



200W □ 104mm

直流无刷减速电机 BLDC GEAR MOTOR

## ■ 低压无刷电机性能参数 Low Voltage Motor Parameters

| 型号<br>Model       | 额定功率<br>Rated power<br>W | 电压<br>Voltage<br>V | 额定电流<br>Rated current<br>A | 启动转矩<br>Starting torque<br>N.m | 额定力矩<br>Rated torque<br>N.m | 额定转速<br>Rated speed<br>N.m | 防护等级<br>Grade protection<br>IP |
|-------------------|--------------------------|--------------------|----------------------------|--------------------------------|-----------------------------|----------------------------|--------------------------------|
| M6BLD200-24GU-30S | 200                      | 24                 | 10.5                       | 1.274                          | 0.637                       | 3000                       | 20                             |
| M6BLD200-36GU-30S | 200                      | 36                 | 7.5                        | 1.274                          | 0.637                       | 3000                       | 20                             |
| M6BLD200-48GU-30S | 200                      | 48                 | 5.3                        | 1.274                          | 0.637                       | 3000                       | 20                             |
| M6BLD400-24GU-30S | 400                      | 24                 | 22                         | 2.54                           | 1.27                        | 3000                       | 20                             |
| M6BLD400-48GU-30S | 400                      | 48                 | 11                         | 2.54                           | 1.27                        | 3000                       | 20                             |

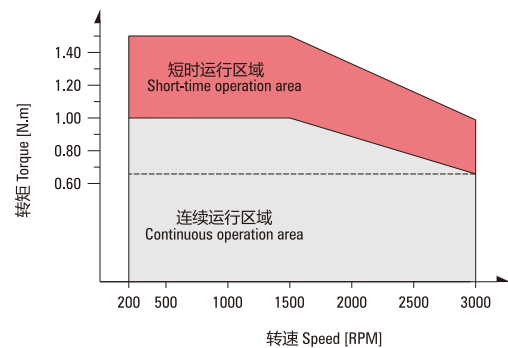
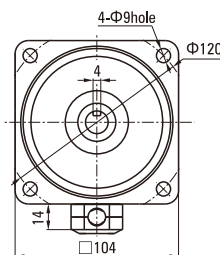
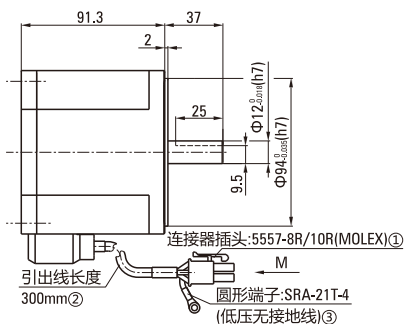
## ■ 高压无刷电机性能参数 High Voltage Motor Parameters

| 型号<br>Model        | 额定功率<br>Rated power<br>W | 电压<br>Voltage<br>V | 额定电流<br>Rated current<br>A | 启动转矩<br>Starting torque<br>N.m | 额定力矩<br>Rated torque<br>N.m | 额定转速<br>Rated speed<br>N.m | 防护等级<br>Grade protection<br>IP |
|--------------------|--------------------------|--------------------|----------------------------|--------------------------------|-----------------------------|----------------------------|--------------------------------|
| M6BLD200-220GU-30S | 200                      | 220                | 2                          | 1.274                          | 0.637                       | 3000                       | 20                             |
| M6BLD400-220GU-30S | 400                      | 220                | 3.5                        | 2.54                           | 1.27                        | 3000                       | 20                             |

## ■ 圆轴型光电机 Circular Shaft Type Optical Motor

● M6BLD200-□A-30S □—电压 Voltage 24/48/220

● M6BLD200-220A-30S 曲线图 Diagram



①Connector: 5557-8R/10R (MOLEX) ②Lead wire length 300mm ③Round terminal: SRA-21T-4 (Low ground)

