

电机型号/MODEL:EC60TM3620150-EB

版本号: V1.0

| 基本参数/BASIC PARAMETERS                                     |                                                                                                               |                                                    |                                      |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|----------------------------------------------------|--------------------------------------|
| 额定功率(w):<br>Rated Output(w):                              | 150                                                                                                           | 极数:<br>Number of Poles:                            | 10                                   |
| 额定电压(v):<br>Rated Voltage(v):                             | DC36                                                                                                          | 耐热等级:<br>Vibration Class:                          | F                                    |
| 额定转速(rpm):<br>Rated Speed(rpm):                           | 2000                                                                                                          | 最高转速(rpm):<br>Max. Speed(rpm):                     | 2600                                 |
| 额定电流(Arms):<br>Rated Current(Arms):                       | 5.2±10%                                                                                                       | 瞬时最大电流(Arms):<br>Instantaneous Max. Current(Arms): | 10.4±10%                             |
| 额定扭矩(N.m):<br>Rated Torque(N.m):                          | 0.75                                                                                                          | 瞬时最大扭矩(N.m):<br>Instantaneous Peak Torque(N.m):    | 1.5                                  |
| 线电阻(Ω):<br>Line Resistance(Ω):                            | ±10%(25℃)                                                                                                     | 线电感(mH):<br>Line Inductance(mH):                   | ±20%(25℃)                            |
| 线反电势(V/krpm):<br>Line Back EMF.(V/krpm):                  | 8.6±10%                                                                                                       | 力矩系数(N.m/A):<br>Torque Coefficient(N.m/A):         | 0.14±10%                             |
| 转子惯量(Kg.m²x10⁻⁴):<br>Rotor Moment of Inertia(Kg.m²x10⁻⁴): | 0.6±10%                                                                                                       | 反馈元件:<br>Feedback Component:                       | 磁电增量式/Incremental Encoder,2500PPR    |
| 保持制动器扭矩(N.m):<br>Static Torque (N.m):                     | >2                                                                                                            | 保持制动器工作电压(V):<br>Rated Voltage(V):                 | DC24 0.4A                            |
| 绝缘电阻(MΩ):<br>Insulation Resistance(MΩ):                   | DC500V,>20MΩ                                                                                                  | 噪音(dB):<br>Noise(dB):                              | ≤60dB,无异响/NoneSpecial Noise          |
| 工作时间:<br>Time rating.:                                    | 连续<br>Continuous                                                                                              | 振动等级:<br>Vibration Class:                          | V 15                                 |
| 环境温度:<br>/Ambient Temperature:                            | -20~+40℃                                                                                                      | 环境湿度:<br>Ambient Humidity:                         | 20~80%不结露<br>20~ 80% No Condensation |
| 励磁方式:<br>Excitation:                                      | 永磁式<br>Permanent Magnet                                                                                       | 安装方式:<br>Mounting:                                 | 法兰式<br>Flange Method                 |
| 连接方式:<br>Drive Method:                                    | 直接连接<br>Direct Drive                                                                                          | 电机重量(Kg):<br>Weight(kg):                           | 1.75                                 |
| 保护方式:<br>Enclosure:                                       | 全封闭, 自冷IP54(IP65可选)(轴贯通部分除外)<br>Totally Enclosed, Self-cooled, IP54(IP65 optional) (except for shaft opening) |                                                    |                                      |
| 旋转方向:<br>Rotation Direction:                              | 从电机轴伸端看逆时针方向旋转(CCW)<br>Counterclockwise rotation(CCW)                                                         |                                                    |                                      |

※额定转矩表示安装在200x200x6的铝制散热板上且在环境温度40℃时的连续容许转矩值。/Rated torque is the continuous allowable torque at 40℃ with an Al heatsink of 200x200x6.

连接器/CONNECTORS

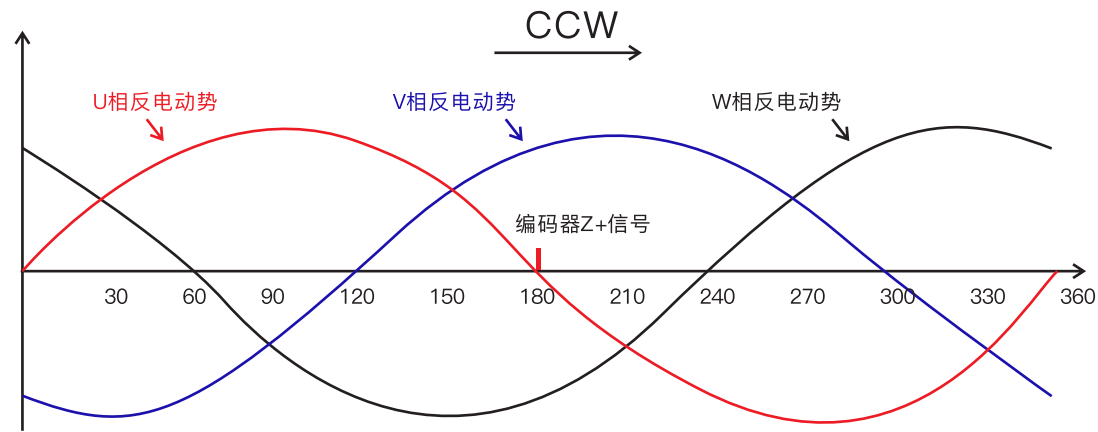
动力插座/Power Line Socket

|                      |    |   |   |   |           |           |
|----------------------|----|---|---|---|-----------|-----------|
| 颜色<br>colour         | 黄绿 | 红 | 蓝 | 黑 | 细红<br>(棕) | 细黑<br>(白) |
| 信号引线<br>Signal leads | PE | U | V | W | 24V       | BRK       |

