

Direction of Rotation

| STEP | A | B | C | D |
|------|---|---|---|---|
| 1    | + | + | - | - |
| 2    | - | + | + | - |
| 3    | - | - | + | + |
| 4    | + | - | - | + |

CCW

↓

CCW

↑

从安装面看为顺时针方向  
Clockwise view from  
mounting side

LEAD SCREW MOTOR  
08E2004E2-50-G  
XXXXXXXX

批次号

备注Note:  
 螺纹丝杆及螺母在正常使用过程中,  
 若有少许粉尘掉落为正常现象。  
 It's normal phenomenon if there is a little dust  
 fall off when using the lead screw and nut.

Technical drawing of the UL1061 connector showing three views: front, side, and detail.

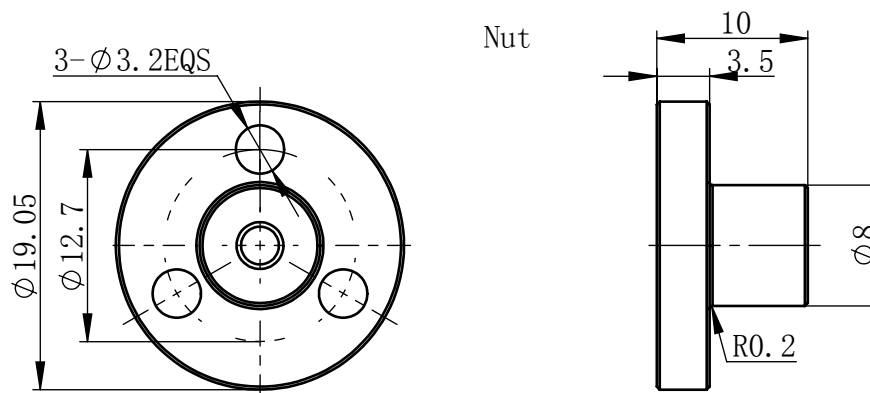
**Front View:** Shows a square connector body with a circular contact area. Dimensions include a maximum width of 20.3 mm, a contact diameter of 15.4 mm with a tolerance of  $\pm 0.2$  mm, and a total height of 20.3 mm. The cable is labeled UL1061 AWG28 with a length of  $300 \pm 10$  mm. The contact area is specified as 4-M2 with a minimum depth of 2.5 mm.

**Side View:** Shows the profile of the connector. Dimensions include a maximum width of 20.3 mm with a tolerance of  $\pm 1$  mm, a contact diameter of 15 mm with a tolerance of  $-0.05$  mm, and a total height of 50 mm with a tolerance of  $\pm 1$  mm. The contact area is labeled "Logo" and "Label".

**Detail View:** Shows the internal components, including a nut and a cable. The cable is labeled 0.138-0.024P-0.024L-ACME. The nut is labeled "Nut". The cable diameter is  $\phi 2.5$  mm with a tolerance of  $-0.005$  to  $-0.025$  mm. The cable length is 2.5 mm with a tolerance of  $\pm 0.1$  mm.

|    |                       |                                |
|----|-----------------------|--------------------------------|
| 1  | 相数 Number Of Phase    | 2                              |
| 2  | 步长 Linear Travel/Step | 0.003048 mm (1.8° )            |
| 3  | 额定电压Rated Voltage     | 3.4 V DC                       |
| 4  | 额定电流 Rated Current    | 0.4 Amp                        |
| 5  | 额定推力 Rated Thrust     | 6 N(@300rpm, rated current)    |
| 6  | 相电阻 Phase Resistance  | 8.5 ohm $\pm$ 10% (20℃)        |
| 7  | 相电感 Phase Inductance  | 2.7 mH $\pm$ 20% (1kHz 1V rms) |
| 8  | 转子惯量 Rotor Inertia    | 25 gcm <sup>2</sup>            |
| 9  | 重量 Weight             | 0.05 Kg                        |
| 10 | 绝缘等级 Insulation Class | B(130℃)                        |
| 11 | 丝杠直径 Screw Diameter   | 3.505 mm                       |
| 12 | 丝杠导程 Lead             | 0.6096 mm                      |

|    |      |    |    |
|----|------|----|----|
| 版本 | 变更说明 | 签名 | 日期 |
|----|------|----|----|



|                                                                                                                                                                                                                                                                                          |                 |    |                                                                                                                                |                                                                                                                                                                                                                    |                 |                |                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----|--------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------|---------------------|
| <div>未标注线性尺寸和公差<br/>Tolerance for linear and dimensions<br/>without individual tolerance indications<br/>GB/T 1804-M eqv ISO 2768-1:M</div> <div>未标注形状与位置尺寸公差<br/>Geometrical tolerance for features<br/>without individual tolerance indications<br/>GB/T 1184-K eqv ISO 2768-2:K</div> | 设计<br>Design    |    | <div></div> <div>First Angle Method</div> | <div></div> <div>WWW.HDBMOTORS.COM</div> |                 |                |                     |
|                                                                                                                                                                                                                                                                                          | 校核<br>Check     |    |                                                                                                                                |                                                                                                                                                                                                                    |                 |                |                     |
|                                                                                                                                                                                                                                                                                          | 工艺<br>Process   |    |                                                                                                                                |                                                                                                                                                                                                                    |                 |                |                     |
| <div></div> <div>I. 请避免螺母脱离丝杠<br/>Keep nut on screw.</div> <div>II. 非专业人士请勿拆解电机<br/>Avoide disassembly without<br/>qualification.</div>                                                               | 材料<br>Material  | 总图 | 比例<br>Scale                                                                                                                    | 零件名<br>Part Name                                                                                                                                                                                                   | 直线步进电机          |                |                     |
|                                                                                                                                                                                                                                                                                          | 标准化<br>Standard |    |                                                                                                                                | 2:1                                                                                                                                                                                                                | 型号<br>Model NO. | 08E2004E2-50-G |                     |
|                                                                                                                                                                                                                                                                                          | 批准<br>Approve   |    |                                                                                                                                | Page 1 of 1                                                                                                                                                                                                        | 版本<br>Version   | A0             | 物料号<br>Material NO. |