



High Voltage Contactor WM682

L×W×H(mm):66×34×52.5mm



- 1 Form A (SPST-NO) contact arrangement;
- The working temperature is up to 85°C;
- Coils can be matched with diodes or resistors;
- Compact structure, good safety;
- With Arc-extinguishing devices;
- Typical applications: electric control system of electromobile, motor forklift, Accessory relays for high voltage system,air conditioner,warm air blower and other devices.

Ordering Information

<u>WM682</u>	<u>- 12</u>	<u>A</u>	<u>-D</u>	<u>-S</u>	<u>-Q</u>	<u>XXX</u>
1	2	3	4	5	6	7
1 Part number: WM682						
2 Coil rated Voltage(VDC): 12: 12V; 24: 24V; 48:48V						
3 Contact Form: A: 1 Form A						
4 Coil transient suppression: D: with diode.; R: with resistance; Nil: standard						
5 Enclosure: S: Sealed;						
6 Coil pin type: Nil: Wire type (without quick connector) ; Q: Wire type (with quick connector);						
7 Customer special code (length of wire, type of connector)						

Contact Data

Contact Form	1A (SPSTNO)
Contact Material	Silver alloy
Contact Rating (resistive)	50A/110VDC
Max. Continuous current rating	90 Amps @ 23 °C
Max. Switching Current	300A
Max. Switching Voltage	220VDC
Max. Switching Power	5.5kW
Contact Resistance or Voltage drop	≤80mV (@ 10A 13.5V)
Mechanical Life	1×10 ⁷ cycles
Electrical Life (at 23 °C)	50000 cycles (10A/200VDC, 5A/220VDC)
1s on 5s off	50000 cycles (35A/110VDC), 15000 cycles (50A/110VDC) 50000 cycles (45A/96VDC), 50000 cycles (60A/72VDC), 50000 cycles (80A/60VDC), 100000 cycles (90A/12VDC ~ 48VDC)

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
	Rated	Max.						
12V	12	15.6	60	7.8	1.2	2.4W	<50 ms	<50 ms
24V	24	31.2	240	15.6	2.4			
48V	48	62.4	960	31.2	4.8			

Operation condition

Insulation Resistance		100MΩ Min. (at 500VDC)
Dielectric Strength	Between Contacts	1000VAC / 1 min. (test current: 10mA)
	Between Coil and Contacts	1000VAC / 1 min. (test current: 10mA)
Ambient Temperature		-40°C ~ +85°C
Shock resistance	Operating extreme	96m/s ² {10G} (Sine half wave: 11ms,10μs)
	Damage Limit	960m/s ² {100G}(Sine half wave: 6ms)
Vibration resistance		10 ~ 500Hz, 49m/s ² {5G}
Relative Humidity		25% ~ 80%RH (at 40°C)
Installation direction		Horizontal
Terminal type		Wire type(coil) , M6 screw type(load)
IP level IP		IP67
Weight(Approx.)		90g

Layout (Bottom views, Unit: mm)

