



Feature:

- Adopt ceramic seal structure , be able to use at explosive or harmful environment, the contact will not be corroded and oxidated.
- The electric arc is destroyed in ceramic seal structure.
- With energy-saving coil circuit and broad coil voltage.
- With a Form A auxiliary contact
- RoHS compliant

Parameters Data

Characteristic	Items	Information	
Contact Data	Power and Auxiliary Contact Form	Power Contact :1 Form A contact Auxiliary Contact:1 Form A contact	
	Nominal Load Current of Power and Auxiliary Contact	Power Contact :200A Auxiliary Contact:≤1A 30VDC/1A 125VAC	
	Max. Switching Voltage	750VDC	
	Max. Breaking Current	2000A 300VDC(more than once)	
	Min. load	1A 12VDC	
	Contact Resistance	≤0.2mΩ(at200A)	
	Outgoing Mode	M8 External Thread	
Electrical Data	Initial Insulation Resistance	Between Contacts : 1000MΩ(500VDC)	
		Between Contact and Coil : 1000MΩ(500VDC)	
		Between Contact and Case : 1000MΩ(500VDC)	
	Initial Dielectric Strength	Between Contacts : 3300Vrms 10mA	
Between Contact and Coil : 3300Vrms 10mA			
Physical Data	Shock Resistance	Stability: 196m/s ² (20G)	
		Durability: 490m/s ² (50G)	
Ambient Data	Vibration resistance	10~200Hz 43m/s ² (4.4G)	
	Ambient Temperature	-40°C~+85°C	
	Ambient Humidity	5%~95%RH	
Endurance Data	Unit Weight	445g	
	Mechanical Endurance	500,000 Cycles	
	Electrical Endurance	Resistive Load	500V
			750V
		Capacitive Load	4000 Cycles (200A 500VDC)
10,00 Cycles (200A 750VDC)			
Resistive Load	1500 Cycles (250A 500VDC)		
	500 Cycles (250A 750VDC)		
Capacitive Load	25000 Cycles (22.5VDC τ=1ms inrush 400A, steady 200A)		
	25000 Cycles (37.5VDC τ=1ms inrush 400A, steady 200A)		

Coil Data(at 20°C)

Rated Voltage (VDC)	12
Operation Voltage (VDC)	12~24
Max. Voltage (VDC)	36
Pick-up Voltage (VDC)	≤9
Drop-out Voltage (VDC)	≥1
Coil Resistance(±10%)(Ω)	3.4
Starting Power (W)	42
Steady Power (W)	2.6
Operation Time (ms)	≤50
Release Time (ms)	≤30

