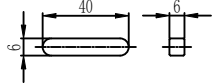


|    |   |   |   |   |   |   |   |   |   |   |   |   |               |   |   |    |   |
|----|---|---|---|---|---|---|---|---|---|---|---|---|---------------|---|---|----|---|
| A  | B | C | D | E | F | G | H | I | J | K | L | M | N             | O | P |    |   |
| 1  |   |   |   |   |   |   |   |   |   |   |   |   |               |   |   | 1  |   |
| 2  |   |   |   |   |   |   |   |   |   |   |   |   |               |   |   | 2  |   |
| 3  |   |   |   |   |   |   |   |   |   |   |   |   |               |   |   | 3  |   |
| 4  |   |   |   |   |   |   |   |   |   |   |   |   |               |   |   | 4  |   |
| 5  |   |   |   |   |   |   |   |   |   |   |   |   |               |   |   | 5  |   |
| 6  |   |   |   |   |   |   |   |   |   |   |   |   |               |   |   | 6  |   |
| 7  |   |   |   |   |   |   |   |   |   |   |   |   |               |   |   | 7  |   |
| 8  |   |   |   |   |   |   |   |   |   |   |   |   |               |   |   | 8  |   |
| 9  |   |   |   |   |   |   |   |   |   |   |   |   |               |   |   |    |   |
| 10 |   |   |   |   |   |   |   |   |   |   |   |   |               |   |   | 10 |   |
| A  | B | C | D | E | F | G | H | I | J | K | L | M | 旧物料编码: 9.7857 |   | O | P  | A |

|                         |               |                   |          |                    |                                                                                     |               |
|-------------------------|---------------|-------------------|----------|--------------------|-------------------------------------------------------------------------------------|---------------|
| 引线名称<br>Lead Name       | 引线号<br>Pin NO | 信号定义<br>Defintion | 颜色Colour | 线径Wire<br>Diameter | 连接器型号<br>Connector<br>Models                                                        | 备注<br>Remarks |
| 动力线<br>Power<br>Wire    | 1             | U                 | 白 WH     | 8 AWG              |  |               |
|                         | 2             | V                 | 红 RD     |                    |                                                                                     |               |
|                         | 3             | W                 | 黑 BK     |                    |                                                                                     |               |
|                         | 4             | PE                | 黄绿 YE/GN |                    |                                                                                     |               |
| 反馈线<br>Feedback<br>Wire | 1             | DC+5V             | 红 RD     | 28 AWG             |  |               |
|                         | 2             | GND               | 黑 BK     |                    |                                                                                     |               |
|                         | 3             | NC                | NC       |                    |                                                                                     |               |
|                         | 4             | U                 | 棕 BN     |                    |                                                                                     |               |
|                         | 5             | /U                | 棕黑 BN/BK |                    |                                                                                     |               |
|                         | 6             | Z                 | 黄 YE     |                    |                                                                                     |               |
|                         | 7             | B                 | 绿 GN     |                    |                                                                                     |               |
|                         | 8             | A                 | 蓝 BU     |                    |                                                                                     |               |
|                         | 9             | W                 | 白 WH     |                    |                                                                                     |               |
|                         | 10            | V                 | 灰 GY     |                    |                                                                                     |               |
|                         | 11            | /Z                | 黄黑 YE/BK |                    |                                                                                     |               |
| 12                      | /B            | 绿黑 GN/BK          |          |                    |                                                                                     |               |
| 13                      | /A            | 蓝黑 BU/BK          |          |                    |                                                                                     |               |
| 14                      | /W            | 白黑 WH/BK          |          |                    |                                                                                     |               |
| 15                      | /V            | 灰黑 GY/BK          |          |                    |                                                                                     |               |

