

Automotive Relays **WM689** 汽车继电器 **WM689**

L×W×H(mm):32.6×25.2×21

**Features**

- Small size and light weight;
- Contact load capacity up to 30A;
- Blade fuse design
- Terminal types as inserting ,With metal frame;
- Suitable for automobile and lamp accessories application.

**Ordering Information 订货说明**

<u>WM689</u>	<u>- 12</u>	<u>- A</u>	<u>- 15</u>
1	2	3	4
1 Part number 继电器型号: WM689			
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: Form A;			
4 Contact load 触点负载: 15: 15A/14VDC; 30: 30A/14VDC			

**Contact Data 触点参数**

Contact Form 触点形式	1A (SPSTNO)
Contact Material 触点材料	Ag Alloy
Contact Rating (resistive) 触点负载 (阻性)	1A 30A/14VDC
Max. Switching Voltage 最大切换电压	75VDC
Max. Switching Current 最大切换电流	30A
Max. Switching Power 最大切换功率	420W
Contact Resistance or Voltage drop 接触电阻或接触压降	≤50mΩ
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 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	1.2V	1.8W	≤7 ms	≤5 ms
12V	12V	15.6V	80	7.8V	2.4V			
24V	24V	31.2V	320	15.6V	4.8V			

### 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 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
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.)		32g

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

Dimensions / Wiring diagram (Bottom views)

The technical drawings include:

- Shrouded type with bracket:** A detailed view of the relay's top and side profiles with dimensions such as 19.1, 0.752, 14.9, 0.587, 9, 0.354, 5.3, 0.209, 16.3, 0.256, 13.5, 0.531, 27.5, 1.083, 12, 0.472, 25.2max., 0.992max., 0.201, 0.8, 0.031, 24.5, 0.965, 34.6max., 1.362max., 32, 1.260, 21, 0.827, 6, 0.236, 11.5, 0.453, 4.25, 0.167, 4-6.3X0.8, 0.248X0.031, 4.85, 0.191, 34.6, 1.362, 36max., 1.417max., 4-∅1.7, and ∅0.067.
- Mounting (Bottom view):** Shows the bottom of the relay with terminal positions 86, 85, 87, and 30. Dimensions include 16.8, 0.661, 4-7×1.2, 0.276×0.047, 8.4, 0.331, 17.9, and 0.705.
- Wiring diagram (Bottom view):** A schematic showing the electrical connections between terminals 86(+), 85, 87, and 30, with a note 'Fuse-wise'.