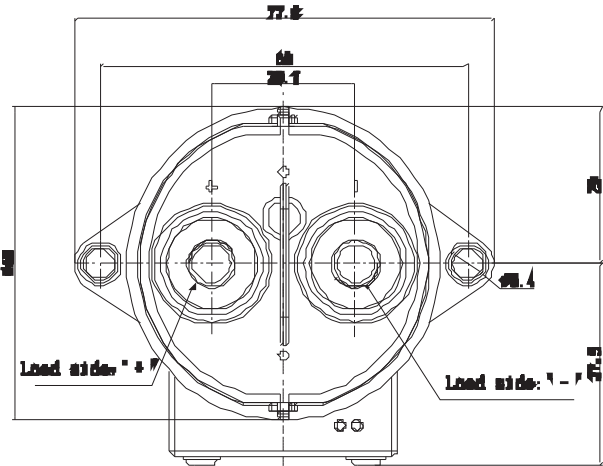
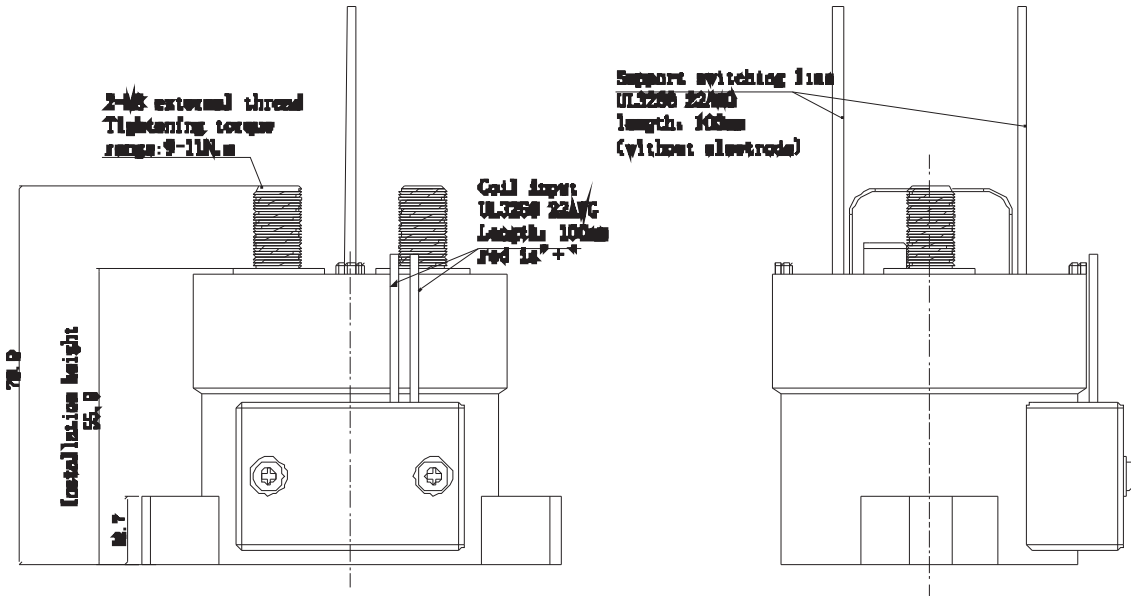
Note : Coil data is based on coil without resistance or diode.

Ordering Information

Nomenclature	
SEC	250 - [] M [] L [] S [] [] Customer features label
	Load connection type: 1:connection piece+external thread 3:external thread
	S:Installation height 55.8mm
	Coil connection type: Nil: outgoing line C: outgoing line+connector
	Coil Voltage (VDC) : L:12~24
	Support Contact: Nil: without auxiliary contact F: with auxiliary contact(NO)
	Number of Poles: M:1 Form A contact
	Load Voltage : 500:500VDC 750:750VDC
	Load current : 200A
	Type Designation: SEC

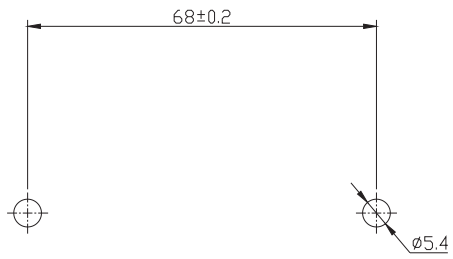
Note: The outgoing line length is 100mm.

Outline Dimensions



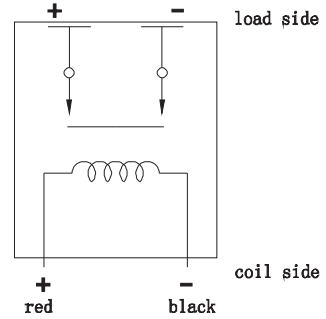
Unless otherwise specified:
 If dimension ≤ 10 mm, tolerance: ±0.3mm;
 If dimension 10-50 mm, tolerance: ±0.5mm;
 If dimension ≥ 50 mm, tolerance: ±0.8mm;