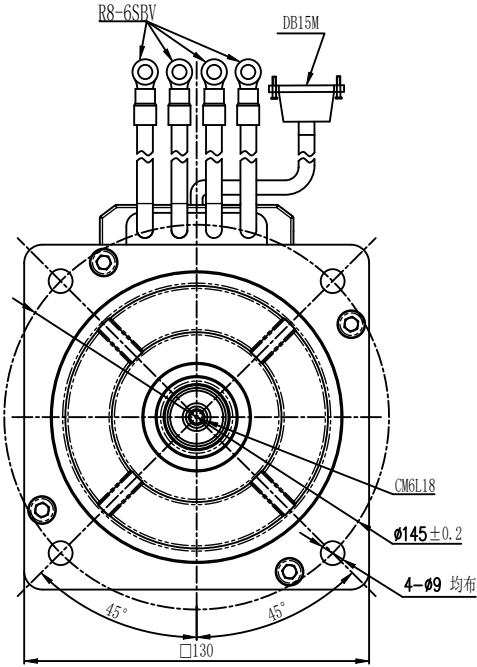
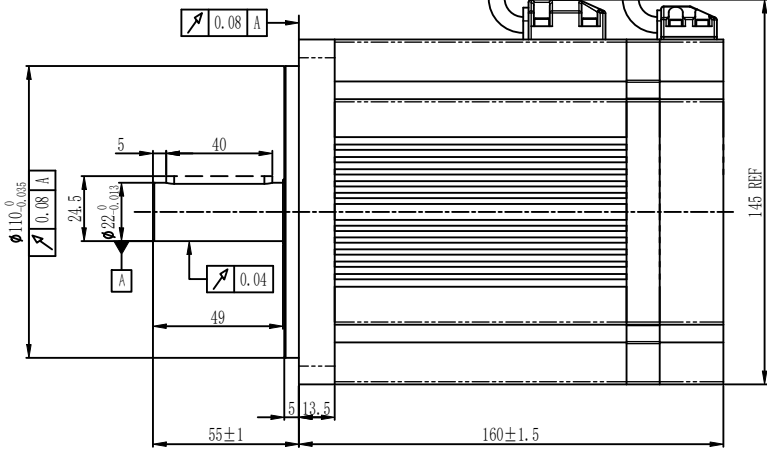
|                                       |      |      |                                                                                       |                    |                 |            |             |         |            |                        |                                                                                       |  |                                                                                                   |  |
|---------------------------------------|------|------|---------------------------------------------------------------------------------------|--------------------|-----------------|------------|-------------|---------|------------|------------------------|---------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------|--|
| 未注线性公差<br>Undeclared linear tolerance |      |      |                                                                                       |                    |                 |            | 批准Approve   | HH      | 2026/07/23 | 料号Part No              | 3050400190                                                                            |  | 产品外形图Product Outline Drawing                                                                      |  |
| 0.5~3                                 | ±0.2 | V1.3 |  | 更新TN曲线以及图框         | PCR_SMM_2607161 | 2026/07/23 | 标准化Standard | ZY      | 2026/07/23 | 型号Model                | SMC130D-0250-30WAK-4D5H-2                                                             |  | Kinco步科<br>步科股份: 688160                                                                           |  |
| >3~6                                  | ±0.3 | V1.2 |  | 5.5法兰高度改为5         | ECN240169       | 2024/08/02 | 工艺Technique | JKK     | 2026/07/23 | 版本Version              | V1.3                                                                                  |  | The copyright of this drawing belongs to our company and unauthorized dissemination is prohibited |  |
| >6~30                                 | ±0.5 | V1.0 | /                                                                                     | 原始版本               | 新发布             | 2022/03/01 | 审核Check     | CFF     | 2026/07/23 | 比例Scale                | 1:1                                                                                   |  | 页码Page No                                                                                         |  |
| >30~120                               | ±0.8 |      |                                                                                       |                    |                 |            | 设计Design    | ZY      | 2026/07/23 | 投影法                    |  |  | Sheet 1 OF 2                                                                                      |  |
| >120~400                              | ±1.2 | VER  | Mark                                                                                  | 版本记录Version record | 归档方式ECN No      | 归档日期Date   | 评审Review    | 姓名Names | 日期Date     | 投影方法Projection methods |                                                                                       |  | A1                                                                                                |  |

