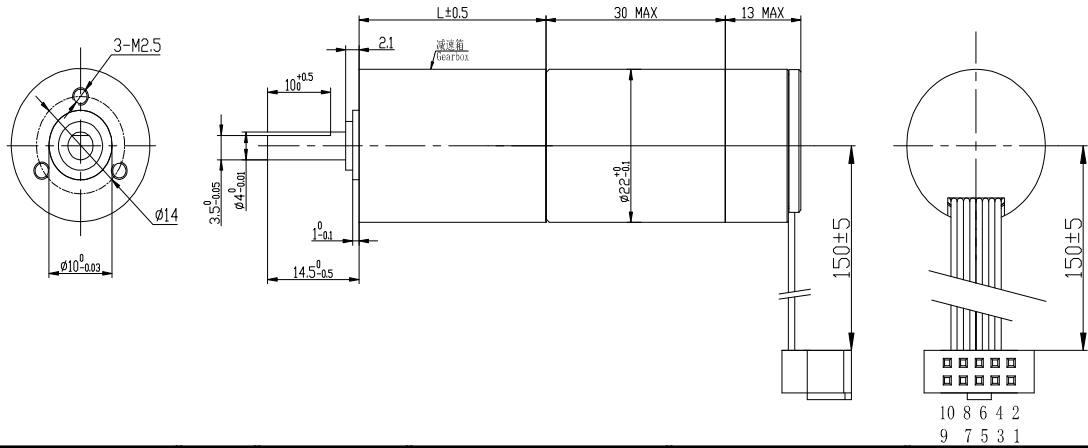


EM2232RG $\Phi 22\text{mm}$ coreless servo motor 空心杯伺服电机

外形尺寸/outline size



| 级数 Stage | 1 | | 2 | | 3 | | 4 | | | 5 | | |
|------------------------|------|-------|------|-------|-------|-------|--------|--------|--------|--------|---------|---------|
| 减速比 Reduction ratio | 3.57 | 12.76 | 22 | 45.55 | 64 | 101.2 | 182.22 | 302.29 | 465.52 | 728.86 | 1029.14 | 2286.04 |
| | 4 | 16 | | 51.02 | 73.6 | 121 | 204.08 | 338.56 | 556.6 | 816.33 | 1557.38 | 2662 |
| | 5.5 | 18.4 | | 58.67 | 84.64 | | 262.86 | 404.8 | | 1024 | 1936 | |
| 连续输出扭矩 Nm | 0.3 | | 0.3 | | 0.5 | | 0.5 | | | 0.75 | | |
| 堵转扭矩 Nm | 0.5 | | 0.5 | | 0.8 | | 0.8 | | | 1 | | |
| 最大效率 % | 90 | | 81 | | 73 | | 65 | | | 59 | | |
| 长度 L mm Length | 22.1 | | 25.9 | | 29.7 | | 33.5 | | | 37.3 | | |
| 空载回差 ° | 1 | | 1.5 | | 1.5 | | 2 | | | 2 | | |

| 电机参数 (Motor data) | | | 06A | 41A |
|------------------------------------|-------------------|--|------|-------|
| 1 额定电压 Nominal voltage | V | | 6 | 12 |
| 2 空载转速 No load speed | rpm | | 8000 | 8000 |
| 3 空载电流 No load current | A | | 0.07 | 0.05 |
| 4 额定转速 Nominal speed | rpm | | 6620 | 7000 |
| 5 额定转矩(最大连续转矩) Nominal torque | mNm | | 6.1 | 6.7 |
| 6 额定电流(最大连续电流) Nominal current | A | | 0.91 | 0.51 |
| 7 堵转转矩 Stall torque | mNm | | 35.3 | 53.6 |
| 8 堵转电流 Stall current | A | | 5 | 3.75 |
| 9 相间电阻 Terminal resistance | Ω | | 1.2 | 3.2 |
| 10 转矩常数 Torque constant | mNm/A | | 7.02 | 14.04 |
| 11 速度常数 Speed constant | rpm/V | | 1333 | 667 |
| 12 机械时间常数 Mechanical time constant | ms | | | |
| 13 转子惯量 Rotor inertia | g·cm ² | | | |
| 14 相间电感 Phase inductance | mH | | | |

| 端子定义 Terminal Definition A: | |
|-----------------------------|--|
| 接器 A Connection A | : EN 60603-13/DIN-41651 2.54mm10pin; |
| 扁平电缆 Flat band cable | : 10pin UL2651 26AWG; |
| PIN1 | N.C ; |
| PIN2 | Vcc DC3.3~5V; |
| PIN3 | GND ; |
| PIN4 | MODE (Vcc ABZ, GND I ² C) ; |
| PIN5 | Channel A- or U; |
| PIN6 | Channel A or I ² C SDA; |
| PIN7 | Channel B- or V; |
| PIN8 | Channel B or I ² C SCL ; |
| PIN9 | Channel Z- or W; |
| PIN10 | Channel Z ; |

| 编码器参数 (Encoder) | |
|--|-----------------------------|
| 基本参数 Type: | |
| 电源电压 Supply voltage | : DC3.3~5V |
| 电流 Typical current | : 15mA |
| 最大机械速度 Max. Mech. Speed | : 5000RPM |
| 积分非线性 Integral Non-Linearity | : $\pm 0.5 \sim 1.0^\circ$ |
| 微分非线性 Differential (ABZ) Non-Linearity | : $\pm 0.02^\circ$ |
| 每转脉冲数 Number of pulses per revolution | : 1~1024PPR |
| 单圈绝对编码 Single-turn absolute coding | : 14-bit (I ² C) |
| 上电时间 Power-Up Time | : 1~3ms ; |
| 输出延迟 (Propagation Delay) | : 1~5 μ s ; |
| 上升时间 R _{ring} Time | : 1 μ s |
| 下降时间 Falling Time | : 1 μ s |
| 储存温度 Storage Temperature | : -55~150°C ; |
| 使用温度 Operating Temperature | : -40~125°C ; |