### ● 低压电机接线插孔对应信号说明

Low Voltage Wire Plughole Corresponding Signal Explanation

| 1     | 2     | 3     | 4      | 5     | 6     | 7     | 8     |
|-------|-------|-------|--------|-------|-------|-------|-------|
| 绿 (相) | 黑 (蓝) | 蓝 (细) | 红 (细)  | 黄 (相) | 蓝 (相) | 绿 (细) | 黄 (细) |
| V     | GND   | Hw    | Vcc+5V | U     | W     | Hv    | Hu    |

### ● 高压电机接线插孔对应信号说明

High Voltage Wire Plughole Corresponding Signal Explanation

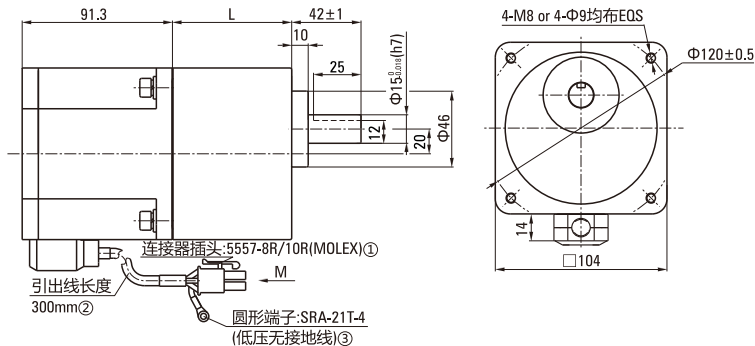
| 1     | 2     | 3     | 4    | 5     | 6     | 7     | 8     | 9 | 10     |
|-------|-------|-------|------|-------|-------|-------|-------|---|--------|
| 黄 (细) | 绿 (细) | 蓝 (细) | 金属丝网 | 黑 (细) | 蓝 (相) | 黄 (相) | 绿 (相) |   | 红 (细)  |
| Hu    | Hv    | Hw    |      | GND   | W     | U     | V     |   | Vcc+5V |

## 200W

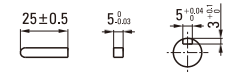
### ● 平行轴减速机 Parallel Shaft Speed Reducer

M6BLD200-□GU-30S/6GU□K □—电压 Voltage 24/48/220

□—速比数值 Velocity Ratio Value



### ● 键·键槽 Key · Keyway



| 减速器型号<br>Gearhead Model | 减速比<br>Gear Ratio | L尺寸<br>Dimension |
|-------------------------|-------------------|------------------|
| 6GU□K                   | 3~200             | 72               |

● 减速器型号的□中为减速比的数值

Enter the gear ratio in the box (□) within the model name

① Connector: 5557-8R/10R (MOLEX) ② The sheath length of lead line 300mm ③ Round terminal: SRA-21T-4 (Low ground)

### ● M6BLD200-□GU-30S/6GU□K整机能容许力矩 (单位: N.m) M6BLD200-□GU-30S/6GU□K Machine Allowable Torque (Unit: N.m)

| 型号 Model     | 电机轴转速<br>Motor Speed | 减速比<br>Reduction Ratio | 3    | 3.6  | 5    | 6    | 7.5  | 9    | 12.5 | 15   | 18   | 25    | 30    | 36    | 50    | 60    | 75    | 90    | 100  | 120  | 150  | 180  | 200  |
|--------------|----------------------|------------------------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|
| M6BLD200-□GU | 200~1500RPM          |                        | 2.41 | 2.90 | 4.02 | 4.83 | 6.03 | 7.24 | 9.06 | 10.9 | 13.1 | 16.4  | 19.7  | 23.6  | 32.8  | 39.3  | 40.0  | 40.0  | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 |
|              | 2000RPM              |                        | 2.04 | 2.45 | 3.40 | 4.08 | 5.11 | 6.13 | 7.67 | 9.20 | 11.0 | 13.9  | 16.6  | 20.0  | 27.7  | 33.3  | 40.0  | 40.0  | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 |
|              | 2500RPM              |                        | 1.86 | 2.23 | 3.09 | 3.71 | 4.64 | 5.57 | 6.97 | 8.37 | 10.0 | 12.6  | 15.1  | 18.2  | 25.2  | 30.3  | 37.8  | 40.0  | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 |
|              | 3000RPM              |                        | 1.55 | 1.86 | 2.58 | 3.09 | 3.87 | 4.64 | 5.81 | 6.97 | 8.37 | 10.44 | 12.53 | 15.04 | 20.88 | 25.06 | 31.32 | 37.59 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 |