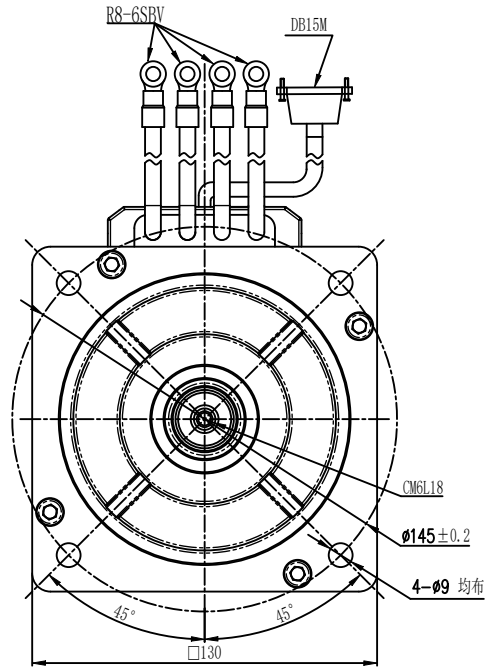
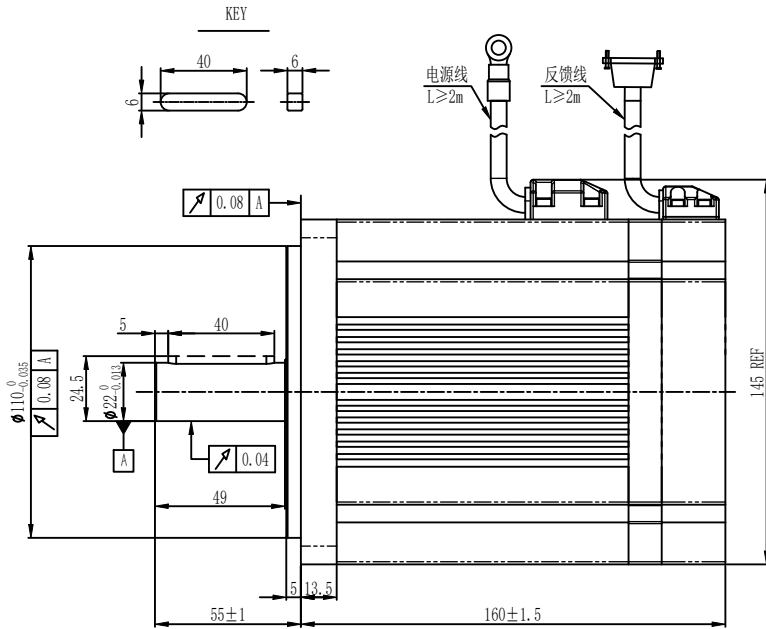
KEY



电源线  
L≥2m

反馈线  
L≥2m





|    |   |   |   |   |   |   |   |   |   |   |   |   |               |   |    |   |   |
|----|---|---|---|---|---|---|---|---|---|---|---|---|---------------|---|----|---|---|
| A  | B | C | D | E | F | G | H | I | J | K | L | M | N             | O | P  |   |   |
| 1  |   |   |   |   |   |   |   |   |   |   |   |   |               |   | 1  |   |   |
| 2  |   |   |   |   |   |   |   |   |   |   |   |   |               |   | 2  |   |   |
| 3  |   |   |   |   |   |   |   |   |   |   |   |   |               |   | 3  |   |   |
| 4  |   |   |   |   |   |   |   |   |   |   |   |   |               |   | 4  |   |   |
| 5  |   |   |   |   |   |   |   |   |   |   |   |   |               |   | 5  |   |   |
| 6  |   |   |   |   |   |   |   |   |   |   |   |   |               |   | 6  |   |   |
| 7  |   |   |   |   |   |   |   |   |   |   |   |   |               |   | 7  |   |   |
| 8  |   |   |   |   |   |   |   |   |   |   |   |   |               |   | 8  |   |   |
| 9  |   |   |   |   |   |   |   |   |   |   |   |   |               |   | 9  |   |   |
| 10 |   |   |   |   |   |   |   |   |   |   |   |   |               |   | 10 |   |   |
| A  | B | C | D | E | F | G | H | I | J | K | L | M | 旧物料编码: 9.7857 |   | O  | P | A |

