

Automotive Relays **WM620Q**

L×W×H(mm):35.5×35.5×45(+24)

**Features**

- Miniature;
- Contact load capacity up to 40A;
- Terminal types as inserting;
- Sealed type available, only for without bracket version.

Ordering Information

<u>WM620Q</u>	<u>- 12</u>	<u>- A</u>	<u>- M</u>	<u>R</u>	<u>xxx</u>
1	2	3	4	5	6
1 Part number: WM620Q					
2 Coil rated Voltage(VDC): 6: 6V; 12: 12V; 24: 24V; 48: 48V					
3 Contact Form: A: 1A; C: 1C; U: 1U					
4 Cover: M: With Metal Bracket; Nil: Without Metal Bracket;					
5 Coil transient suppression: D: with diode.; R: with resistance; Nil: standard					
6 xxx: Customer special specification					

Contact Data

Contact Form	1A (SPSTNO)、1C (SPDT(B-M))、1U (SPSTNODM)		
Contact Material	Ag Alloy		
Contact Rating (resistive)	1A	1C	1U
	40A/14VDC	NO: 40A/14VDC NC: 30A/14VDC	2×20A/14VDC
Max. Switching Voltage	75VDC		
Max. Switching Current	40A		
Max. Switching Power	560W		
Contact Resistance or Voltage drop	≤100mΩ		
Electrical Life	1×10 ⁵ ops		
Mechanical Life	1×10 ⁷ ops		

Coil Parameter

Dash numbers	Coil voltage (VDC)		Coil resistance Ω±10%	Pickup voltage VDC(Max.)	Release voltage VDC(Min.)	Coil power	Operate Time	Release Time *See notes
	Rated	Max.						
6V	6V	7.8V	22.5	3.9V	0.6V	1.6W	≤10 ms	≤10 ms *1)
12V	12V	15.6V	90	7.8V	1.2V		≤15 ms	≤15 ms *2)
24V	24V	31.2V	360	15.6V	2.4V		≤20 ms	≤20 ms *2)
48V	48V	62.4V	1440	31.2V	4.8V			

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

*2) With diode + 10ms

Operation condition

Insulation Resistance		100MΩ Min. (at 500VDC)
Dielectric Strength	Between Contacts	50Hz 500VAC / 1 minute
	Between Coil and Contacts	50Hz 750VAC / 1 minute
Shock resistance		147m/s ² 11ms
Vibration resistance		10~40Hz double amplitude 1.5mm
Terminals strength		100N
Solderability		235°C±2°C 3±0.5s
Ambient Temperature		-40°C ~ +85°C
Relative Humidity		85% (at 40°C)
Weight(Approx.)		37g, 42g(With metal bracket)

Layout (Bottom views, Unit: mm)

Dimensions / Wiring diagram (Bottom views)

Terminal Layout (Bottom views)

Wiring diagram (Bottom views)

Coil: standard

Coil: with Resistance

Coil: with Diode

Coil: standard

Coil: with Resistance

Coil: with Diode

Form A

1A

Form C

1C

1U