

DC High Voltage Contactor

L×W×H(mm):32×26.5×23.5(+15)mm

WM684H



- 1 Form C 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>WM684H</u>	<u>- 24</u>	<u>C</u>	<u>- M</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>XXX</u>
1	2	3	4	5	6	7	8
<p>1 Part number: WM684H 2 Coil rated Voltage(VDC): 24: 24VDC 3 Contact Form: C: 1 Form C 4 Cover: M: Metal Bracket (the hole diameter is 5.2mm) 5 Coil transient suppression: Nil: standard 6 Terminals: Nil: QC type 7 Enclosure: Nil: Unsealed 8 xxx: Customer special code</p>							

Contact Data

Contact Form	1C (1 Form C)	
Contact Material	Silver alloy	
Contact Rating (resistive)	28VDC 60/40A	
Min. switch current	100mA/ 12VDC	
Max. Switching Current	150A @ 12.8V 3 Sec	
Max. Switching Voltage	145VDC	
Max. Switching Power	3300W	
Contact Resistance or Voltage drop	≤60mV (@ 20A)	
Mechanical Life	1×10 ⁶ cycles	
Electrical Life(at 23 °C, resistive) 1s on 5s off	NO	100000 cycles : 60A/28VDC
	NC	100000 cycles : 40A/28VDC

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.						
24V	24	31.2	360	15.6	2.4	1.6W	<15 ms	<15 ms

Operation condition

Insulation Resistance		100MΩ Min. (at 500VDC)
Dielectric Strength	Between Contacts	500VAC / 1 min. (test current: 10mA)
	Between Coil and Contacts	750VAC / 1 min. (test current: 10mA)
Ambient Temperature		-40°C ~ +85°C (Standard)
Shock resistance	Operating extreme	42m/s ² {4.4G} (Sine half wave: 11ms, 10μs)
	Damage Limit	288m/s ² {30G}(Sine half wave: 8ms, 10μs)
Vibration resistance		10 ~ 500Hz, 49m/s ² {5G}
Relative Humidity		25% ~ 80%RH (at 40°C)
Terminal type		QC type
Weight(Approx.)		80g

Layout (Bottom views, Unit: mm)

Dimensions

Terminal Layout (Bottom views)

Wiring diagram (Bottom views)