



Plug in type



PCB type

**Features**

- Miniature;
- Contact load capacity up to 100A;
- Terminal types as inserting/PCB;
- Suitable for automobile;
- Sealed type available (sealed only for without bracket version)。

**Ordering Information 订货说明**

| <u>WM640L</u>  | <u>- 12</u> | <u>- A</u> | <u>- B</u> | <u>R</u> | <u>P</u> | <u>S</u> |
|--|-------------|------------|------------|----------|----------|----------|
| 1  | 2           | 3          | 4          | 5        | 6        | 7        |
| 1 Part number 继电器型号: WM640L  |             |            |            |          |          |          |
| 2 Coil rated Voltage(VDC)线圈额定电压: 6: 6V; 12: 12V; 24: 24V   |             |            |            |          |          |          |
| 3 Contact Form 触点形式: A: 1A; C: 1C  |             |            |            |          |          |          |
| 4 Cover 外壳: B: Insulation Bracket 带塑料安装背; M: Metal Bracket 带金属安装背; Nil: No Bracket 没有安装背           |             |            |            |          |          |          |
| 5 Coil transient suppression 线圈瞬态抑制: D: with diode 带二极管.; R: with resistance 带电阻; Nil: standard 常规 |             |            |            |          |          |          |
| 6 Terminals 引出脚方式: P: PCB type 为PCB焊接式; Nil: plug in type 快接式                                      |             |            |            |          |          |          |
| 7 Enclosure 封装方式: S: Sealed (sealed only for without bracket version)密封胶限光背款; Nil: unsealed        |             |            |            |          |          |          |

**Contact Data 触点参数**

|   |                            |                             |
|---|----------------------------|-----------------------------|
| Contact Form 触点形式                       | 1A (SPSTNO)、1C (SPDT(B-M)) |                             |
| Contact Material 触点材料                   | Ag Alloy                   |                             |
| Contact Rating (resistive)<br>触点负载 (阻性) | 1A                         | 1C                          |
|   | 100A/14VDC                 | NO:100A/14VDC; NC:60A/14VDC |
| Max. Switching Voltage 最大切换电压           | 75VDC                      |                             |
| Max. Switching Current 最大切换电流           | 100A                       |                             |
| Max. Switching Power 最大切换功率             | 1400W                      |                             |
| Contact Resistance or Voltage drop      | ≤100mΩ                     |                             |
| 耐冲击电流 Instantaneous shock current       | 350A 2S                    |                             |
| Electrical Life 电气寿命                    | 1×10 <sup>5</sup> 次        |                             |
| Mechanical Life 机械寿命                    | 1×10 <sup>7</sup> 次        |                             |

**Coil Parameter 线圈参数**

| Dash numbers<br>规格 | Coil voltage<br>线圈电压(VDC) |            | Coil resistance<br>线圈电阻<br>Ω±10% | Pickup voltage<br>VDC(Max.)<br>最大起动电压 | Release voltage<br>VDC(Min.)<br>最小释放电压 | Coil power<br>线圈功率 | Operate Time<br>起动时间 | Release Time<br>释放时间<br>*See notes |
|--------------------|---------------------------|------------|----------------------------------|---------------------------------------|--|--------------------|----------------------|------------------------------------|
|                    | Rated<br>额定               | Max.<br>最大 |                                  |                                       |  |                    |                      |                                    |
| 6V                 | 6V                        | 7.8V       | 20                               | 3.9V                                  | 0.6V                                   | 1.8W               | ≤10 ms               | ≤10 ms *1)                         |
| 12V                | 12V                       | 15.6V      | 80                               | 7.8V                                  | 1.2V                                   |                    |                      |                                    |
| 24V                | 24V                       | 31.2V      | 320                              | 15.6V                                 | 2.4V                                   |                    |                      |                                    |

Notes: \*1) With resistance + 5ms; With diode + 10ms

\*2) With diode + 10ms

### Operation condition 工作条件

|                            |                           |   |
|----------------------------|---------------------------|---|
| Insulation Resistance 绝缘电阻 |                           | 100MΩ Min. (at 500VDC)                                  |
| Dielectric Strength 介电耐压   | Between Contacts          | 50Hz 500VAC / 1 minute                                  |
|                            | Between Coil and Contacts | 50Hz 750VAC / 1 minute                                  |
| Shock resistance 抗冲击       |                           | 147m/s <sup>2</sup> 11ms                                |
| Vibration resistance 抗震    |                           | 10~40Hz double amplitude 1.5mm                          |
| Terminals strength 引出端强度   |                           | 100N , 50N(for PCB type)                                |
| Solderability 可焊性          |                           | 235℃±2℃ 3±0.5s  |
| Ambient Temperature 环境温度   |                           | -40℃ ~ +85℃(Standard 常规); -40℃ ~ +125℃(Special 特殊需求要说明) |
| Relative Humidity 相对湿度     |                           | 85% (at 40℃)  |
| Weight 重量(Approx.)         |                           | 38g, 40g(Insulation Bracket), 45g(Metal Bracket)        |

### Layout (Bottom views, Unit: mm)外形尺寸、接线图 (底视图)