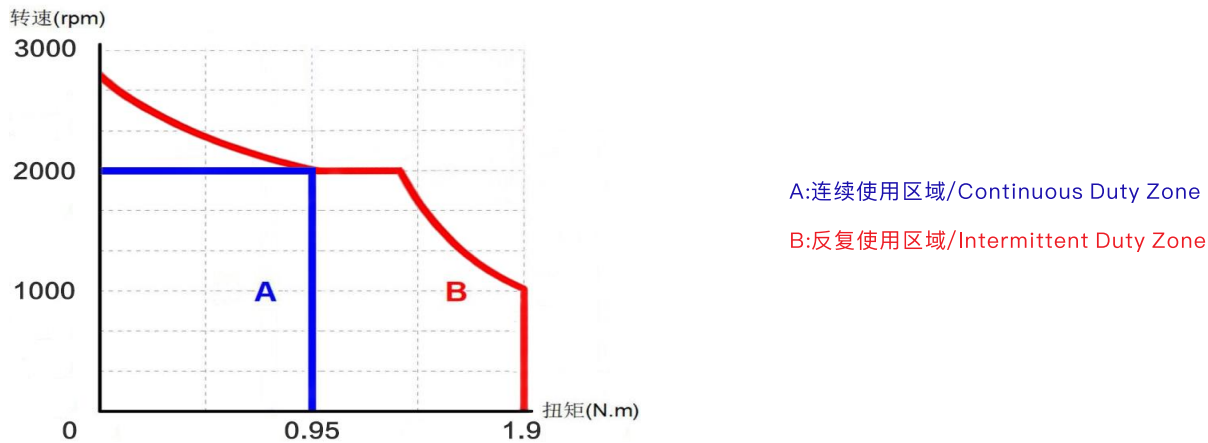
编码器插座/Encoder Socket(DB15 PIN 公头)

|                        |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |
|------------------------|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 插座编号<br>Socket Numbers | 1 | 2 | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 |
| 颜色<br>colour           |   |   | 棕  | 红  | 黑  | 灰  | 黄黑 | 黄  | 白  |    | 绿黑 | 绿  | 蓝黑 | 蓝  |    |
| 信号引线<br>Signal leads   |   |   | U+ | 5V | 0V | V+ | Z- | Z+ | W+ |    | B- | B+ | A- | A+ |    |

编码器零点与电机相位关系

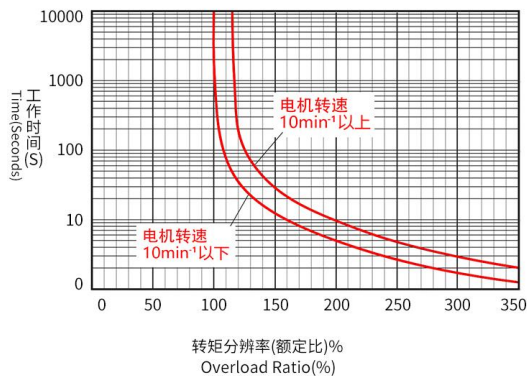


转矩—转速特性/TORQUE-SPEED CHARACTERISTICS



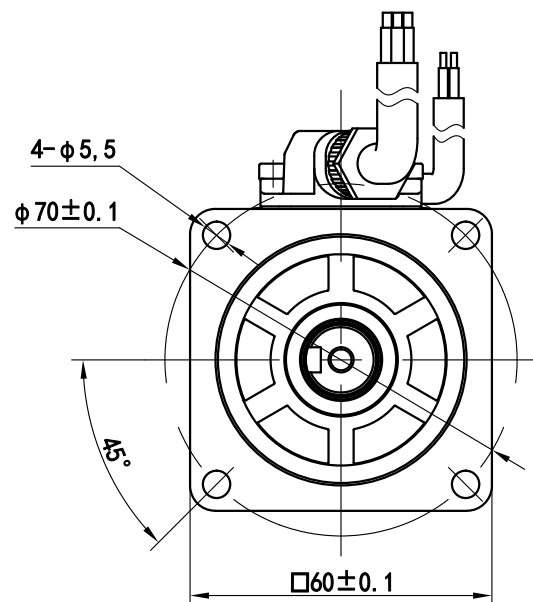
过载特性曲线/OVERLOAD CHARACTERISTICS

工作时间在电机环境温度40℃以及热起动的条件下设定/The characteristics is measured in the warm-boot conditions at 40℃

