

|   |   |  |
|---|---|--|
|  | <b>特 性 FEATURES</b>   |  |
|   | 外形尺寸 L81.5×W76×H29.5mm<br>双稳态磁保持继电器<br>2 组触点, 200A 250VAC 的负载切换能力<br>产品符合 ANSI C12.1 标准<br>( 承受 12KA 有效值 /66.7ms ,<br>7KA/100ms)<br>适用于智能电表、工业控制等领域<br>对标宏发 HFE25、三友 SY37 | Dimensions L81.5×W76×H29.5mm<br>Bistable magnetic holding relay<br>2 sets of contacts, 200A 250VAC load<br>switching capability<br>Products comply with ANSI C12.1 standard<br>(Withstands 12KA rms/66.7ms, 7KA/100ms)<br>Suitable for smart meters, industrial control<br>and other fields<br>Benchmark Hongfa HFE25, Sanyou SY37 |

### 触点参数 CONTACT PARAMETERS

|                               |                           |
|-------------------------------|---------------------------|
| 触点形式 Contact Form             | 2A、2B                     |
| 触点材料 Contact Material         | 银合金 Silver Alloy          |
| 接触电阻 Contact Resistance       | ≤0.5mΩ (1A 6VDC)          |
| 触点负载 Contact Rating           | 200A 250VAC(阻性 Resistive) |
| 最大切换电流 Max. Switching Current | 200A(阻性 Resistive)        |
| 最大切换电压 Max. Switching Voltage | 265VAC(阻性 Resistive)      |
| 最大切换功率 Max. Switching Power   | 4.8KVA                    |
| 电气寿命 Electrical Life          | 6×10 <sup>3</sup> 次 OPS   |
| 机械寿命 Mechanical Life          | 1×10 <sup>5</sup> 次 OPS   |

### 性能参数 CHARACTERISTICS

|                            |  |                     |
|----------------------------|--|---------------------|
| 绝缘电阻 Insulation Resistance | 1000MΩ Min. (500VDC)                         |                     |
| 介质耐压 Dielectric Strength   | 触点与线圈间 Between Coil & Contacts: 4000VAC 1min |                     |
|                            | 断开触点间 Between Open Contacts: 2000VAC 1min    |                     |
| 动作时间 Operate Time          | ≤20ms  |                     |
| 复归时间 Release Time          | ≤20ms  |                     |
| 冲击 Shock Resistance        | 稳定性 Functional                               | 98m/s <sup>2</sup>  |
|                            | 强度 Destructive                               | 980m/s <sup>2</sup> |
| 振动 Vibration Resistance    | 10Hz~55Hz 1.5mm 双振幅 (DA)                     |                     |
| 湿度 Humidity                | 5%~85%RH                                     |                     |
| 温度范围 Ambient Temperature   | -40°C~85°C                                   |                     |
| 引出端方式 Termination          | 快速连接   |                     |
| 封装方式 Construction          | 防尘罩型 Dust Protected                          |                     |
| 重量 Unit Weight             | 约 Approx.: 400g                              |                     |

**线圈规格表 COIL DATA(23°C)**

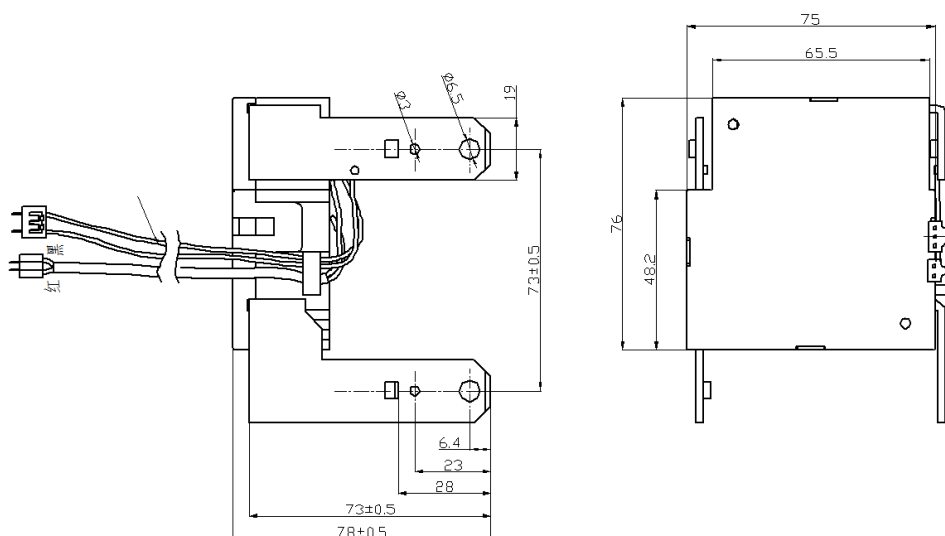
| 额定电压<br>Rated Voltage<br>VDC | 动作/复位电压<br>Set/reset voltage<br>VDC | 脉冲宽度<br>Pulse Duration<br>ms | 线圈电阻<br>Coil Resistance<br>$\Omega \pm 10\%$ |         | 线圈功耗<br>Coil Power<br>W |
|------------------------------|-------------------------------------|------------------------------|--|---------|-------------------------|
| 6                            | $\leq 4.8$                          | $\geq 100$                   | 单线圈<br>Single Coil<br>Latching               | 3       | 约 Approx.<br>12.0       |
| 9                            | $\leq 7.2$                          | $\geq 100$                   |  | 6.75    |                         |
| 12                           | $\leq 9.6$                          | $\geq 100$                   |  | 12      |                         |
| 24                           | $\leq 19.2$                         | $\geq 100$                   |  | 48      |                         |
| 48                           | $\leq 38.4$                         | $\geq 100$                   |  | 190     |                         |
| 6                            | $\leq 4.8$                          | $\geq 100$                   | 双线圈<br>Double Coils<br>Latching              | 1.5/1.5 | 约 Approx.<br>24.0       |
| 9                            | $\leq 7.2$                          | $\geq 100$                   |  | 3.3/3.3 |                         |
| 12                           | $\leq 9.6$                          | $\geq 100$                   |  | 6/6     |                         |
| 24                           | $\leq 19.2$                         | $\geq 100$                   |  | 24/24   |                         |
| 48                           | $\leq 38.4$                         | $\geq 100$                   |  | 95/95   |                         |

