



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; B: 1B; 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 (except insulation bracket version); Nil: unsealed						

**Contact Data 触点参数**

Contact Form 触点形式	1A (SPSTNO)、1B (SPSTNC)、1C (SPDT(B-M))		
Contact Material 触点材料	Ag Alloy		
Contact Rating (resistive) 触点负载 (阻性)	1A	1B	1C
	100A/14VDC	80A/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 接触电阻或接触压降	≤100mΩ		
Electrical Life 电气寿命	1×10 <sup>5</sup>		
Mechanical Life 机械寿命	1×10 <sup>7</sup>		

**Coil Parameter 线圈参数**

Dash numbers 规格	Coil voltage 线圈电压(VDC)		Coil resistance 线圈电阻 Ω±10%	Pickup voltage VDC(Max.) 最大起动作电压	Release voltage VDC(Min.) 最小释放电压	Coil power 线圈功率	Operate Time 起动时间	Release Time 释放时间
	Rated 额定	Max. 最大						
6V	6V	7.8V	20	3.9V	0.6V	1.8W	≤7 ms	≤5 ms
12V	12V	15.6V	80	7.8V	1.2V			
24V	24V	31.2V	320	15.6V	2.4V			

### 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℃
Relative Humidity 相对湿度		85% (at 40℃)
Weight 重量(Approx.)		39g, 42g(Insulation Bracket), 47g(Metal Bracket)

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

Dimensions / Wiring diagram (Bottom views)

**Standard**

**Insulation Bracket**

**Metal Bracket**

**Terminal Layout (Bottom views)**

**PCB type**

**Wiring diagram (Bottom views)**

1A Coil: standard

1B Coil: with Resistance

1C Coil: with Diode

### Reference Data 性能曲线图

