

## C12\*\*...12MS... | 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<br><input type="checkbox"/> 空心杯电机 Coreless motor<br><input checked="" type="checkbox"/> 铁芯电机 Cored motor<br><input type="checkbox"/> 步进电机 Step motor | <input checked="" type="checkbox"/> 金属加工 Metal CNC<br><input checked="" type="checkbox"/> 金属注塑 Metal injection<br><input type="checkbox"/> 粉末冶金 Powder metallurgy<br><input type="checkbox"/> 塑胶注塑 Plastic injection | <input checked="" type="checkbox"/> 含油轴承 Sleeve bearing<br><input type="checkbox"/> 滚珠轴承 Ball bearing |

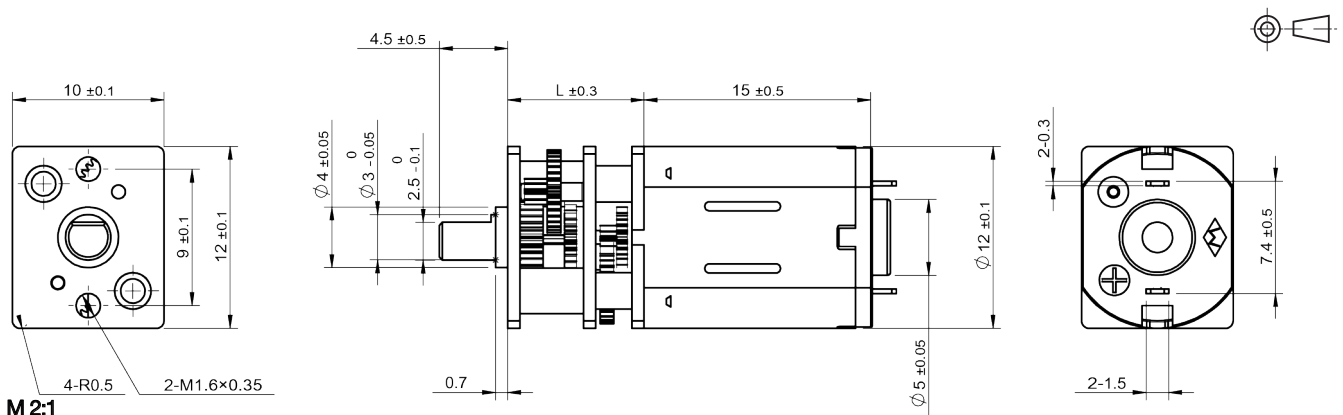
### 电机主要技术指标 | Motor Characteristics

|              |                       |                  | C1215F33-0128 | C1215F13-0462 |
|--------------|-----------------------|------------------|---------------|---------------|
| 1 电压         | Voltage               | V                | 6.0           | 1.5           |
| 2 端电阻        | Terminal resistance   | $\Omega$         | 40.0          | 1.2           |
| 3 空载转速       | No-load speed         | rpm              | 8300          | 11800         |
| 4 空载电流       | No-load current       | mA               | 25            | 100           |
| 5 堵转转矩       | Stall torque          | mNm              | 0.72          | 1.28          |
| 6 堵转电流       | Stall current         | mA               | 150           | 1250          |
| 7 额定转矩       | Nominal torque        | mNm              | 0.35          | 0.60          |
| 8 额定转速       | Nominal speed         | rpm              | 4260          | 6287          |
| 9 额定电流       | Nominal current       | mA               | 90            | 640           |
| 10 最大输出功率    | Max. output power     | W                | 0.16          | 0.40          |
| 11 最大效率      | Max. efficiency       | %                | 35            | 51            |
| 12 反电势常数     | Back-EMF constant     | mV/rpm           | 0.60          | 0.12          |
| 13 转矩常数      | Torque constant       | mNm/A            | 5.75          | 1.12          |
| 14 转速 / 转矩斜率 | Speed/torque gradient | rpm/mNm          | 11543         | 9188          |
| 15 转子惯量      | Rotor inertia         | gcm <sup>2</sup> | 0.3           | 0.3           |
| 16 重量        | Weight                | g                | 5.4           | 5.4           |

### 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, 5, 10               | 20                          | 60                              | 9                |
| 4                      | 17, 20, 30, 36         | 30                          | 90                              | 9                |
| 4                      | 50, 63, 100            | 40                          | 120                             | 9                |
| 5                      | 110, 150               | 50                          | 150                             | 9                |
| 5                      | 210, 250, 298, 380     | 80                          | 240                             | 9                |
| 7                      | 372, 625, 1000         | 100                         | 300                             | 12               |
| --                     | --                     | --                          | --                              | --               |

### 外观图 | Outline Drawing



规格如有变更，恕不另行通知  
Specification subject to change without notice