



Features

- Superminiature;
- Contact load capacity up to 20A at 14VDC;
- Terminal types as inserting;
- Pc board mounting;
- Suitable for household appliances, electrical equipment, automation system, and automobile industry application.

Open type 15.5×13×18 Sealed type 17.5×15×19.5

Ordering Information 订货说明

WM660	- 12	- A	- S
1	2	3	4

1 Part number 继电器型号: WM660
 2 Coil rated voltage(VDC)线圈额定电压: 6: 6V; 9: 9V; 12: 12V; 24: 24V
 3 Contact form 触点形式: A: 1A; C: 1C; U: 2A; W: 2C
 4 Enclosure 封装方式: S: Sealed type; Nil: Open type

Contact Data 触点参数

Contact Form 触点形式	1A (SPSTNO)、1C (SPDT(B-M))、1U (SPSTNODM)、1W (SPDTNC-NO)			
Contact Material 触点材料	AgSnO2			
Contact Rating (resistive) 触点负载 (阻性)	1A	1C	1U	1W
	20A/14VDC	20A/14VDC	2×20A/14VDC	2×10A/14VDC
Max. Switching Voltage 最大切换电压	75VDC			
Max. Switching Current 最大切换电流	20A			
Max. Switching Power 最大切换功率	1A, 1C, 1W: 280W; 1U: 2×280W			
Contact Resistance or Voltage drop 接触电阻或接触压降	≤100mΩ			
Electrical Life 电气寿命	1×10 ⁵ 次			
Mechanical Life 机械寿命	1×10 ⁷ 次			

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.) 最大起动车电压	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	36	4.5V	0.6V	1.0W	≤10ms	≤5ms
9V	9V	11.7V	81	6.75V	0.9V			
12V	12V	15.6V	145	9.0V	1.2V			
24V	24V	31.2V	576	18.0V	2.4V	1.2W	≤10ms	≤5ms
12V	12V	15.6V	120	9.0V	1.2V			

Operation condition 工作条件

Insulation Resistance 绝缘电阻		100MΩ Min. (at 500VDC)
Dielectric Strength 介质耐压	Between Contacts	50Hz 750VAC / 1 minute
	Between Coil and Contacts	50Hz 1500VAC / 1 minute
Shock resistance 抗冲击		100m/s ² 11ms
Vibration resistance 抗震		10~40Hz double amplitude 1.27mm
Terminals strength 引出端强度		10N
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.)		9g(Open type)、12g(Sealed type)

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

Dimensions / Wiring diagram (Bottom views)

Open type dimensions:
 Max 15.5 (width), max 13 (width), max 18 (height), 3.4 (terminal offset)

Sealed type dimensions:
 Max 15 (width), Max 19.5 (height), 3.3 (terminal offset), 0.3 (terminal offset), 0.8 (terminal offset), 2-∅0.7 (terminal hole), 2.1 (terminal hole), Max 17.5 (width), 4-0.5×0.8 (terminal hole)

Terminal Layout (Bottom views):
 3.8 (width), 8.9 (width), 10.16 (height)

Wiring diagram (Bottom views):
 1A, 1C, 1U, 1W

Reference Data 性能曲线图

