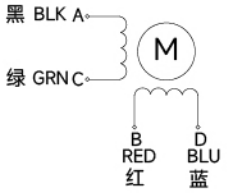
常规指标及参数
COMMON RATINGS & SPECIFICATIONS

电机型号 Model	机身长 Length L mm	相电流 Phase Current A	相电阻 Phase Resistance Ω	相电感 Phase Inductance mH	静转矩 Holding Torque N.m	转子惯量 Rotor Inertia g.cm²	引线数 Lead Wire NO.	重量 Weight Kg
60HS56-4204A	56	4.2	0.4	1.6	1.25	478	4	0.58
60HS65-2804A	65	2.8	0.95	2.5	1.4	590	4	0.58
60HS88-4204A	88	4.2	0.85	2.8	2.5	987	4	1.4
60HS100-4204A	100	4.2	0.8	3.0	2.8	1163	4	1.6

电机机械尺寸
DIMENSIONS UNIT=MM

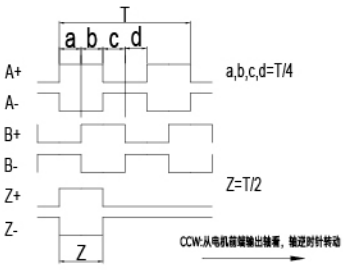


电机接线图
WIRING DIAGRAM



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

输出波形
OUTPUT WAVEFORM



分辨率：500线/512线/1000线/1024线/2000线

Resolution: 500 PPR/521 PPR/1000 PPR/1024 PPR/2000 PPR

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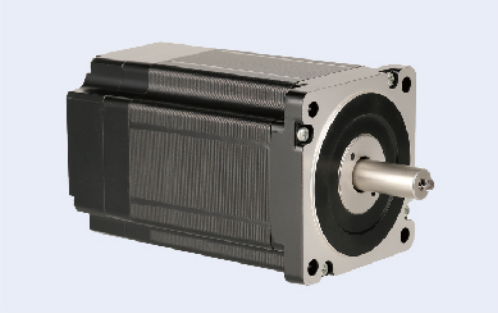
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86HS 1.8°闭环步进电机

NEMA 34 1.8°CLOSED-LOOP STEPPER MOTOR

ZZMOTOR



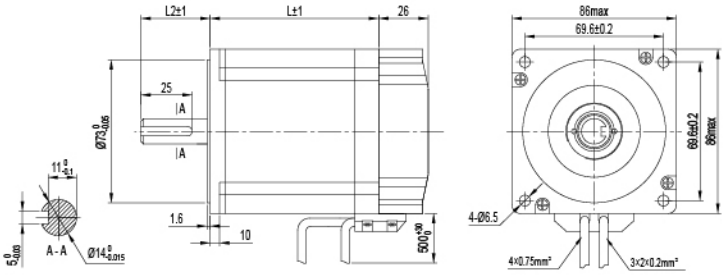
电气性能参数
ELECTRICAL SPECIFICATIONS

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温升 Temperature	50K Max
工作环境温度 Ambient Temperature	-20°C~+50°C
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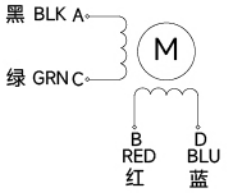
常规指标及参数
COMMON RATINGS & SPECIFICATIONS

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86HSA68-4004A	68	4.0	0.63	3.2	3.2	1574	4	1.85
86HSA80-5004A	80	5.0	0.38	3.5	4.5	2120	4	2.5
86HSA98-6004A	98	6.0	0.5	5.0	6.8	3110	4	3.1
86HSA118-6004A	118	6.0	0.6	6.8	8.5	3970	4	3.75
86HSA128-5004A	128	5.0	0.6	7.0	9.0	4540	4	4.25
86HSA158-6004A	158	6.0	0.73	8.0	11.0	5820	4	5.2

电机机械尺寸
DIMENSIONS UNIT=MM

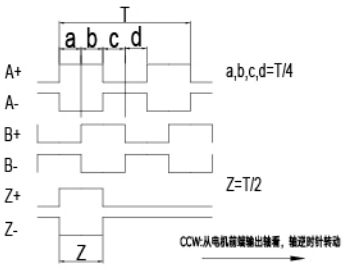


电机接线图
WIRING DIAGRAM



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