

无刷直行星齿轮减速电机(内齿圈材质: 金属)

BLDC Planetary Gear Motor (Ring Gear Material: Metal)

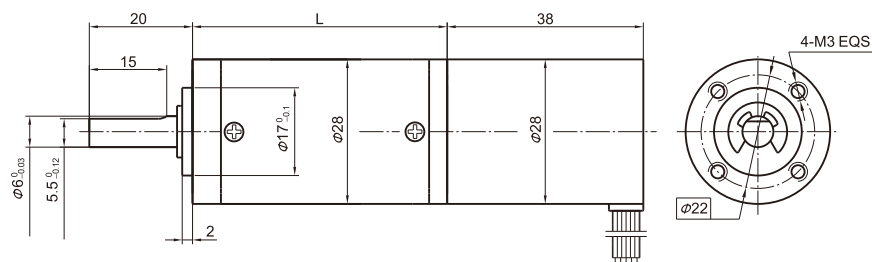
## 28JXB30K/28ZWN38

Φ28 行星减速器, 允许转矩范围: 0.3N.m~3.0N.m

28mm OD Planetary Gearbox,

Permissible Load Range: 0.3N.m~3.0N.m

### 外形和安装尺寸 Dimensions



### 无刷电动机主要技术参数 Brushless Motor Technical Data

| 电机型号<br>TYPE | 极数<br>Number of poles | 相数<br>Number of phase | 额定电压<br>Rated voltage<br>VDC | 空载转速<br>No-load speed<br>r/min | 额定转速<br>Rated speed<br>r/min | 额定转矩<br>Rated torque<br>mN.m | 额定功率<br>Rated power<br>W | 峰值扭矩<br>Peak torque<br>mN.m | 峰值电流<br>Peak current<br>A | 电阻<br>Line to line<br>resistance<br>ohms | 电感<br>Line to line<br>inductance<br>mH |
|--------------|-----------------------|-----------------------|------------------------------|--------------------------------|------------------------------|------------------------------|--------------------------|-----------------------------|---------------------------|------------------------------------------|----------------------------------------|
| 28ZWN38-2430 | 4                     | 3                     | 24                           | 3000                           | 2000                         | 5                            | 1.0                      | 15                          | 0.45                      | 93.3                                     | 28                                     |
| 28ZWN38-2440 | 4                     | 3                     | 24                           | 4000                           | 2700                         | 7                            | 1.9                      | 21                          | 0.60                      | 55                                       | 18.3                                   |

### 无刷行星齿轮减速电机主要技术参数 Brushless Gear Motor Technical Data

配置28ZWN38-2430无刷直流电机 (28ZWN38-2430 BLDC Motor)

| 减速比      | Reduction ratio                       | 3.7   | 5.2   | 14    | 19    | 27    | 51   | 71   | 100  | 139  | 189  | 264  | 369  | 516  | 720  |
|----------|---------------------------------------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|
| 减速级数     | Number of gear trains                 | 1     | 1     | 2     | 2     | 2     | 3    | 3    | 3    | 3    | 4    | 4    | 4    | 4    | 4    |
| 减速器长度(L) | Length(L)                             | mm    | 31.0  | 31.0  | 40.1  | 40.1  | 40.1 | 49.0 | 49.0 | 49.0 | 49.0 | 57.9 | 57.9 | 57.9 | 57.9 |
| 空载转速     | No-load speed                         | r/min | 809   | 576   | 214   | 158   | 111  | 59   | 42   | 30   | 22   | 16   | 11   | 8.1  | 5.8  |
| 额定转速     | Rated speed                           | r/min | 539   | 386   | 143   | 105   | 74   | 39   | 28   | 20   | 14   | 11   | 7.6  | 5.4  | 3.9  |
| 额定转矩     | Rated torque                          | N.m   | 0.017 | 0.023 | 0.057 | 0.077 | 0.11 | 0.19 | 0.26 | 0.37 | 0.51 | 0.61 | 0.86 | 1.2  | 1.7  |
| 最大瞬间允许负载 | Max. permissible load in a short time | N.m   | 1.0   | 1.0   | 3.5   | 3.5   | 3.5  | 7.5  | 7.5  | 7.5  | 7.5  | 9.0  | 9.0  | 9.0  | 9.0  |

配置28ZWN38-2440无刷直流电机 (28ZWN38-2440 BLDC Motor)

| 减速比      | Reduction ratio                       | 3.7   | 5.2   | 14    | 19    | 27   | 51   | 71   | 100  | 139  | 189  | 264  | 369  | 516  | 720  |
|----------|---------------------------------------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|
| 减速级数     | Number of gear trains                 | 1     | 1     | 2     | 2     | 2    | 3    | 3    | 3    | 3    | 4    | 4    | 4    | 4    | 4    |
| 减速器长度(L) | Length(L)                             | mm    | 31.0  | 31.0  | 40.1  | 40.1 | 40.1 | 49.0 | 49.0 | 49.0 | 49.0 | 57.9 | 57.9 | 57.9 | 57.9 |
| 空载转速     | No-load speed                         | r/min | 1078  | 772   | 286   | 211  | 148  | 78   | 56   | 40   | 29   | 21   | 15   | 11   | 7.8  |
| 额定转速     | Rated speed                           | r/min | 728   | 521   | 193   | 142  | 100  | 53   | 38   | 27   | 19   | 14   | 10   | 7.3  | 5.2  |
| 额定转矩     | Rated torque                          | N.m   | 0.023 | 0.033 | 0.079 | 0.11 | 0.15 | 0.26 | 0.36 | 0.51 | 0.71 | 0.86 | 1.2  | 1.7  | 2.3  |
| 最大瞬间允许负载 | Max. permissible load in a short time | N.m   | 1.0   | 1.0   | 3.5   | 3.5  | 3.5  | 7.5  | 7.5  | 7.5  | 7.5  | 9.0  | 9.0  | 9.0  | 9.0  |

### 接线方式 Wire Diagram

| U          | V        | W          | Vcc         | Ha        | Hb          | Hc         | GND        |
|------------|----------|------------|-------------|-----------|-------------|------------|------------|
| 绿<br>Green | 红<br>Red | 黑<br>Black | 黄<br>Yellow | 蓝<br>Blue | 橙<br>Orange | 棕<br>Brown | 白<br>White |

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