



### 8030L接线定义/8030L Wiring Sequence

| 动力线 Power Cable |          |         |        |
|-----------------|----------|---------|--------|
| 颜色 color        | 黄 Yellow | 绿 Green | 蓝 Blue |
| 信号 Signal       | U        | V       | W      |

  

| 信号线端子 Signal Cable Connector |                 |                 |                 |         |          |         |
|------------------------------|-----------------|-----------------|-----------------|---------|----------|---------|
| 针脚 Pin                       | 1               | 3               | 5               | 7       | 9        | 11      |
| 颜色 Color                     | 棕 Brown         | 灰 Grey          | 白 White         | 绿 Green | 黄 Yellow | 红 Red   |
| 信号 Signal                    | 编码器A+ EncoderA+ | 编码器B+ EncoderB+ | 热敏电阻 thermistor | HV      | HU       | +5V     |
| 针脚 Pin                       | 2               | 4               | 6               | 8       | 10       | 12      |
| 颜色 Color                     | 棕黑 Brown Black  | 灰黑 Grey Black   | 白黑 White Black  | 蓝 Blue  | NC       | 黑 Black |
| 信号 Signal                    | 编码器A- EncoderA- | 编码器B- EncoderB- | 热敏电阻 thermistor | HW      | NC       | GND     |

### ZLLG15ASM800 V2.0电机参数/ Motor Parameters

|                                       |                          |                                   |     |  |                    |   |           |                                      |                        |
|---------------------------------------|--------------------------|-----------------------------------|-----|--|--------------------|---|-----------|--------------------------------------|------------------------|
| 标称<br>Nominal Size                    | 15寸                      | 极对数 (对)<br>Pole No (Pairs)        | 20  | 编码器<br>Encoder                             | 4096线<br>4096-wire | 线电阻 (Ω)<br>Wire Resistance(Ω)               | 0.7±10%   | 绝缘电压 (V)<br>Insulation Voltage (V)   | DC500V, >20MΩ          |
| 外径尺寸 (mm)<br>Wheel Diameter (mm)      | 388±2                    | 额定电压 (VDC)<br>Rated Voltage (VDC) | 48  | 最大负载 (KG/2sets)<br>Maximum Load (KG/2sets) | 200                | 线电感 (mH)<br>Wire Inductance (mH)            | 1.885±10% | 绝缘强度<br>Dielectric Strength          | 600V/50HZ (1min), ≤5mA |
| 出轴<br>Shaft Type                      | 单出轴<br>Single Shaft      | 额定扭矩 (N.m)<br>Rated Torque (N.m)  | 17  | 峰值扭矩 (N.m)<br>Peak Torque (N.m)            | 51                 | 反电动势常数 (V/RPM)<br>Back EMF Constant (V/RPM) | 0.262±10% | 环境温度 (°C)<br>Ambint Temperature (°C) | -20~+40                |
| 轮胎材质<br>Tire                          | 充气橡胶<br>Pneumatic Rubber | 额定电流 (A)<br>Rated Current (A)     | 7.5 | 峰值电流 (A)<br>Peak Current (A)               | 22                 | 重量 (KG)<br>Weight (KG)                      | 9.7±5%    | 环境湿度 (%)<br>Ambient Humidity (%)     | 20~80                  |
| 轮胎硬度 (邵氏A)<br>Tire hardness (shore A) | 65±5                     | 额定转速 (RPM)<br>Rated Speed (RPM)   | 150 | 最大转速 (RPM)<br>Peak Speed (RPM)             | 180                |   |           |                                      |                        |



|                     |               |            |          |
|---------------------|---------------|------------|----------|
| 设计变更: Design change | 设计: Design    | ZWH, LHQ   | 视图: View |
| 1:                  | 校对: Proofread | CX, LHY    |          |
| 2:                  | 版本: Version   | V1.00      |          |
| 3:                  | 日期: Date      | 2022.09.26 |          |

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| 公司名称: 深圳中菱科技有限公司<br>Company Name: Shenzhen zhongling Technology Co, Ltd.      |
| 产品名称: 机器人轮毂电机<br>Product Name: Robot hub motor                                |
| 产品型号: ZLLG15ASM800 V2.0 (单轴)<br>Product P/N: ZLLG15ASM800 V2.0 (Single shaft) |