

无刷直流减速电机
BLDC GEAR MOTOR

120W
90mm(GU)



电机型号/性能List of motor characteristics

| 电机型号 Motor Model | 电压 Voltage | 功率 Power | 空载电流 No load Current | 空载转速 No load Speed | 额定电流 Rated Current | 额定转速 Rated Speed | 额定扭矩 Rated Torque | 有否 Hall(Y/N) | 电机寿命 Life(Hours) |
|---------------------|---------------|-------------|-------------------------|-----------------------|-----------------------|---------------------|----------------------|-----------------|---------------------|
| | V | W | A | RPM | A | RPM | N.m | / | H |
| F55B120-24GU-30S | 24 | 120 | 0.9 | 3600 | 6.5 | 3000 | 0.38 | Both | > 5000 |
| F55B120-48GU-30S | 48 | 120 | 0.5 | 3600 | 3.5 | 3000 | 0.38 | Both | > 5000 |
| F55B120-220GU-30S | 220(AC) | 120 | 0.3 | 3600 | 1.3 | 3000 | 0.38 | Both | > 5000 |

减速箱减速比/性能对照表 Gear reduction ratio/performance comparison----F55B120-24GU-30S

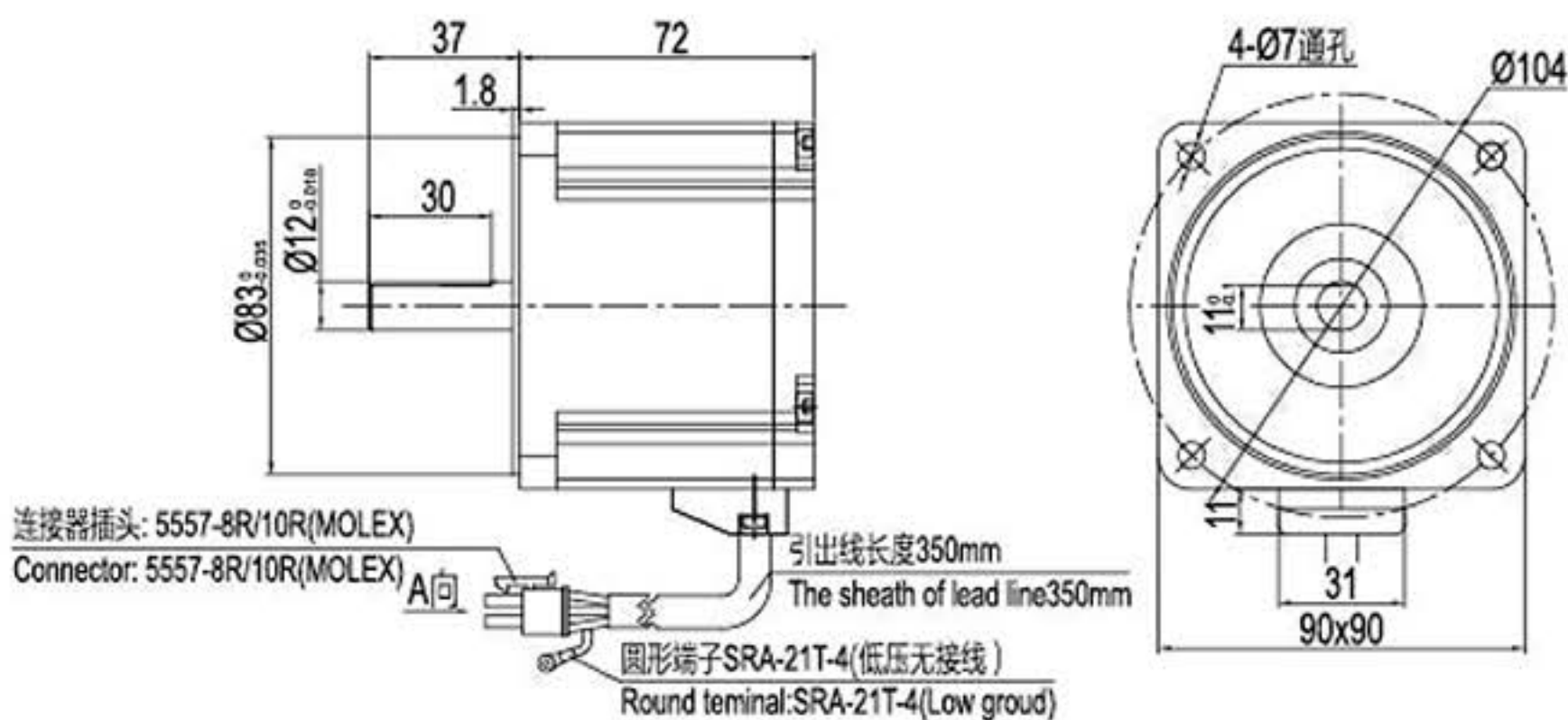
| 减速比 Gear Ratio | 3 | 3.6 | 5 | 6 | 7.5 | 9 | 10 | 12.5 | 15 | 18 | 20 | 25 | 30 | 36 | 40 | 50 | 60 | 75 | 90 | 100 | 120 | 150 | 180 | 200 |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|------|------|------|------|------|------|
| 转速 r/min Speed | 1000 | 833 | 600 | 500 | 400 | 333 | 300 | 240 | 200 | 167 | 150 | 120 | 100 | 83 | 75 | 60 | 50 | 40 | 33 | 30 | 25 | 20 | 17 | 15 |
| 容许转矩 N.m Torque | 0.93 | 1.11 | 1.55 | 1.86 | 2.32 | 2.78 | 3.08 | 3.49 | 4.18 | 5.02 | 5.04 | 6.30 | 7.56 | 9.08 | 10.08 | 12.61 | 15.13 | 18.91 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 |

- 表中转速是以电机的平均转速为基数除以减速比而算出的数值。实际转速将随负载大小而变化，变化范围 2-20%。
- 表中 色框表示输出轴的旋转方向与电机旋转方向相反。
- 表中转矩是以电机额定转矩 × 减速比 × 传动效率计算而得。
- In the table, the speed is calculated from the base of the motor's average speed divided by the deceleration ratio.The actual speed will vary with the load, ranging from 2% to 20%.
- The box in the table indicates that the rotation direction of the output axis is opposite to that of the motor.
- Table transfer torque is calculated from motor rated torque * deceleration ratio * transmission efficiency.

