

25\*\*...25MP... | 行星齿轮系列 Planetary 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 checked="" type="checkbox"/> 无刷电机 BLDC motor      | <input type="checkbox"/> 金属加工 Metal CNC                    | <input checked="" type="checkbox"/> 含油轴承 Sleeve bearing |
| <input checked="" type="checkbox"/> 空心杯电机 Coreless motor | <input type="checkbox"/> 金属注塑 Metal injection              | <input checked="" type="checkbox"/> 滚珠轴承 Ball bearing   |
| <input checked="" type="checkbox"/> 铁芯电机 Cored motor     | <input checked="" type="checkbox"/> 粉末冶金 Powder metallurgy |                                                         |
|                                                          | <input type="checkbox"/> 塑胶注塑 Plastic injection            |                                                         |

电机主要技术指标 | Motor Characteristics

|              |                       |                  | 2543N9C2B01-65-48.0 | 2554N9C2B04-82-24.0 |
|--------------|-----------------------|------------------|---------------------|---------------------|
| 1 电压         | Voltage               | V                | 48.0                | 24.0                |
| 2 端电阻        | Terminal resistance   | Ω                | 23.0                | 3.1                 |
| 3 空载转速       | No-load speed         | rpm              | 6500                | 8200                |
| 4 空载电流       | No-load current       | mA               | 20                  | 35                  |
| 5 堵转转矩       | Stall torque          | mNm              | 144.6               | 214.4               |
| 6 堵转电流       | Stall current         | mA               | 2090                | 7740                |
| 7 额定转矩       | Nominal torque        | mNm              | 42.60               | 32.40               |
| 8 额定转速       | Nominal speed         | rpm              | 4580                | 6960                |
| 9 额定电流       | Nominal current       | mA               | 630                 | 1200                |
| 10 最大输出功率    | Max. output power     | W                | 24.57               | 46.03               |
| 11 最大效率      | Max. efficiency       | %                | 81                  | 87                  |
| 12 反电势常数     | Back-EMF constant     | mV/rpm           | 7.31                | 2.91                |
| 13 转矩常数      | Torque constant       | mNm/A            | 69.84               | 27.82               |
| 14 转速 / 转矩斜率 | Speed/torque gradient | rpm/mNm          | 45                  | 38                  |
| 15 转子惯量      | Rotor inertia         | gcm <sup>2</sup> | 13.2                | 14.2                |
| 16 重量        | Weight                | g                | 98                  | 120                 |

齿轮组主要技术指标（粉末冶金） | Gearbox Characteristics (Powder metallurgy)

| 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                 |
| 1                      | 3.6,4.25               | 300                         | 900                             | 18.3               |
| 2                      | 13~18                  | 500                         | 1500                            | 25                 |
| 3                      | 36~77                  | 1000                        | 3000                            | 30.8               |
| 4                      | 114~326                | 1000                        | 3000                            | 36.6               |
| 5                      | 467~1386               | 1000                        | 3000                            | 42.4               |
| 6                      | --                     | --                          | --                              | --                 |

外观图 | Outline Drawing

