

符合RoHS指令要求  
CONFORM TO RoHS INSTRUCTIONS

# ◎步进电机规格书

SPECIFICATION FOR STEPPER MOTOR

上海四横电机制造有限公司

## ◎电气特性参数/ELECTRICAL PARAMETER

86BYGH3066-3303A

## ◎力矩曲线/MOMENT CURVE

驱动方式/DRIVING MODE: 恒流驱动/CONSTANT CURRENT DRIVE

驱动电压/DRIVING VOLTAGE: 24VDC

励磁方式/EXCITATION MODE: 2相/PHASES

备注: 电流峰值等于 $\sqrt{2}$ 倍的有效值

REMARK: PEAK CURRENT IS EQUAL TO  $\sqrt{2}$  TIMES EFFECTIVE VALUE

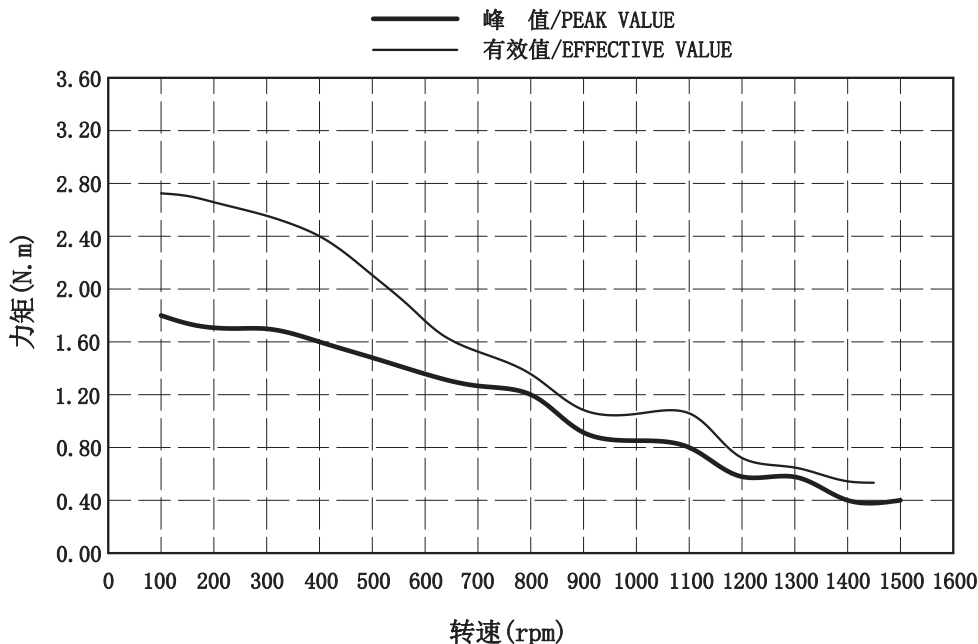
|                                        |                         |          |
|----------------------------------------|-------------------------|----------|
| 相 数 PHASES                             | 3                       |          |
| 步 进 角 STEP ANGEL                       | 1.8° ±5%                |          |
| 步进角误差 STEP ANGEL ERRORS                | ±0.09°                  | 注释)3     |
| 额定电压 RATED VOLTAGE                     | 2.739 V                 |          |
| 额定电流 RATED CURRENT                     | 3.3 A                   |          |
| 电 阻 RESISTANCE                         | 0.83 ohm±10%            | at 20° C |
| 电 感 INDUCTANCE                         |                         | 注释)1     |
| 保持力矩 HOLDING TORQUE                    | 2.6 N.m                 | 注释)2     |
| 绝缘耐压 DIELECTRIC STRENGTH               | 500V A.C 1分钟/MINITE     | 注释)4     |
| 绝缘电阻 INSULATION RESISTANCE             | 100 MΩ 以上/MIN.          | 注释)5     |
| 绝缘等级 INSULATION CLASS                  | Class B                 |          |
| 温度上升 TEMPERATURE RISE                  | 80K MAX.                | 注释)6     |
| 转子惯量 ROTOR INERTIA                     | ≈1100g. cm <sup>2</sup> |          |
| 重 量 WEIGHT                             | ≈1700g                  |          |
| 最大轴向跳动 MAXIMUM AXIAL RUNOUT TOLERANCE  | 0.075mm (负载920g)        |          |
| 最大径向跳动 MAXIMUM RADIAL RUNOUT TOLERANCE | 0.025mm (负载450g)        |          |
| 使用环境温度 CONSERVE AMBIENT TEMP.          | 0° C——+50° C            |          |
| 使用环境湿度 CONSERVE AMBIENT HUM.           | 20%RH——90%RH            | 注释)8     |
| 保存环境温度 CONSERVE AMBIENT TEMP.          | -20° C——+70° C          |          |
| 保存环境湿度 CONSERVE AMBIENT HUM.           | 15%RH——95%RH            | 注释)8     |
| 使用寿命 SERVICE LIFE                      | 5000 小时/HOURS           | 注释)7     |

注释):

1. 在1k Hz 1Vrms条件下测试;
2. 在额定电流, 2相励磁下进行测试;
3. 不包括励磁误差2相励磁;
4. 在电机引线和铁芯之间加50HZ交流电压1分钟无异常, 漏电流小于3mA;
5. 在电机引线和铁芯之间加500V. D. C电压;
6. 额定电流无负载安装在铝板上使用电阻法测试;
7. 额定电流轴承温度低于80℃条件下进行寿命试验;
8. 表面无结霜;

Notes):

1. Testing at 1K hz 1 VRMS;
2. Test at rated current, 2-phase excitation;
3. Excluding excitation error 2 phase excitation;
4. Add 50 HZ AC voltage between motor lead and iron core for 1 minute without abnormal, leakage current less than 3 ma;
5. Add 500 v. between the motor lead and the iron core. D. C Voltage;
6. Rated current no load mounting on aluminum plate using resistance method;
7. Rated current bearing temperature below 80 ° C for Life Test;
8. No Frost on the surface;



|                                            |  |             |               |                 |                                         |                  |            |                                                                                       |   |
|--------------------------------------------|--|-------------|---------------|-----------------|-----------------------------------------|------------------|------------|---------------------------------------------------------------------------------------|---|
| CONFIRMED&ACCEPTED BY CUTOMER<br>(客户确认&接受) |  |             |               |                 |                                         | 型号/MODEL         |            |                                                                                       |   |
| COMPANY CHOP&SIGNATURE (盖章&签名)             |  |             |               |                 |                                         | 86BYGH3066-3303A |            |                                                                                       |   |
| 一般公差<br>TOLERANCE ±0.3/±3°                 |  | 版本<br>REV.  | 年 月 日<br>DATE | 变更番号<br>ECO NO. | 变 更 内 容<br>REVISIONS                    | 设计<br>BY         | 备 注 NOTE   | REV.                                                                                  | A |
| 设 计/DESIGNED                               |  | 比例<br>SCALE | 1:1           | 品 名<br>TITLE    | 步进电机规格书<br>STEPPING MOTOR SPECIFICATION |                  |            | 三视图<br>THIRD ANGLE<br>PROJECTION                                                      |   |
| 审 核/CHECKED                                |  | 单位<br>UNIT  | mm            |                 |                                         |                  |            |  |   |
| 上海四横电机制造有限公司                               |  |             |               |                 |                                         |                  | 页<br>SHEET | 1/1                                                                                   |   |

