

Version: V4.1

SEC250



Feature

- •200 amps continuous carry, 2000 amps interrupte under extreme condition.
- •Hermetically sealed with hydrogen gas, the arc is not exposed. Be able to use in explosive & harsh environments without oxidation or contamination of contacts. Contacts' part meet IP67 protection degree.
- •Not position sensitive- can be mounted in any position for ease of installation.
- •RoHS compliant.

Contact Data

Contact Data				
Item		Information		
Contact arrangement		Power Contact:1 Form A Auxiliary Contact:1 Form A		
Current rating		200A		
Auxiliary road		1A 30VDC/1A 125VAC		
Contact resistance		≤0.6mΩ (@200A)		
Min.Switching load		12VDC 1A		
Max. Switching voltage		750VDC		
Max. Breaking current		2000A (300VDC, 1 cycle)		
Max. Switching power		188KW		
Electrical life ⁽¹⁾		500V type	750V type	
	Resistive load	500VDC,200A 4000cycles	750VDC,200A 1000cycles	
		500VDC,250A 1500 cycles	750VDC,250A 500cycles	
	Capacitive load	2.5×10 ⁴ cycles 22.5VDC,τ=1ms inrush 400A steady 200A	2.5×10 ⁴ cycles 37.5VDC,τ=1ms inrush 400A steady 200A	
Load current capacity ⁽²⁾		200A: continuity		
		300A: 1h		
		400A: 20min		
		800A: 30s		
		2000A: 0.6s		

- (1) Ambient temperature:23°C, L/R≤1ms.
- (2) Ambient temperature:23°C, 60mm² conductor.
- (3) Other types of rated voltage, please contact us.

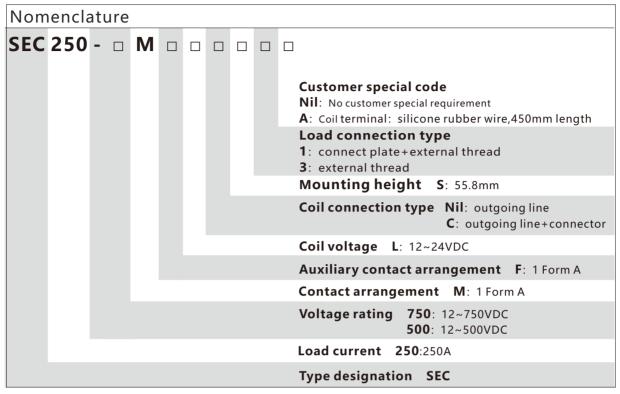
Parameters Table

Item		Information
Mechanical life		5×10 ^s cycles
Insulation resistance		1000MΩ(500VDC)
Dielectric strength	Between open contacts	3300VAC 1min 10mA
	Between contact and coil	3300VAC 1min 10mA
Operate time (at rated coil voltage)		≤50ms
Release time (at rated coil voltage)		≤50ms
Shock resistance	Functional	196m/s² (20G)
	Destructive	490m/s² (50G)
Vibration resistance		10Hz~500Hz 49m/s² (5G)
Ambient temperature		-40℃~85℃
Ambient humidity		5%~95% RH
Weight		Approx.445g
External dimension		77.8mm×66.5mm×73.3mm

Coil Data (3)

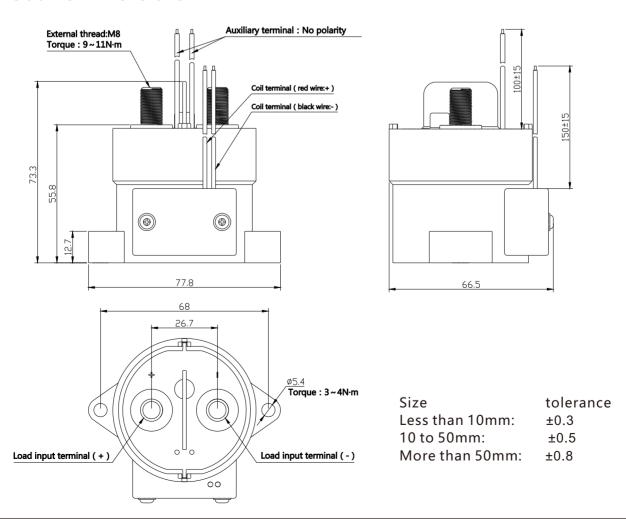
Rated voltage (VDC)	12
Operation voltage (VDC)	12~24
Max. voltage (VDC)	36
Pick-up voltage (VDC)	≤9
Drop-out voltage (VDC)	≥1.0
Coil resistance($\pm 10\%$)(Ω)	3.4
Operating power (inrush, W)	42
Operating power (stable, W)	2.6