**订货标记示例 ORDERING INFORMATION**

|                     |   |      |   |    |    |     |    |       |
|---------------------|---|------|---|----|----|-----|----|-------|
|                     | MLH   | -200 | 2 | 12 | -A | -L1 | -R | (XXX) |
| 产品型号 Model:         | MLH   |      |   |    |    |     |    |       |
| 负载规格 Load:          | 200: 200A   |      |   |    |    |     |    |       |
| 触点组数 Contact Group: | 2: 2组 2Groups   |      |   |    |    |     |    |       |
| 线圈电压 Coil Voltage:  | 09、12、24  |      |   |    |    |     |    |       |
| 触点形式 Contact Form:  | A: 常开 NO    B: 常闭 NC  |      |   |    |    |     |    |       |
| 线圈类型 Coil Type:     | L1: 单线圈 Single Coil Latching<br>L2: 双线圈 Double Coils Latching           |      |   |    |    |     |    |       |
| 极性特点                | R: 反极性 Negative Polarity (如接线图所示)<br>无: 标准极性 Positive Polarity (如接线图所示) |      |   |    |    |     |    |       |
| 特性号 Special Code    | XXX: 客户特殊要求 Customer Special Requirement                                |      |   |    |    |     |    |       |

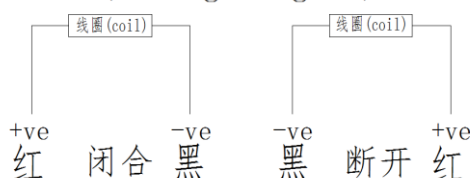
## 外形图、线圈接线图 OUTLINE DIMENSIONS、WIRING DIAGRAM

外形图 Outline Dimensions



线圈接线图 Wiring Diagram

### 接线图 (wiring diagram)



#### 注意事项:

- 1、磁保持继电器出厂状态为动作或复归状态，但因运输或继电器安装时受到冲击等因素的影响，可能会改变状态，因而使用时（电源接入时）请根据需要重新将其设置为复归状态或动作状态；
- 2、为了确保磁保持继电器动作或复归，施加到线圈上的激励电压须达到额定电压，脉冲宽度须大于动作或复归时间的 5 倍；不要同时向动作线圈和复归线圈施加电压；不要长时间（大于 1 分钟）向线圈施加电压；
- 3、不带软铜绞线的磁保持继电器负载引出脚不能焊锡，不能随意扳动。
- 4、继电器通常为防尘罩结构，外接件按照客户特殊要求定制，所以推荐此产品的储存时间小于 6 个月，并注意仓储环境；同时为保证产品接触可靠性，在客户没有特别申明的情况下，我司将控制继电器触点为闭合状态。

#### NOTICE

1. Relay is on the "reset" or "set" status when being released from stock, with the consideration of shock risen from transit and relay mounting, relay would be changed to "reset" or "set" status, therefore, when application(connecting the power supply),please reset the relay to "reset" or "set" status on request.
2. In order to maintain "reset" or "set" status, energized voltage to coil should reach the rated voltage, impulse width should be 5 times more than "reset" or "set" time. Do not energize voltage to "reset" coil



and "set" coil simultaneously. And also long energized time(more than 1min)should be avoided.

3. The terminals of relay without twisted copper wire can not be tin-soldered, can not be moved willfully, more over two terminals can' t be fixed at the same time.
4. Relays used for metering measuring applications are usually made with dust proof structure, while most relays could be made specially per customer' s specific requirements. No longer than 6 months' storage time is recommended for this kind of relay, and please pay attention to the storage environment. To ensure contact reliability, we will keep contact status be closed when delivery if no special required by customer.