### ● M6BLD400-□GU-30S/6GU□K整机能容许力矩 (单位: N.m) M6BLD400-□GU-30S/6GU□K Machine Allowable Torque (Unit: N.m)

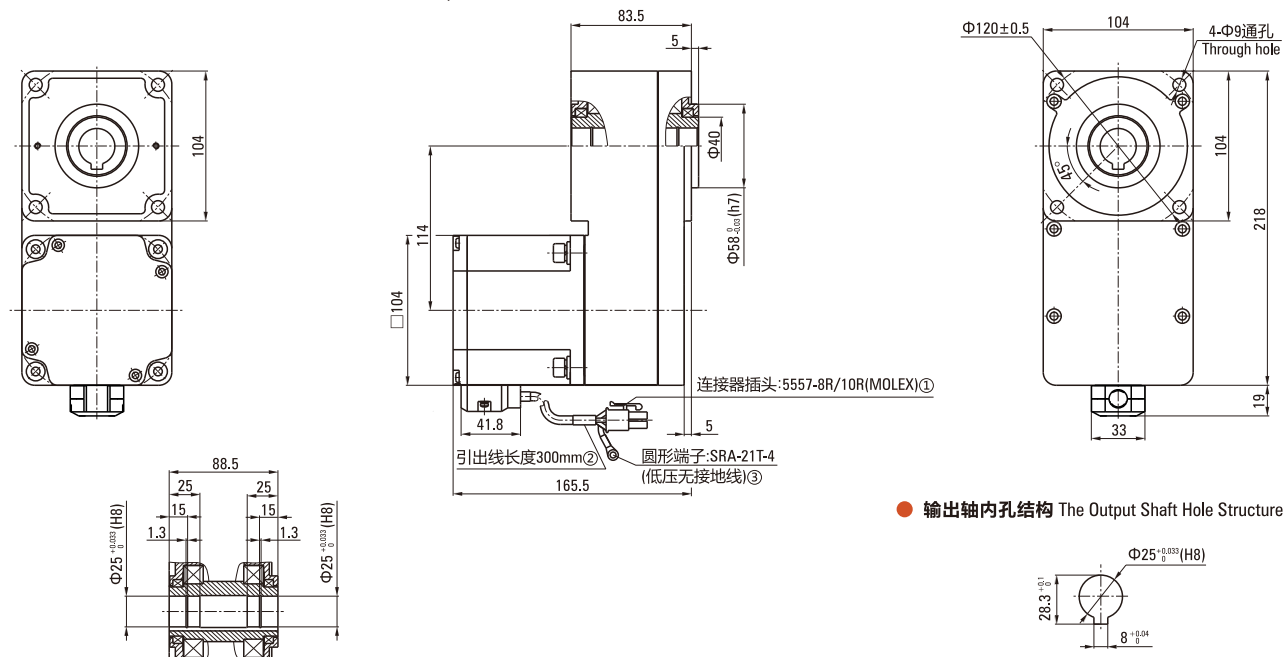
| 型号 Model     | 电机轴转速<br>Motor Speed | 减速比<br>Reduction Ratio | 3    | 3.6  | 5    | 6    | 7.5   | 9     | 12.5  | 15    | 18    | 25    | 30    | 36    | 50   | 60   | 75   | 90   | 100  | 120  | 150  | 180  | 200  |
|--------------|----------------------|------------------------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|
| M6BLD400-□GU | 200~1500RPM          |                        | 4.82 | 5.80 | 8.04 | 9.66 | 12.06 | 14.48 | 18.12 | 21.8  | 26.2  | 32.8  | 39.4  | 40.0  | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 |
|              | 2000RPM              |                        | 4.08 | 4.90 | 6.80 | 8.16 | 10.22 | 12.26 | 15.34 | 18.4  | 22.0  | 27.8  | 33.2  | 40.0  | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 |
|              | 2500RPM              |                        | 3.72 | 4.46 | 6.18 | 7.42 | 9.28  | 11.14 | 13.94 | 16.74 | 20.0  | 25.2  | 30.2  | 36.4  | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 |
|              | 3000RPM              |                        | 3.09 | 3.71 | 5.16 | 6.19 | 7.74  | 9.28  | 11.62 | 13.94 | 16.73 | 20.88 | 25.06 | 30.07 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 |

注 Note: 表格中的 (灰色底部分) 表示旋转方向与电机转向一致。The (gray) in the table indicates that the rotation direction is consistent with the motor.