尺寸图DIMENSIONAL DRAWING

圆轴电机

重量 Weight: 2.48kg



低压电机接线插孔对应信号说明
Low Voltage Wire Plughole Corresp-onding Single Explanation

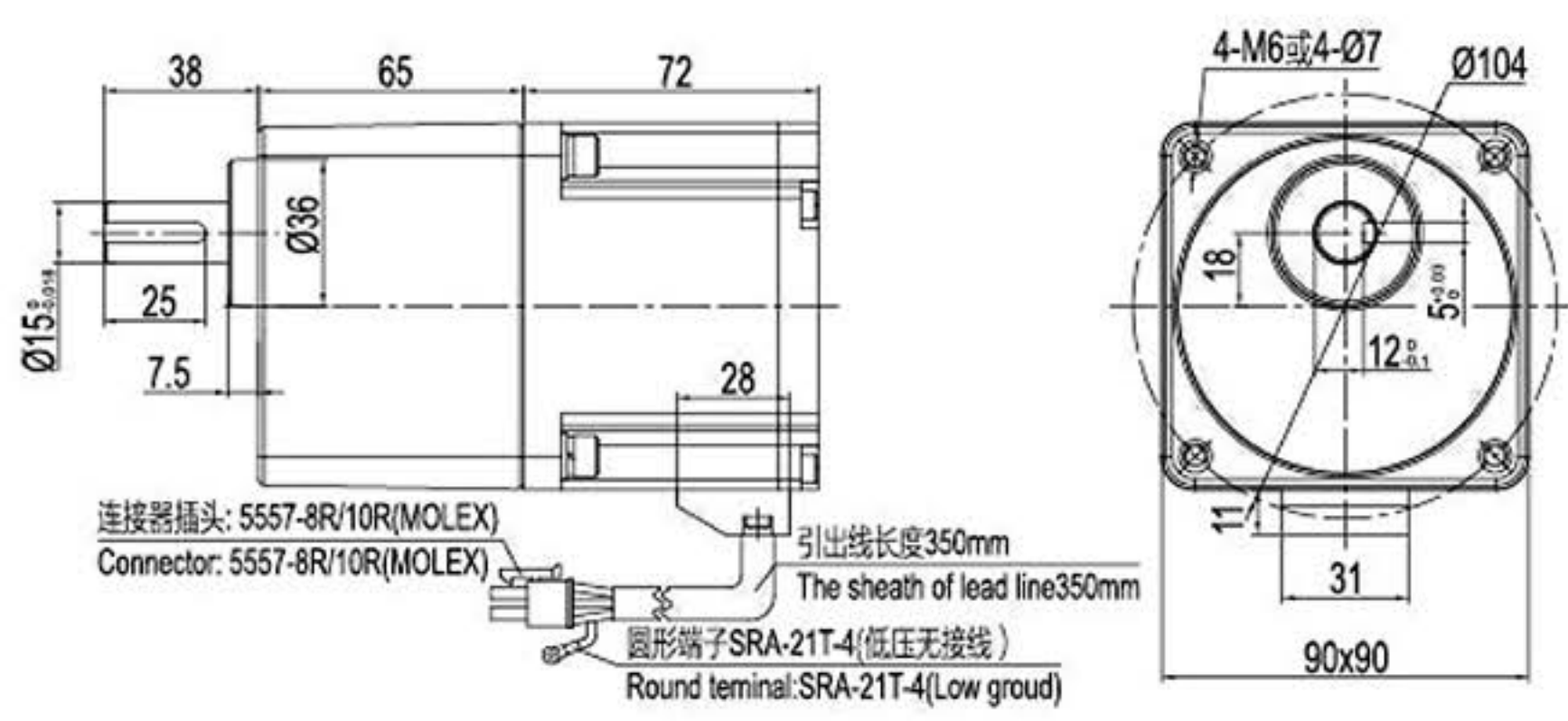
| | | | | | | | |
|----|----|----|----|---|---|----|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| U | W | Hb | Ha | V | - | Hc | + |
| 棕色 | 蓝色 | 绿 | 黄 | 绿 | 黑 | 蓝 | 红 |

高压电机接线插孔对应信号说明
High Voltage Wire Plughole Corresp-onding Single Explanation

| | | | | | | | | | |
|----|----|---|----|---|----|---|---|---|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| W | Ha | U | Hb | V | Hc | - | + | - | - |
| 棕色 | 黄 | 蓝 | 绿 | 绿 | 蓝 | 黑 | 蓝 | 黑 | 红 |

组合：电机 + 标准齿轮箱

重量 Weight: 4.01kg



- 中间齿轮箱，高度 42mm。Decimal Gearhead, height of 42mm.
- 电动机外形与齿轮轴型相同，减数比 10。5GN10X