

## C16\*\*...13MS... | 正齿轮系列 Spur Gearbox Series

应用领域：医疗器械、精密仪器、工业设备等领域。

Applications: medical equipment, scientific instruments, industrial equipment, etc.

工作温度范围 | Operating temperature range: -10~+80°C

| 配合电机类型   Matched Motor Type                          | 齿轮工艺   Gear Processing Technology                        | 齿轮组输出轴承   Gearbox Output Bearing                         |
|--|--|--|
| <input type="checkbox"/> 无刷电机 BLDC motor             | <input checked="" type="checkbox"/> 金属加工 Metal CNC       | <input checked="" type="checkbox"/> 含油轴承 Slewing bearing |
| <input type="checkbox"/> 空心杯电机 Coreless motor        | <input checked="" type="checkbox"/> 金属注塑 Metal injection | <input type="checkbox"/> 滚珠轴承 Ball bearing               |
| <input checked="" type="checkbox"/> 铁芯电机 Cored motor | <input type="checkbox"/> 粉末冶金 Powder metallurgy          |  |
| <input type="checkbox"/> 步进电机 Step motor             | <input type="checkbox"/> 塑胶注塑 Plastic injection          |  |

### 电机主要技术指标 | Motor Characteristics

|    |           | C1627F34AH-0055       |                  | C1620F13-0032 |       |
|----|-----------|-----------------------|------------------|---------------|-------|
| 1  | 电压        | Voltage               | V                | 6.0           | 6.0   |
| 2  | 端电阻       | Terminal resistance   | Ω                | 8.8           | 10.3  |
| 3  | 空载转速      | No-load speed         | rpm              | 8600          | 11700 |
| 4  | 空载电流      | No-load current       | mA               | 55            | 51    |
| 5  | 堵转转矩      | Stall torque          | mNm              | 3.75          | 2.36  |
| 6  | 堵转电流      | Stall current         | mA               | 652           | 580   |
| 7  | 额定转矩      | Nominal torque        | mNm              | 0.79          | 2.10  |
| 8  | 额定转速      | Nominal speed         | rpm              | 6800          | 1305  |
| 9  | 额定电流      | Nominal current       | mA               | 180           | 520   |
| 10 | 最大输出功率    | Max. output power     | W                | 0.85          | 0.73  |
| 11 | 最大效率      | Max. efficiency       | %                | 51.9          | 50    |
| 12 | 反电势常数     | Back-EMF constant     | mV/rpm           | 0.64          | 0.47  |
| 13 | 转矩常数      | Torque constant       | mNm/A            | 6.28          | 4.47  |
| 14 | 转速 / 转矩斜率 | Speed/torque gradient | rpm/mNm          | 2293          | 4950  |
| 15 | 转子惯量      | Rotor inertia         | gcm <sup>2</sup> | 0.5           | 0.5   |
| 16 | 重量        | Weight                | g                | 16.7          | 11    |

### 齿轮组主要技术指标 (金属加工) | Gearbox Characteristics (Metal CNC)

| 齿轮级数<br>Gearbox stages | 减速比<br>Reduction ratio | 最大额定转矩<br>Max. rated torque | 瞬间允许转矩<br>Max. momentary torque | 长度<br>Length (L) |
|------------------------|------------------------|-----------------------------|---------------------------------|------------------|
|                        |                        | mNm                         | mNm                             | mm               |
| 2                      | 3, 7, 10               | 20                          | 60                              | 11               |
| 4                      | 16, 17, 20, 30, 35     | 30                          | 90                              | 11               |
| 4                      | 50, 63                 | 40                          | 120                             | 11               |
| 4                      | 70, 86                 | 50                          | 150                             | 11               |
| 5                      | 115, 150               | 60                          | 180                             | 11               |
| 5                      | 210, 250               | 70                          | 210                             | 11               |
| 5                      | 360                    | 80                          | 240                             | 12               |

### 外观图 | Outline Drawing