电机性能参数Motor performance parameters

| 参数项Parameter item              | 单位Unit | 参数值Parameter values      |
|--------------------------------|--------|--------------------------|
| 极数Number of poles              | /      | 8                        |
| 额定功率Rated Power                | W      | 2500                     |
| 工作电压Operating supply voltage   | V      | 48VDC                    |
| 额定电流Rated Current              | A      | 61                       |
| 额定转矩Rated Torque               | N.m    | 7.96                     |
| 额定转速Rated Speed                | rpm    | 3000                     |
| 最大电流Maximum current            | A      | 191                      |
| 最大转矩Maximum torque             | N.m    | 23.89                    |
| 最大转速Maximum speed              | rpm    | 3700                     |
| 连续静态电流Standstill current       | A      | 67.1                     |
| 连续静态转矩Standstill torque        | N.m    | 8.76                     |
| 转动惯量Rotational inertia         | kg.cm2 | 17.1                     |
| 线电阻Resistance line-line        | Ω      | 0.016                    |
| 线电感Inductance line-line        | mH     | 0.094                    |
| 反电动势常数EMF constant             | v/krpm | 8.5                      |
| 转矩常数Torque constant            | Nm/A   | 0.141                    |
| 电气时间常数Electrical time constant | ms     | 5.92                     |
| 机械时间常数Mechanical time constant | ms     | 2.37                     |
| 最大径向力Radial force Max          | N      | 900                      |
| 最大轴向力Axial force Max           | N      | 450                      |
| 电机重量Motor Weight               | kg     | 7.6                      |
| 绝缘等级Insulation Class           | /      | F                        |
| 防护等级Protection Degree          | /      | IP65, shaft sealing IP54 |
| 工作环境温度Working Temperature      | /      | 0~40℃                    |

TN 曲线图  
Performance Curve

|                                       |           |
|---------------------------------------|-----------|
| 编码器性能参数Encoder performance parameters |           |
| 参数项Parameter item                     | 参数值Values |
| 类型Type                                | 增量磁编      |
| 分辨率Resolution                         | 2500ppr   |

未注线性公差  
Undeclared linear tolerance

|          |      |          |                    |                 |            |             |         |            |                           |                           |                                                                                                                                                                                                                 |
|----------|------|----------|--------------------|-----------------|------------|-------------|---------|------------|---------------------------|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0.5~3    | ±0.2 | V1.3     | 更新TN曲线以及图框         | PCR_SMM_2607161 | 2026/07/23 | 批准Approve   | HH      | 2026/07/23 | 料号Part No                 | 3050400190                | 产品外形图Product Outline Drawing<br><b>Kinco步科</b><br>步科股份: 688160<br><small>The copyright of this drawing belongs to our company and unauthorized dissemination is prohibited</small><br>页码Page No Sheet 2 OF 2 A1 |
| >3~6     | ±0.3 | V1.2     | 5.5法兰高度改为5         | ECN240169       | 2024/08/02 | 标准化Standard | ZY      | 2026/07/23 | 型号Model                   | SMC130D-0250-30WAK-4D5H-2 |                                                                                                                                                                                                                 |
| >6~30    | ±0.5 | V1.2     | 原始版本               | 新发布             | 2022/03/01 | 工艺Technique | JKK     | 2026/07/23 | 版本Version                 | V1.3                      |                                                                                                                                                                                                                 |
| >30~120  | ±0.8 | V1.0     | 原始版本               | 新发布             | 2022/03/01 | 审核Check     | CFF     | 2026/07/23 | 比例Scale                   | 1:1                       |                                                                                                                                                                                                                 |
| >120~400 | ±1.2 | VER Mark | 版本记录Version record | 归档方式ECN No      | 归档日期Date   | 评审Review    | 姓名Names | 日期Date     | 投影法<br>Projection methods |                           |                                                                                                                                                                                                                 |