

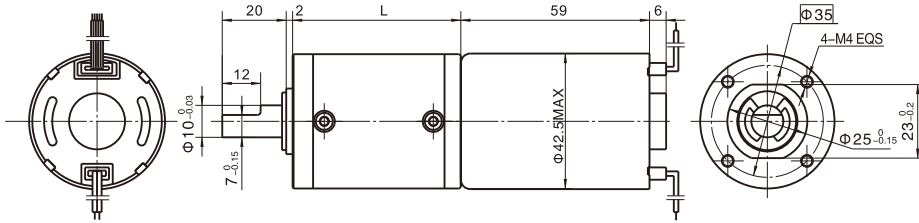
无刷直行星齿轮减速电机(内齿圈材质:金属)

BLDC Planetary Gear Motor (Ring Gear Material: Metal)

**42JX150K/42ZWNP59**  $\Phi 42$  行星减速器, 允许转矩范围: 2N.m~15N.m  
42mm OD Planetary Gearbox,  
Permissible Load Range: 2N.m~15N.m

无刷直流电动机, 3相10极, 外置驱动器 3 phase 10 poles brushless DC motor, with external driver

● 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 | 额定电流<br>Rated current<br>A | 输出功率<br>Output power<br>W |
|---------------|-----------------------|-----------------------|------------------------------|--------------------------------|------------------------------|------------------------------|----------------------------|---------------------------|
| 42ZWNP59-2420 | 10                    | 3                     | 24                           | 2000                           | 1650                         | 58                           | 0.6                        | 10                        |
| 42ZWNP59-2440 | 10                    | 3                     | 24                           | 4000                           | 3000                         | 68                           | 1.2                        | 21                        |

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

配置42ZWNP59-2420无刷直流电机 (42ZWNP59-2420 BLDC Motor)

| 减速比<br>Reduction ratio                                | 3.5  | 14   | 21   | 49  | 84  | 104 | 126 | 172  | 294  |
|---|------|------|------|-----|-----|-----|-----|------|------|
| 减速级数<br>Number of gear trains                         | 1    | 2    | 2    | 3   | 3   | 3   | 3   | 4    | 4    |
| 减速器长度(L)<br>Length(L) mm                              | 32.5 | 39.2 | 39.2 | 46  | 46  | 46  | 46  | 52.5 | 52.5 |
| 空载转速<br>No-load speed r/min                           | 571  | 143  | 95   | 41  | 24  | 19  | 16  | 12   | 7    |
| 额定转速<br>Rated speed r/min                             | 471  | 118  | 78   | 33  | 19  | 15  | 13  | 9    | 5    |
| 额定转矩<br>Rated torque N.m                              | 0.18 | 0.65 | 0.98 | 2.0 | 3.5 | 4.4 | 5.3 | 6.5  | 11.2 |
| 最大瞬间允许负载<br>Max. permissible load in a short time N.m | 3    | 12   | 12   | 25  | 25  | 25  | 25  | 30   | 30   |

配置42ZWNP59-2440无刷直流电机 (42ZWNP59-2440 BLDC Motor)

| 减速比<br>Reduction ratio                                | 3.5  | 14   | 21   | 49  | 84  | 104 | 126 | 172  | 294  |
|---|------|------|------|-----|-----|-----|-----|------|------|
| 减速级数<br>Number of gear trains                         | 1    | 2    | 2    | 3   | 3   | 3   | 3   | 4    | 4    |
| 减速器长度(L)<br>Length(L) mm                              | 32.5 | 39.2 | 39.2 | 46  | 46  | 46  | 46  | 52.5 | 52.5 |
| 空载转速<br>No-load speed r/min                           | 1143 | 286  | 190  | 82  | 48  | 38  | 32  | 23   | 14   |
| 额定转速<br>Rated speed r/min                             | 857  | 214  | 143  | 61  | 36  | 29  | 24  | 17   | 10   |
| 额定转矩<br>Rated torque N.m                              | 0.21 | 0.77 | 1.1  | 2.4 | 4.1 | 5.1 | 6.2 | 7.7  | 13   |
| 最大瞬间允许负载<br>Max. permissible load in a short time N.m | 3    | 12   | 12   | 25  | 25  | 25  | 25  | 30   | 30   |

● 接线方式 Wire Diagram

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

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