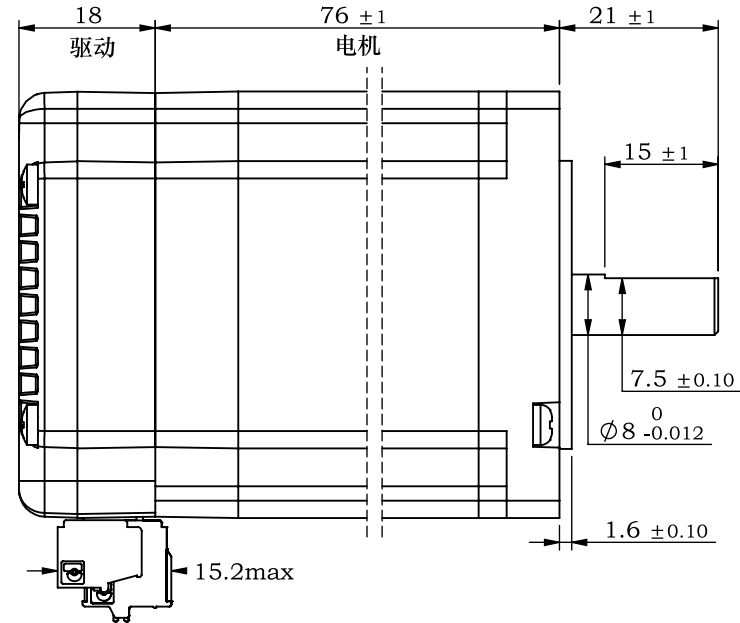
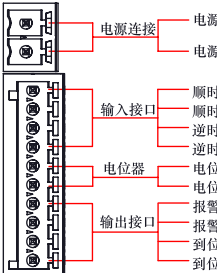


**RoHS**  
**COMPLIANT**



| ※ 规格/ Specification |                                 | ※ 端口功能/Port Function                  |      |                                                                         |     |     |     |     |     |     |     |      |      |      |      |      |      | ※ 端子定义/Terminal definitions |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                            | ※ 铭牌内容/Label discription |  |                |     |                                             |             |  |  |  |  |  |  |  |  |  |  |
|---------------------|---------------------------------|---------------------------------------|------|-------------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|-----------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--|----------------|-----|---------------------------------------------|-------------|--|--|--|--|--|--|--|--|--|--|
| 输入电压范围              | 24~60vdc                        | 序号                                    | 名称   | 功能                                                                      |     |     |     |     |     |     |     |      |      |      |      |      |      |                             |                                                                                       |  <div>电源正 (V+)</div> <div>电源负 (V-)</div> <div>顺时针旋转触发正端(CW+)</div> <div>顺时针旋转触发负端(CW-)</div> <div>逆时针旋转触发正端(CCW+)</div> <div>逆时针旋转触发负端(CCW-)</div> <div>电位器中间轴头(AIN)</div> <div>电位器任意引脚(GND)</div> <div>报警正 (AL+)</div> <div>报警负 (AL-)</div> <div>到位正 (EX+)</div> <div>到位负 (EX-)</div> |                          |  | 型号/Model       |     | IH57EV20                                    |             |  |  |  |  |  |  |  |  |  |  |
| 输出力矩范围              | 最大2.0N.m                        | 1                                     | V+   | 电源正 (24~60vdc)                                                          |     |     |     |     |     |     |     |      |      |      |      |      |      |                             |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                            |                          |  |                |     |                                             |             |  |  |  |  |  |  |  |  |  |  |
| 功率放大类型              | 双 H-桥, 4 象限                     | 2                                     | V-   | 电源地 (GND)                                                               |     |     |     |     |     |     |     |      |      |      |      |      |      |                             |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                            |                          |  |                |     |                                             |             |  |  |  |  |  |  |  |  |  |  |
| 保护                  | 过压、欠压、过流、绕组开路、位置偏差              | 3                                     | CW+  | 光电隔离, 差分, 高电平可直接接收3.3~24VDC, 顺时针旋转触发输入端口, 不可与逆时针旋转信号同时输入                |     |     |     |     |     |     |     |      |      |      |      |      |      |                             |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                            |                          |  |                |     |                                             |             |  |  |  |  |  |  |  |  |  |  |
| 电流设置                | 软件可调, 0.5~6.5可调, 出厂适配电机         | 4                                     | CW-  |                                                                         |     |     |     |     |     |     |     |      |      |      |      |      |      |                             |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                            |                          |  |                |     |                                             |             |  |  |  |  |  |  |  |  |  |  |
| 速度设置                | 拨码16档可调; 软件0~3000整数可调           | 5                                     | CCW+ | 光电隔离, 差分, 高电平可直接接收3.3~24VDC, 逆时针旋转触发输入端口, 不可与顺时针旋转信号同时输入                |     |     |     |     |     |     |     |      |      |      |      |      |      |                             |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                            |                          |  |                |     |                                             |             |  |  |  |  |  |  |  |  |  |  |
| 速度范围                | 最高可达3000rpm                     | 6                                     | CCW- |                                                                         |     |     |     |     |     |     |     |      |      |      |      |      |      |                             |                                                                                       | <div>第一角画法<br/>Frist Angel View</div>                                                                                                                                                                                                                                                 |                          |  | 品号/Product No. |     | 名称/Name<br>集成式步进伺服<br>Integrated step servo |             |  |  |  |  |  |  |  |  |  |  |
| 距离范围                | 超过 10,000,000 圈 (200 steps/rev) | 7                                     | AIN  | 接0~100K电位器, 接中间抽头和另外任意一脚, 阻值越小, 速度越慢, 阻值为0时, 速度为0; 阻值越大, 速度越接近拨码设定最大速度。 |     |     |     |     |     |     |     |      |      |      |      |      |      |                             |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                            |                          |  |                |     |                                             |             |  |  |  |  |  |  |  |  |  |  |
| 滤波频率                | 出厂默认300KHZ, 可通过软件设置             | 8                                     | GND  |                                                                         |     |     |     |     |     |     |     |      |      |      |      |      |      |                             |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                            |                          |  |                |     |                                             |             |  |  |  |  |  |  |  |  |  |  |
| 控制方式                | 模拟量                             | 9                                     | AL+  | 报警状态输出端口, 可检测电机报警状态, 默认常闭, 正常时输出。                                       |     |     |     |     |     |     |     |      |      |      |      |      |      |                             |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                            |                          |  |                |     |                                             |             |  |  |  |  |  |  |  |  |  |  |