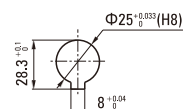
### ● L型减速机 L Type Speed Reducer

M6BLD200-□GUL-30S/6GU□LC □—电压 Voltage 24/48/220

□—速比数值 Velocity Ratio Value



### ● 输出轴内孔结构 The Output Shaft Hole Structure



① Connector: 5557-8R/10R (MOLEX) ② Lead wire length 300mm ③ Round terminal: SRA-21T-4 (Low ground)

● M6BLD200-☐GUL-30S/6GU☐LC 整机容许力矩（单位：N.m） M6BLD200-☐GUL-30S/6GU☐LC Machine Allowable Torque (Unit: N.m)

| 电机轴转速<br>Motor Speed | 5    | 15   | 20    | 30    | 40    | 50    | 100   |
|----------------------|------|------|-------|-------|-------|-------|-------|
| 200~1500RPM          | 4.02 | 12.1 | 16.10 | 21.80 | 32.20 | 40.20 | 80.40 |
| 2000RPM              | 3.40 | 10.2 | 13.60 | 20.40 | 27.20 | 34.00 | 68.00 |
| 2500RPM              | 3.09 | 9.27 | 12.36 | 18.54 | 24.72 | 30.90 | 61.80 |
| 3000RPM              | 2.32 | 6.96 | 9.280 | 13.92 | 18.56 | 23.20 | 46.40 |

● M6BLD400-☐GUL-30S/6GU☐LC 整机容许力矩（单位：N.m） M6BLD400-☐GUL-30S/6GU☐LC Machine Allowable Torque (Unit: N.m)

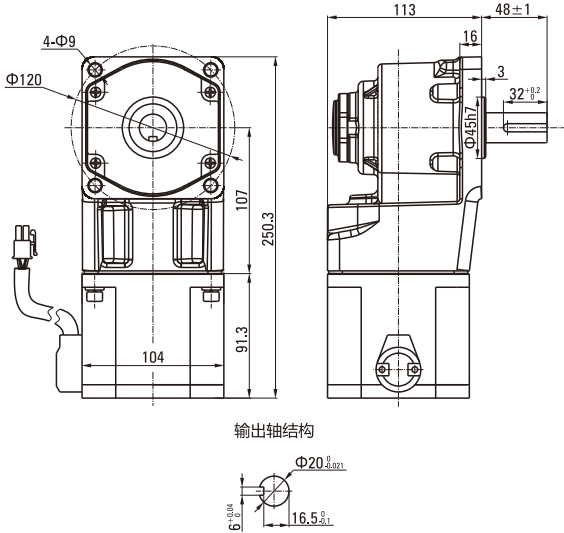
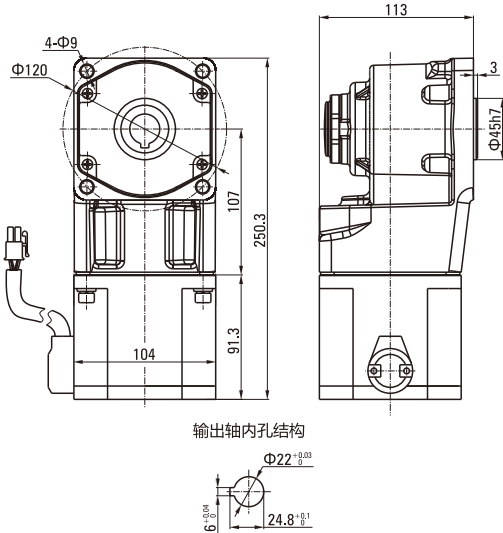
| 电机轴转速<br>Motor Speed | 5    | 15    | 20    | 30    | 40    | 50    | 100   |
|----------------------|------|-------|-------|-------|-------|-------|-------|
| 200~1500RPM          | 8.04 | 24.20 | 32.20 | 43.60 | 64.40 | 80.40 | 120.0 |
| 2000RPM              | 6.80 | 20.40 | 27.20 | 40.80 | 54.40 | 68.00 | 120.0 |
| 2500RPM              | 6.18 | 18.54 | 24.72 | 37.08 | 49.44 | 61.80 | 120.0 |
| 3000RPM              | 4.64 | 13.92 | 18.56 | 27.84 | 37.12 | 46.40 | 92.80 |

