

Automotive Relays **WM630**

L×W×H(mm):28×28×25.5(+16)



Features

- Miniature;
- Contact load capacity up to 60A;
- Terminal types as inserting and PCB;
- Suitable for automobile.

Ordering Information

<u>WM630</u>	<u>- 12</u>	<u>- A</u>	<u>- B</u>	<u>R</u>	<u>60</u>
1	2	3	4	5	6
1 Part number: WM630 2 Coil rated Voltage(VDC): 6: 6V; 12: 12V; 24: 24V; 48: 48V 3 Contact Form: A: 1A; B: 1B; C: 1C; U: 1U; 2A: 2 form A 4 Cover: B: Insulation Bracket; M: Metal Bracket; Nil: No Bracket 5 Coil transient suppression: D: with diode.; R: with resistance; Nil: standard					6 Contact load 60: 1A: 【NO: 60A/14VDC】 1U/2A: 【NO: 2×30A/14VDC】 1B: 【 NC: 40A/14VDC】 1C 【NO: 60A/14VDC, NC: 40A/14VDC】 40: 1A: 【NO: 40A/14VDC】 1U/2A: 【NO: 2×20A/14VDC】 1B: 【NC: 30A/14VDC】 1C: 【NO: 40A/14VDC , NC: 30A/14VDC】

Contact Data

Contact Form	1A (SPSTNO)、1B (SPSTNC)、1C (SPDT(B-M))、1U (SPSTNODM)、2A				
Contact Material	Ag Alloy				
Contact Rating (resistive)		1A	1B	1C	1U、2A
	60	60A/14VDC	40A/14VDC	NO: 60A/14VDC NC: 40A/14VDC	2×30A/14VDC
	40	40A/14VDC	30A/14VDC	NO: 40A/14VDC NC: 30A/14VDC	2×20A/14VDC
Max. Switching Voltage	75VDC				
Max. Switching Current	60A/40A				
Max. Switching Power	840W/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℃±2℃ 3±0.5s
Ambient Temperature		-40℃ ~ +85℃
Relative Humidity		85% (at 40℃)
Weight(Approx.)		32g, 33g(Insulation Bracket), 34g(Metal Bracket)

Layout (Bottom views, Unit: mm)

Dimensions / Wiring diagram (Bottom views)

Insulation Bracket

Metal Bracket

Standard

Terminal Layout (Bottom views)

Wiring diagram (Bottom views)

Coil: standard Coil: with Resistance Coil: with Diode

1A 1B 1C 1U 2A

Reference Data