Ordering Information



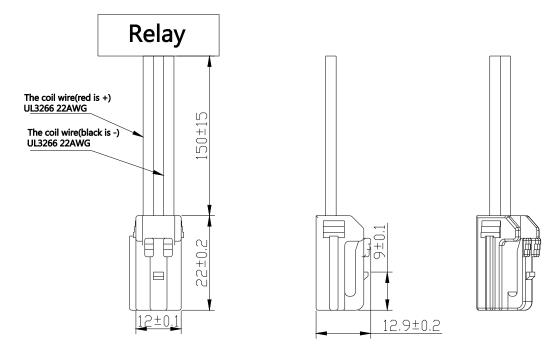
Packing quantity:1pcs Inner carton, 10pcs Outer carton

Outline Dimensions

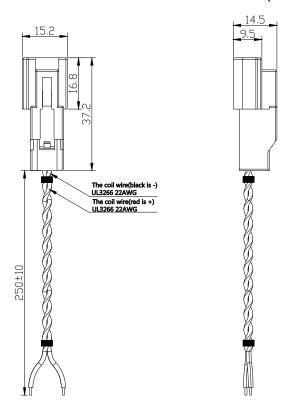


Coil Connection Type C:Outgoing Line+Connector

Connectors: Tian Hai: 0435305 or Yazaki: 7283-1020



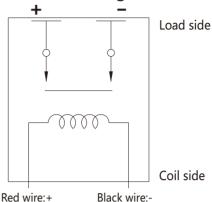
Connectors: Tian Hai:0464705 or Yazaki: 7282-1020(included in the box)



Installation Size Chart



Schematic Diagram



NOTE: The contacts are polarized

NOTES

Mounting Attention

- 1. When installing the relay, always use washers to prevent the screws from loosening.
- 2. Tighten each screw within the rated range given in the outline dimensions. Exceeding the maximum torque may result in breakage.
- 3. Avoid mounting the relay in strong magnetic fields (near a transformer or magnet) or close to an object that radiates heat.

•Electrical Life Attention

- 1. This relay is a DC high-voltage switch. In its final breakdown mode, it may lose the ability to provide the proper cut-off. Therefore, do not exceed the indicated switching capacity and life.
- 2. Please treat the relay as a product with limited life and replace it when necessary.
- 3. The contacts of the relay are polarized. Please follow instructions in the connection schematic when connecting the contacts.
- 4.Be careful that foreign matter and oils and fats kind, don't stick to the main terminal parts because it is likely to cause terminal parts to give off unusual heat. Also, please use the following specifications of conductor.

10A	Min. 2mm² nominal cross-sectional area
20A	Min. 3mm² nominal cross-sectional area
40A	Min. 10mm ² nominal cross-sectional area
60A	Min. 15mm² nominal cross-sectional area
100A	Min. 35mm² nominal cross-sectional area
150A	Min. 45mm² nominal cross-sectional area
200A	Min. 60mm ² nominal cross-sectional area
250A	Min. 80mm ² nominal cross-sectional area
300A	Min. 100mm ² nominal cross-sectional area

Coil Attention

- 1.Please note that when using a diode, the switching speed may decrease and cause a reduction in cut-off performance, we recommend installing a surge protector varistor.
- 2. The pick-up voltage and drop-out voltage will change with ambient temperature, please use rated voltage to make sure the relay operate reliable. Don't exceed maximum coil voltage.
- 3. The 250A and 300A types have built-in dedicated drive circuit, please drive the coil with a quick startup (Built-in one-shot pulse generator circuit).
- 4. After the ON signal enters the 250A and 300A types, automatic coil current switching occurs after approximately 0.1 seconds. Do not repeatedly turn it OFF within that 0.1 seconds interval, as doing so may damage the relay.

Disclaimer:

This datasheet is the customers' reference. All the specification are subject to change without notice.

We could not evaluate all the performance and parameters for every possible application. Thus the users should be in a right position to choose the suitable product for their own application. If there is any query, please contact Sanyou for technical service. However it is the users' responsibility to determine which product should be used only.

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