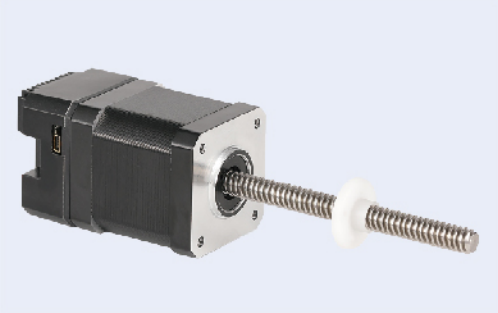
# 外径42mm 1.8°开环一体式丝杆步进电机

NEMA 17 1.8° OPEN-LOOP INTEGRATED LEAD SCREW STEPPER MOTOR

ZZMOTOR



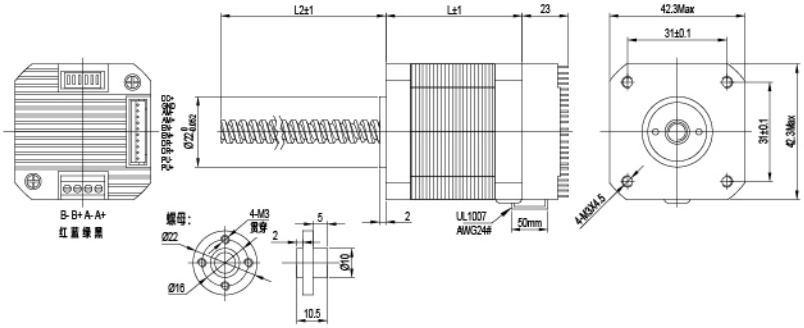
## 电气性能参数
ELECTRICAL SPECIFICATIONS

| | |
|---|---|
| ● 步矩角精度 Step Accuracy | ±5% |
| ● 温升 Temperature | 80K 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 | 500VAC 1 minute |
| ● 绝缘等级 Insulation Class | B,130°C |

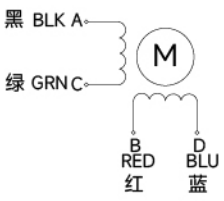
## 常规指标及参数
COMMON RATINGS & SPECIFICATIONS

| 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 |
|---|---|---|---|---|---|---|---|---|
| 42HSL34-1704A | 34 | 1.7 | 2.0 | 2.8 | 0.30 | 34 | 4 | 0.22 |
| 42HSL40-1704A | 40 | 1.7 | 2.2 | 3.8 | 0.40 | 54 | 4 | 0.28 |
| 42HSL48-1704A | 48 | 1.7 | 3.1 | 5.0 | 0.50 | 68 | 4 | 0.35 |
| 42HSL60-1704A | 60 | 1.7 | 2.1 | 6.2 | 0.75 | 80 | 4 | 0.48 |

## 电机机械尺寸
DIMENSIONS UNIT=MM




## 电机接线图
WIRING DIAGRAM




## 直线电机丝杆规格选型表
ABLE OF SELECTION FOR LINEAR MOTOR SCREW SPECIFICATIONS

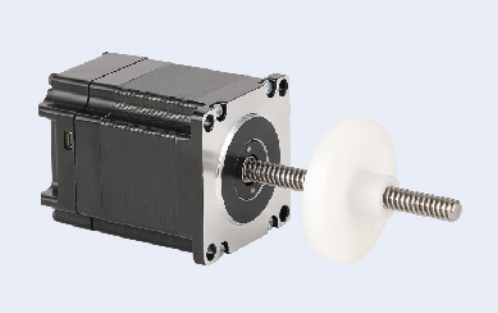
| 丝杆直径 Screw Diameter mm | 导程 Screw Lead mm | 步长 Step Length mm | 丝杆长度 Screw Length:mm L2 |
|---|---|---|---|
| Tr6.35 | 3.175 | 0.015875 | 可定制 Customized |
| Tr6.35 | 2 | 0.01 | |
| Tr6.5 | 1 | 0.005 | |
| Tr8 | 2 | 0.01 | |
| Tr8 | 4 | 0.02 | |
| Tr8 | 8 | 0.04 | |

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.

# 外径57mm 1.8°开环一体式丝杆步进电机

NEMA 23 1.8° OPEN-LOOP INTEGRATED LEAD SCREW STEPPER MOTOR

ZZMOTOR



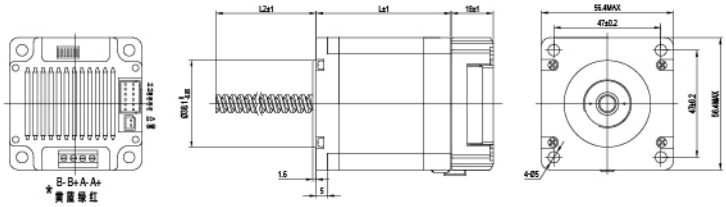
## 电气性能参数
ELECTRICAL SPECIFICATIONS

| | |
|---|---|
| 步矩角精度 Step Accuracy | ±5% |
| 温升 Temperature | 80K 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 | 500VAC 1 minute |
| 绝缘等级 Insulation Class | B,130°C |

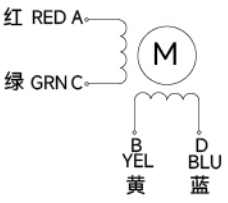
## 常规指标及参数
COMMON RATINGS & SPECIFICATIONS

| 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 |
|---|---|---|---|---|---|---|---|---|
| 57HSL41-2504A | 41 | 2.5 | 1.1 | 2.4 | 0.55 | 174 | 4 | 0.45 |
| 57HSL51-2004A | 51 | 2.0 | 1.3 | 4 | 0.8 | 257 | 4 | 0.64 |
| 57HSL56-3004A | 56 | 3.0 | 1.1 | 3.5 | 1.2 | 300 | 4 | 0.7 |
| 57HSL64-4004A | 64 | 4.0 | 0.6 | 1.7 | 1.4 | 390 | 4 | 0.85 |
| 57HSL76-3004A | 76 | 3.0 | 0.5 | 2.4 | 1.5 | 514 | 4 | 1 |
| 57HSL84-3004A | 84 | 3.0 | 0.57 | 2.8 | 1.5 | 578 | 4 | 1.15 |
| 57HSL100-4204A | 100 | 4.2 | 0.75 | 3.4 | 2.4 | 758 | 4 | 1.25 |
| 57HSL115-4204A | 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




## 直线电机丝杆规格选型表
ABLE OF SELECTION FOR LINEAR MOTOR SCREW SPECIFICATIONS

| 丝杆直径 Screw Diameter mm | 导程 Screw Lead mm | 步长 Step Length mm | 丝杆长度 Screw Length:mm L2 |
|---|---|---|---|
| Tr6.35 | 3.175 | 0.015875 | 可定制 Customized |
| Tr6.35 | 2 | 0.01 | |
| Tr6.5 | 1 | 0.005 | |
| Tr8 | 2 | 0.01 | |
| Tr8 | 4 | 0.02 | |
| Tr8 | 8 | 0.04 | |

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.