

**Features**

- Bolt connection;
- Contact load capacity up to 300A;
- Suitable for automobile.

Ordering Information

<u>WM V231</u>	<u>- 12</u>	<u>- A</u>	<u>R</u>	<u>S</u>
1	2	3	4	5
1 Part number: V231				
2 Coil rated Voltage(VDC): 12: 12V; 24: 24V				
3 Contact Form: A:1 Form A; X: 1 Form X				
4 Coil transient suppression: R: with resistance; NIL: standard				
5 Enclosure: S: Sealed; Nil: unsealed				

Contact Data

Contact Form	1 Form A; 1 Form X
Contact Material	Ag•SnO ₂
Contact Rating (resistive)	1: 10, 300A/13.5VDC; 150A/27VDC
Max. Switching Voltage	40VDC
Max. Switching Current	300A
Max. Switching Power	4050W
Contact Resistance or Voltage drop	≤30mΩ
Electrical Life	5×10 ⁴ 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.						
12V	12V	15.6V	37	7.2V	1.2V	3.9W	≤10 ms	≤10 ms *1)
24V	24V	31.2V	141	14.4V	2.4V	4.1W	≤15 ms	≤15 ms *2)

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
	Between Coil and Contacts	50Hz 1000VAC
Shock resistance		6ms>20g ²
Vibration resistance		10~200Hz>5g ²
Terminals strength		8N
Solderability		235℃±2℃ 3±0.5s
Ambient Temperature		-40℃~125℃
Relative Humidity		93% (at 40℃)
Mass		220g

Layout (Unit: mm)