注Note：表格中的所有速比旋转方向与电机转向相反。All gearbox output turn direction in form are opposite as motor turn direction.

● 弧锥直角减速电机 Arc Cone Right Angle Speed Reducer Motor

M6BLD200-☐GU-30S/6GU☐RC ☐—电压 Voltage 24/48/220  
☐—速比数值 Velocity Ratio Value

M6BLD200-☐GU-30S/6GU☐RT ☐—电压 Voltage 24/48/220  
☐—速比数值 Velocity Ratio Value



● M6BLD200-☐GU-30S/6GU☐RC/RT 整机容许力矩（单位：N.m） M6BLD200-☐GU-30S/6GU☐RC/RT Machine Allowable Torque (Unit: N.m)

| 型号 Model                              | 电机轴转速<br>Motor Speed | 7.5  | 9    | 12.5 | 15   | 18   | 25    | 30    | 36    | 50    | 60    | 75    | 90   | 100  | 120  | 150  | 180  | 200  |
|---------------------------------------|----------------------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|
| M6BLD200- <input type="checkbox"/> GU | 200~1500RPM          | 6.03 | 7.24 | 9.06 | 10.9 | 13.1 | 16.4  | 19.7  | 23.6  | 32.8  | 39.3  | 40.0  | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 |
|                                       | 2000RPM              | 5.11 | 6.13 | 7.67 | 9.20 | 11.0 | 13.9  | 16.6  | 20.0  | 27.7  | 33.3  | 40.0  | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 |
|                                       | 2500RPM              | 4.64 | 5.57 | 6.97 | 8.37 | 10.0 | 12.6  | 15.1  | 18.2  | 25.2  | 30.3  | 37.8  | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 |
|                                       | 3000RPM              | 3.15 | 3.78 | 5.25 | 6.30 | 7.56 | 10.51 | 12.61 | 15.13 | 23.24 | 27.89 | 34.86 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 |

● M6BLD400-☐GU-30S/6GU☐RC/RT 整机容许力矩（单位：N.m） M6BLD400-☐GU-30S/6GU☐RC/RT Machine Allowable Torque (Unit: N.m)

| 型号 Model                              | 电机轴转速<br>Motor Speed | 7.5   | 9     | 12.5  | 15    | 18    | 25    | 30    | 36    | 50   | 60   | 75   | 90   | 100  | 120  | 150  | 180  | 200  |
|---------------------------------------|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|
| M6BLD400- <input type="checkbox"/> GU | 200~1500RPM          | 12.06 | 14.48 | 18.12 | 21.8  | 26.2  | 32.8  | 39.4  | 40.0  | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 |
|                                       | 2000RPM              | 10.22 | 12.26 | 15.34 | 18.4  | 22.0  | 27.8  | 33.2  | 40.0  | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 |
|                                       | 2500RPM              | 9.28  | 11.14 | 13.94 | 16.74 | 20.0  | 25.2  | 30.2  | 36.4  | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 |
|                                       | 3000RPM              | 6.30  | 7.56  | 10.51 | 12.61 | 15.13 | 21.01 | 25.21 | 30.25 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 |

注Note：表格中的 ☐ (灰底部分) 表示旋转方向与电机转向一致。The ☐ (gray) in the table indicates that the rotation direction is consistent with the motor.