| 编码器反馈               | 1000线(4000 Counts)编码器反馈         | 10                                    | AL-  | 可通过软件取反或设置成其他功能。                                                        |     |     |     |     |     |     |     |      |      |      |      |      |      |                             |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                            |                          |  |                |     |                                             |             |  |  |  |  |  |  |  |  |  |  |
| 非易失性存储              | 配置参数存储在MCU内部的FLASH中             | 11                                    | EX+  | 到位状态输出端口, 可检测电机到位状态, 到位时输出。                                             |     |     |     |     |     |     |     |      |      |      |      |      |      |                             |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                            |                          |  |                |     |                                             |             |  |  |  |  |  |  |  |  |  |  |
| 重量                  | ≈1.1 Kg                         | 12                                    | EX-  | 可通过软件取反或设置成其他功能。                                                        |     |     |     |     |     |     |     |      |      |      |      |      |      |                             |                                                                                       | 公差<br>Tolerance                                                                                                                                                                                                                                                                                                                                                            |                          |  | 比例<br>Scale    |     |                                             | 页码<br>Sheet |  |  |  |  |  |  |  |  |  |  |
| 转子惯量                | ≈ 480 g.cm <sup>2</sup>         | ※ 拨码设置/Serial port Settings           |      |                                                                         |     |     |     |     |     |     |     |      |      |      |      |      |      | ±0.3                        |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                            | 1:1                      |  |                | 1/1 |                                             |             |  |  |  |  |  |  |  |  |  |  |
| 使用温度范围              | 0° C~+40° C                     | 速度                                    | 100  | 200                                                                     | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600                        |  |                                                                                                                                                                                                                                                                                                                                                                            |                          |  |                |     |                                             |             |  |  |  |  |  |  |  |  |  |  |
| 使用湿度范围              | 20%RH~90%RH                     | SW1                                   | ON   | OFF                                                                     | ON  | OFF | ON  | OFF | ON  | OFF | ON  | OFF  | ON   | OFF  | ON   | OFF  | ON   | OFF                         |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                            |                          |  |                |     |                                             |             |  |  |  |  |  |  |  |  |  |  |
| 通讯方式                | TTL                             | SW2                                   | ON   | ON                                                                      | OFF | OFF | ON  | ON  | OFF | OFF | ON  | ON   | OFF  | OFF  | ON   | ON   | OFF  | OFF                         |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                            |                          |  |                |     |                                             |             |  |  |  |  |  |  |  |  |  |  |
| 波特率                 | 115200                          | SW3                                   | ON   | ON                                                                      | ON  | ON  | OFF | OFF | OFF | OFF | ON  | ON   | ON   | OFF  | OFF  | OFF  | OFF  | OFF                         |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                            |                          |  |                |     |                                             |             |  |  |  |  |  |  |  |  |  |  |
| 数据位                 | 8                               | SW4                                   | ON   | ON                                                                      | ON  | ON  | ON  | ON  | ON  | ON  | OFF | OFF  | OFF  | OFF  | OFF  | OFF  | OFF  | OFF                         |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                            |                          |  |                |     |                                             |             |  |  |  |  |  |  |  |  |  |  |
| 停止位                 | 1                               | SW5: 用于设定运行模式, OFF时为外部IO控制旋转; ON时为自运行 |      |                                                                         |     |     |     |     |     |     |     |      |      |      |      |      |      |                             |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                            |                          |  |                |     |                                             |             |  |  |  |  |  |  |  |  |  |  |
| 校验位                 | 无                               | SW6: 用于设定运动方向, OFF时为CW, ON时为CCW       |      |                                                                         |     |     |     |     |     |     |     |      |      |      |      |      |      |                             |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                            |                          |  |                |     |                                             |             |  |  |  |  |  |  |  |  |  |  |