Installation Size Chart



Please tightening the relay at the torque range:3-4Nm

Schematic Diagram

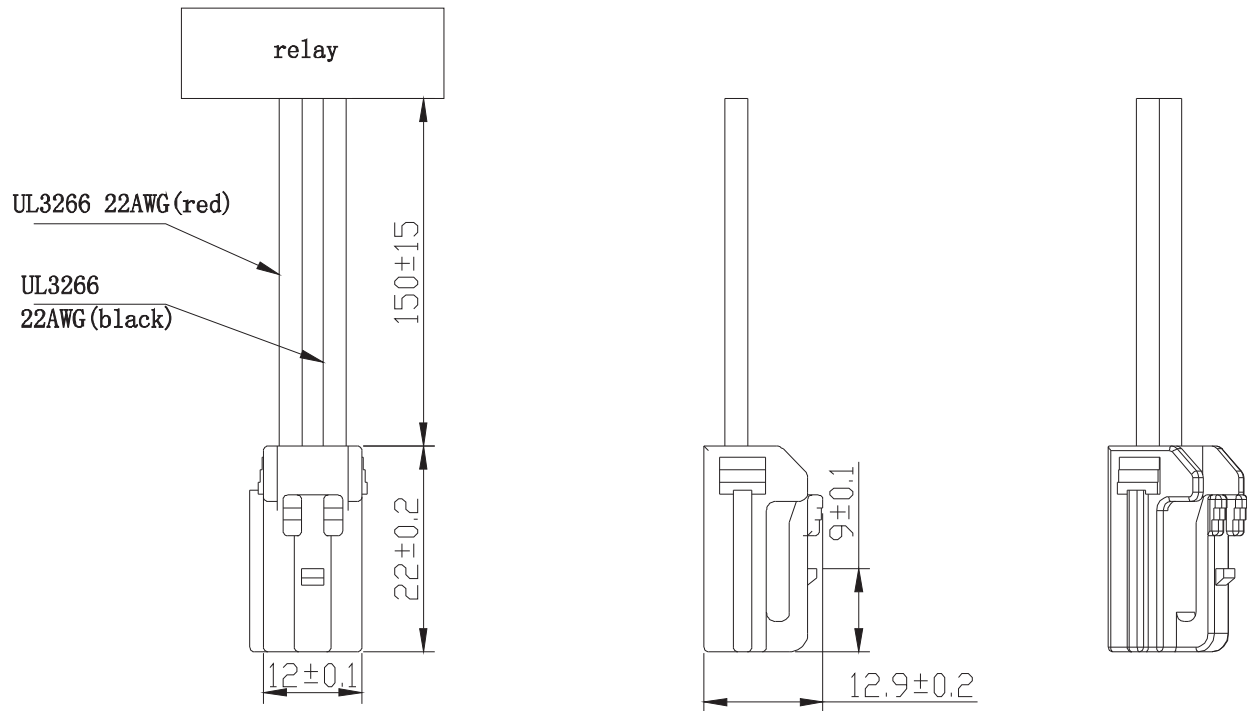


The load side has positive and negative electrode

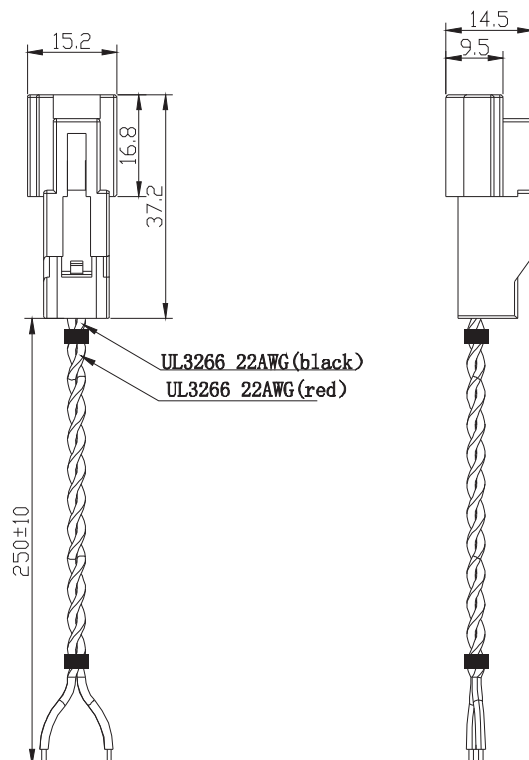
Coil connection type

C:Outgoing Line+Connector

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

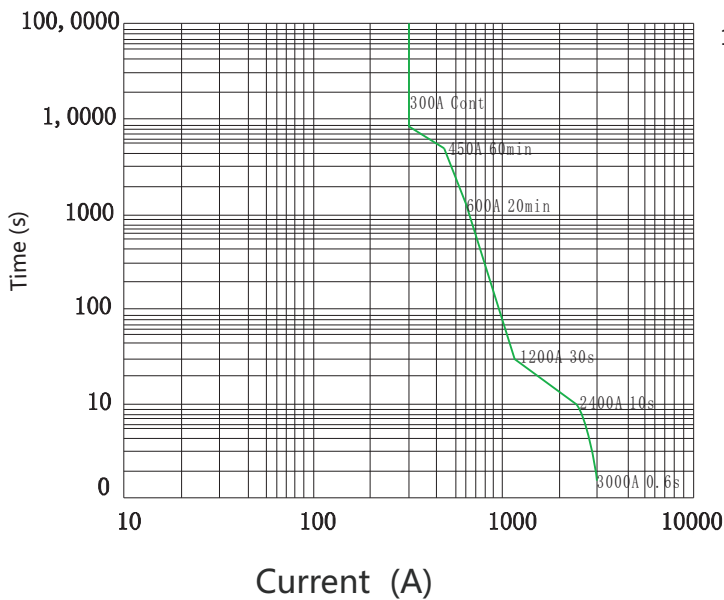


Connectors : Tian Hai :0464705 or Yazaki : 7282-1020(included in the box)



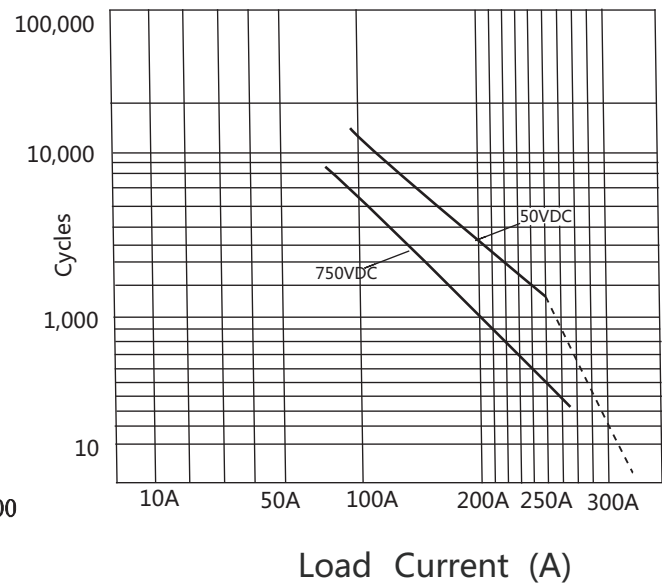
Reference Data

Load capacitive



Estimated switch life with load

(Resistive load ON:OFF=1s:9s)



Instructions

1. Use and transport conditions

- 1) temperature: $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$
- 2) humidity: $5 \sim 95\% \text{RH}$
- 3) atmosphere pressure: $86 \sim 106 \text{Kpa}$

2. When install the relay, you must using the gasket to prevent the screw become flexible.

3. The tightening torque of screw refers to the Outline Dimensions, and the gas inside the sealing member is H_2 . If the torque range is exceeded, the sealing member may be destroyed and it will be dangerous.

4. Please regard the relay as a product within a service life. Don't exceed its capacity of the switch and service life. Please change in time as necessary.

5. The load output of the relay has positive and negative electrode, please refer the Wiring Diagram to connect it.

6. Be careful and don't stain the connection part of contact with foreign bodies and oil, it may lead to abnormal heat dissipation. Please use the connecting bus with nominal sectional area ($\text{Min. } 60 \text{mm}^2$).

7. Please avoid applying to the terminal with excessive load, if the load of nominal range is exceeded, it will affect the function of switch.

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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