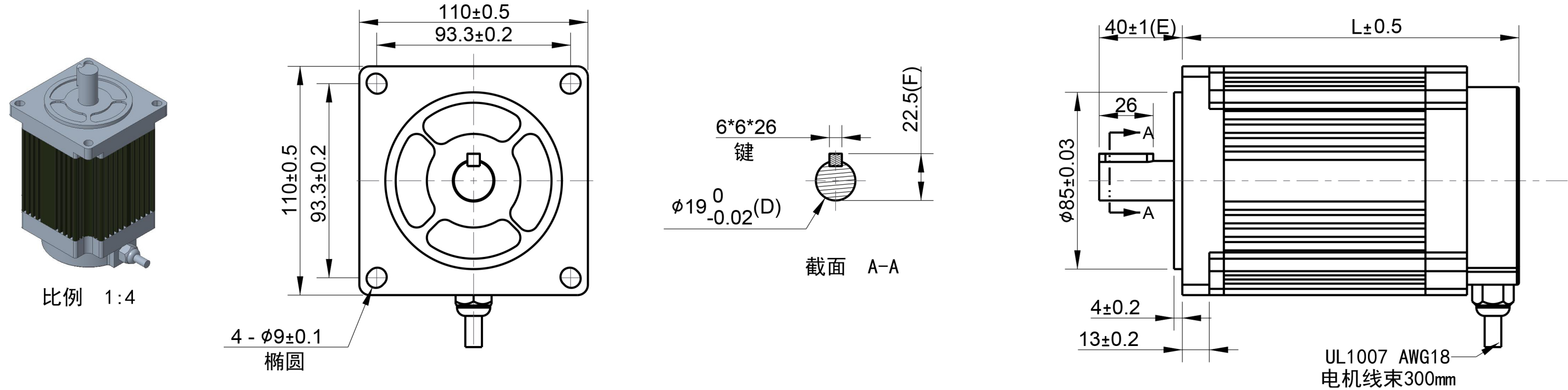


电机外形尺寸图 (DIMENSIONS)



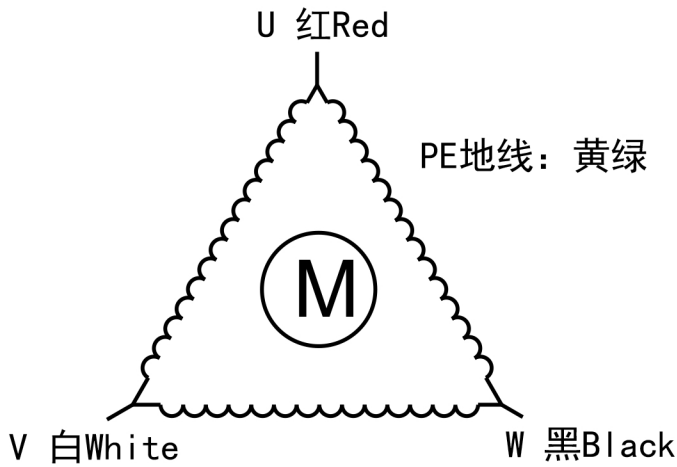
技术规格 (SPECIFICATION)

| 型号<br>Model      | 相数<br>Phase | 步距角 (°)<br>Step Angle | 保持转矩<br>(N. M)<br>Torque | 额定电流 (A)<br>Rated Current | 电机重量<br>(kg)<br>Weight | 转动惯量<br>(kg. cm <sup>2</sup> )<br>Rotor Inertia | 编码精度<br>CPR | 机身長 (L)<br>Length | 轴径 (D)<br>Shaft Dia | 轴长 (E)<br>Shaft L | 键高 (F)<br>HEIGHT |
|------------------|-------------|-----------------------|--------------------------|---------------------------|------------------------|-------------------------------------------------|-------------|-------------------|---------------------|-------------------|------------------|
| ML3110-137(8N.m) | 3           | 1.2                   | 8                        | 4.3                       | 8.6                    | 8.6                                             | 1000        | 137               | 19                  | 40                | 22.5             |

通用属性 (ATTRIBUTE)

| 项目 ITEM                                   | 参数 PARAMETERS             |
|-------------------------------------------|---------------------------|
| 步距角精度 Precision of Step Angle             | $\pm 5\%$                 |
| 电阻精度 Precision of Resistance              | $\pm 10\%$                |
| 电感精度 Precision of Inductance              | $\pm 20\%$                |
| 温升 Temperature                            | 80 °C MAX                 |
| 环境温度/湿度 Enviroment Temp&Humidity          | -10 ~ +50 °C , 85%        |
| 绝缘电阻 Insulation Resistance                | 100 M $\Omega$ Min@500VDC |
| 耐电压 Voltage Resistance                    | 1 minute @ 500VAC-5mA     |
| 转轴径向跳动<br>Dynamic Radial Runout Tolerance | 0.02mm Max @ 450g         |
| 转轴轴向跳动<br>Dynamic axial Runout Tolerance  | 0.08mm Max @ 450g         |

电气接线图 (Wiring Diagram)



| TOLERANCE UNLESS OTHERWISE SPECIFIED                                                                                                                                                                                                               |  | 材料符合RoHS2.0指令要求<br>All Material are to be RoHS2.0 Compliant |    |          | 深圳市鸣雷智能控制有限公司<br>Shenzhen thunder intelligent Control Co.,Ltd<br>公司官网 Company website: <a href="http://www.szmlsf.com">www.szmlsf.com</a> |              |             |      |             |        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------|----|----------|-------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------|------|-------------|--------|
| GB/T1804-m eqv<br>ISO 2768-1 class m<br>$\leq 6 \pm 0.1$<br>$> 6 \sim 30 \pm 0.2$<br>$> 30 \sim 120 \pm 0.3$<br>$> 120 \sim 400 \pm 0.5$<br>$> 400 \sim 1000 \pm 0.8$<br>$> 1000 \sim 2000 \pm 1.2$<br>Angles: $\pm 0.5^\circ$<br>Chamfer: $\pm 5$ |  | ALL UNITS ARE IN MM                                         |    |          | 名称<br>TITLE                                                                                                                               | 110步进电机 (三相) |             |      |             |        |
| 第三视角画法<br>3RD ANGLE<br>PROJECTION                                                                                                                                                                                                                  |  | 设计<br>DESIGN                                                | TF | 20201027 | 图号<br>DWG.NO.                                                                                                                             | ML3110-137   |             |      |             |        |
|                                                                                                                                                                                                                                                    |  | 审核<br>CHECK                                                 | TF | 20201028 | 材料<br>MATERIAL                                                                                                                            | 组合材料         |             | SIZE | A3          |        |
|                                                                                                                                                                                                                                                    |  | 批准<br>APPROVE                                               |    |          | 版本<br>REV                                                                                                                                 | A            | 比例<br>SCALE | 1:2  | 页数<br>SHEET | 1 OF 1 |