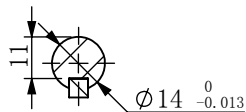


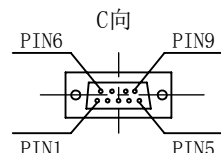
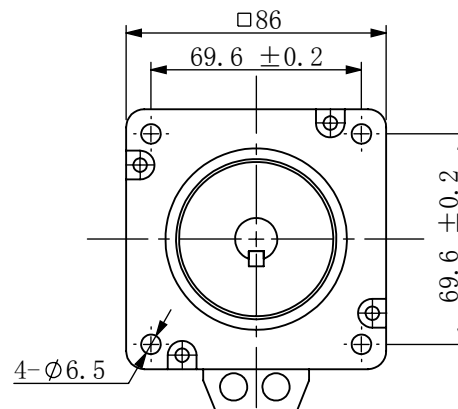
图号/DWG NO.  
86HSM78D-K1440-002



Technical drawing of the DB-9P connector assembly. The drawing shows a side view of the connector with dimensions in millimeters. The dimensions are: 40 ± 0.5, 105 ± 1, 0 -0.05, 60, 25, 1.5, 10, 300 ± 10, and 300 ± 10. The drawing also includes labels for the connector type (DB-9P母头) and the cable length (线长300 ± 10).

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| 步 距 角/STEP ANGLE                          | 1.8° ±5%                                      |
| 相 数/NO. OF PHASES                         | 2                                             |
| 额定电压/RATED VOLTAGE                        | 2.46V                                         |
| 额定电流/RATED CURRENT                        | 6.0A                                          |
| 电 阻/RESISTANCE                            | 0.41ohm±10%    AT25℃                          |
| 电 感/INDUCTANCE                            | 2.82mH±20%    AT 1kHz, 1Vrms                  |
| 保持力矩/HOLDING TORQUE                       | 4.5N. m                                       |
| 运行力矩/(AT —PPS)<br>RUNNING TORQUE(AT —PPS) | ——以上/MIN<br>(——V. DC, ——A/相(PHASE), ——相励磁/EX) |
| 绝缘耐压/DIELECTRIC STRENGTH                  | 500V A. C 1分钟/MINUTE                          |
| 绝缘电阻/INSULATION RESISTANCE                | 100MΩ 以上/MIN.                                 |
| 绝缘等级/INSULATION CLASS                     | CLASS B                                       |
| 温度上升/TEMPERATURE RISE                     | 80K MAX.                                      |
| 转子惯量/ROTOR INERTIA                        | 1400g. cm <sup>2</sup>                        |
| 重 量/WEIGHT                                | 约/APPROX. 2460克/g                             |
| 允许轴向负载/ALLOWABLE THRUST LOAD              | 10N                                           |
| 允许径向负载/ALLOWABLE RADIAL LOAD              | 100N(轴端/ON THE SHAFT END)                     |
| 运行环境温度/OPERATION AMBIENT TEMP.            | -20℃——+50℃                                    |
| 运行环境湿度/OPERATION AMBIENT HUM.             | 15%——90%                                      |
| 寿 命/LIFE                                  | 5000小时/HOURS                                  |

1. 额定电流：两相同时通电/AT RATED CURRENT, TWO PHASES ON.  
2. 热阻法：电机安装在84\*84\*15的铝板上，电机线圈两端通额定电压，OPPS /MEASURED BY RESISTANCE METHOD. MOUNT WITH ALUMINUM HEAT SINK 84\*84\*15 AT TWO WINDING BE EXCITED BY RATED VOLTAGE, OPSS, 2PHASE ON.  
3. 寿命测试条件：整步，运行速度为500PPS，轴承的表面温度不超过70° C  
LIFE TEST CONDITION: 2PHASE EXCITING, FULL STEP, AT 500PPS. STARTING PULSE, BEARING TEMPERATURE SHOULD BE 70° C MAX.



|    |     |     |    |     |     |    |    |    |    |
|----|-----|-----|----|-----|-----|----|----|----|----|
| 序号 | 1   | 2   | 3  | 4   | 5   | 6  | 7  | 8  | 9  |
| 定义 | EA+ | EA- | NC | EB+ | EB- | NC | NC | 5V | GN |
| 线色 | 棕   | 白   | \  | 绿   | 黄   | \  | \  | 红  | 蓝  |

励磁顺序(2相励磁)VS. 旋转方向  
EXCITING SEQUENCE(TWO PHESES)  
VS. DIRECTION OF ROTATION

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

从安装面看为顺时针方向  
CLOCKWISE VIEW FROM MOUNTING SIDE

已受控

|                                             |  |                                   |            |                                  |                 |                            |                                                                                                                              |         |      |   |            |     |
|---------------------------------------------|--|-----------------------------------|------------|----------------------------------|-----------------|----------------------------|------------------------------------------------------------------------------------------------------------------------------|---------|------|---|------------|-----|
| CONFIRMED&ACCEPTED BY CUSTOMER<br>(客户确认&接受) |  |                                   |            |                                  |                 |                            |                                                                                                                              |         |      |   |            |     |
|                                             |  |                                   |            |                                  |                 |                            |                                                                                                                              |         |      |   |            |     |
|                                             |  | COMPANY CHOP&SIGNATURE<br>(盖章&签名) |            |                                  |                 |                            |                                                                                                                              |         |      |   |            |     |
|                                             |  |                                   |            |                                  |                 |                            |                                                                                                                              |         |      |   |            |     |
| 一般公差<br>TOLERANCE                           |  | ±0.3/±3°                          | 版本<br>REV. | 年 月 日<br>DATE                    | 变更番号<br>ECR NO. | 变 更 内 容<br>REVISIONS       | 设计<br>BY                                                                                                                     | 备注 NOTE | REV. | A |            |     |
| 设计 /DESIGNED                                |  |                                   |            | 比例<br>SCALE                      |                 | 型 号 /MODEL<br><br>86CLST45 | 三视图<br>THIRD ANGL<br>PROJECTION<br><br> |         |      |   |            |     |
|                                             |  |                                   |            | 单位<br>UNIT                       | mm              |                            |                                                                                                                              |         |      |   |            |     |
| 审核 /CHECKED                                 |  |                                   |            | NINGBO SIMTACH AUTO TECH CO.,LTD |                 |                            |                                                                                                                              |         |      |   | 页<br>SHEET | 1/1 |