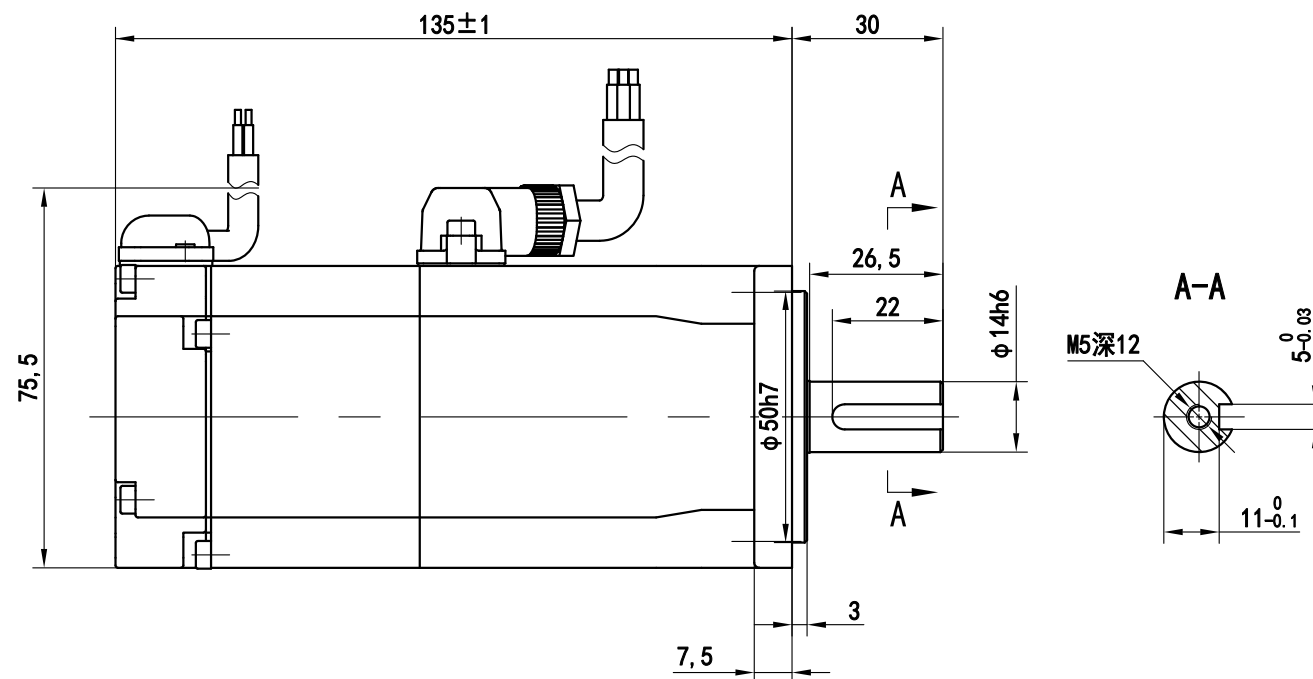


- ※1:上述过载特性并不保证100%以上输出的连续使用/  
The above characteristics do not supply 100% output for continuous running;
- ※2:使用时, 请确保有效转矩在“转矩—转速特性”的连续使用范围内/  
Please make sure that the effective torque is in the range of T-N characteristics' continuous duty zone.
- ※3:由于产品改良或规格变更, 我们会适时对规格书进行更新, 请关注相关信息, 恕不另行通知。/  
Specification are subject to change without notice for ongoing product modification and improvement, please pay more attentions to the

Front view and mounting



Side view



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DC SERVO MOTOR 直流伺服电机

|                                                                               |  |  |  |                                                          |  |                                                                        |  |                                                                |  |
|-------------------------------------------------------------------------------|--|--|--|----------------------------------------------------------|--|------------------------------------------------------------------------|--|----------------------------------------------------------------|--|
| <div> <div>C</div> <div>B</div> <div>A</div> <div>版本<br/>Edition</div> </div> |  |  |  | <div> <div>RoHS<br/>COMPLIANT</div> <div>CE</div> </div> |  | <div> <div>初版/First Edition</div> <div>变更内容<br/>Revisions</div> </div> |  | <div> <div>设计<br/>Designed</div> <div>日期<br/>DATE</div> </div> |  |
|                                                                               |  |  |  |                                                          |  |                                                                        |  |                                                                |  |
|                                                                               |  |  |  |                                                          |  |                                                                        |  |                                                                |  |



|                |            |            |  |                 |        |            |       |
|----------------|------------|------------|--|-----------------|--------|------------|-------|
| 型号<br>Model    | 60#刹车L=135 |            |  |                 |        |            |       |
| 批准<br>Approved | J. Song    | 20. 10. 26 |  | 材质<br>Material  |        |            |       |
| 审核<br>Checked  | CB. Y      | 20. 10. 26 |  | 公差<br>Tolerance | ± 0. 2 | No.        | Sheet |
| 制图<br>Drawn    | QC. Y      | 20. 10. 26 |  | 比例<br>Scale     | 1:1    | 页<br>Sheet | 1/1   |