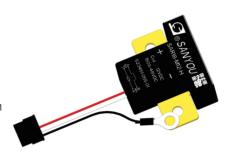


Features:

- Rated 150A contact switching capacity.
- Not position sensitive- can be mounted in any position for ease of installation.
- Meet the requirements for responding to abnormal working conditions and be able to switch to 10-times curren
- Can be used in 48V battery pack start-stop systems



Contact Data						
		1 F A				
Contact arrangement	1 Form A					
Contact material	AgSnO2					
Contact Resistance	≤0.75mΩ (@12V 150A)					
Contact Rating (resistiv	150A 48VDC					
Max. Contact Voltage	70VDC					
Operate Time (at nominal volt.)		≤40ms				
Release Time (at nominal volt.)		≤20ms				
Bounce time (at nominal v	olt.)	≤5ms				
Floatrical and warmen		100A,70VDC, 1.5×10⁴ops				
Electrical endurance (resistive load) (1)		150A,70VDC, 5.0×10³ops				
		200A,70VDC, 200 ops				
		10A,70VDC, 200 ops				
	400A,70VDC, 65 ops					
Breaking Current (2)		500A,70VDC, 45 ops				
		1000A,55VDC, 20 ops				
	2500A,55VDC, 4 ops					
		3300A,55VDC, 1 ops				
Load current capacity		150A, 4H				
		175A, 15min				
		350A,30s				
		750A,7s				
(3)		1500A,1s				
		2000A,100ms				
		2500A,10ms				
Note:						

- (1) Electrical life test: @65°C,(on:off) 0.6s:5.4s, copper bar cross-section 25mm^2
- (2) Ultimate breaking test: @ 65° C, (on:off) 0.02s:5.4s, copper bar cross-section 25mm^2
- (3) Anti-short-circuit capability test: @ 85°C, copper bar cross-section 25mm²

Coil Data

Nominal Voltage VDC	Max. Operate Voltage VDC	Min. Release Voltage VDC	Max. Allowable Voltage VDC	Coil Resistance (1±10%) Ω	Coil Power W	Holding Voltage
12	10	1.2	16	48	3	35% to 80% Nomi. Volt.(at 23℃) 40% to 60% Nomi. Volt.(at 85℃)
24	20	2.4	32	192		
48	36	4.8	60	768		

- (1) To prevent the coil from overheating, do not continuously apply the maximum voltage for an extended period.
- (2) The coil holding voltage is the voltage applied to coil 100ms after the rated voltage

Insulation Data						
Insulation resistance	100MΩ (500VDC)					
Initial dielectric strength(Leakage current≤1mA)						
Between open contacts	1000VAC,50/60Hz,1min					
Between contact and coil	1000VAC,50/60Hz,1min					
Other Data						
Material compliance	EU RoHS/ELV, China RoHS, REACH					
Temperature rise	<70K,@150A,85℃ copper bar cross-section 25mm²)					
Shock resistance	Functional 50G Destructive 100G					
Vibration resistance	According to LV124-M04, the acceleration is 30.8m/s²					
Mechanical endurance	5×10⁵ops					

Note: The above values are initial values

Ambient temperature

Terminal Configuration

Protection Degree

Humidity

Weight

Noise

-40°C to +85°C

5% to 85%RH

coil:connector

60dB (40cm)

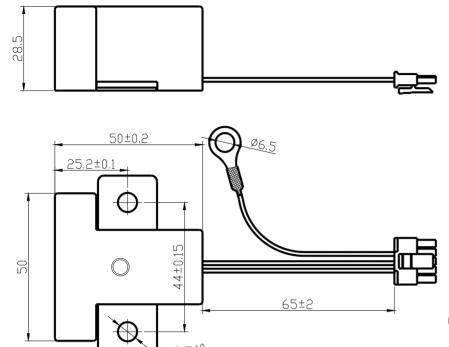
110g±5g

IP64

Terminal: M6 through hole



Dimensions



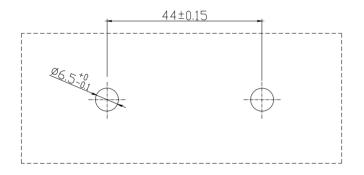
Unless otherwise specified:

If dimension ≤10mm, tolerance: ±0.3mm.

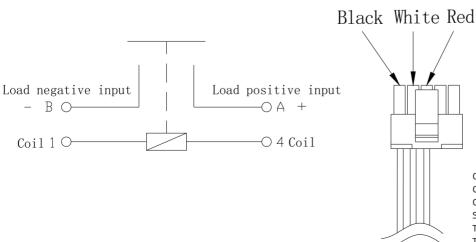
If dimension 10~50mm, tolerance: ±0.5mm.

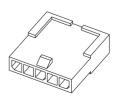
If dimension > 50mm, tolerance: ±0.8mm.

Wiring diagram



Wiring Diagrams





Coil end definition:

Connect Type: Molex 436450500

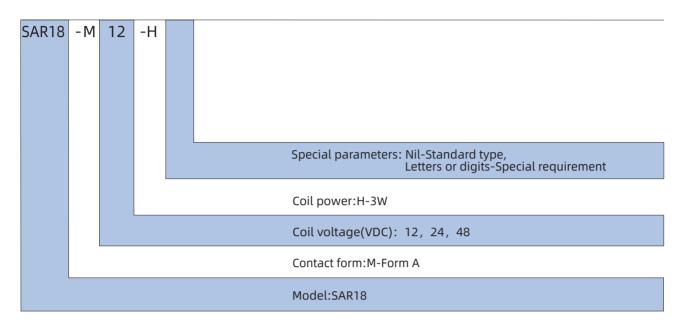
Crimping terminal Type: Molex430300001

Shell Type: Molex436400501 The white wire is "coil lead -" The red wire is "coil lead +"

The black wire is "terminal signal detection"



Product Code Structure



Note: The customer's special requirements need to be formulated together with Sanyou.

Disclaimer

This product specification is for reference only, subject to change without prior notice. It is not possible for Sanyou to evaluate all the performance parameter requirements of relays in each specific application field, so customers should choose the suitable product according to the specific application conditions. If you have any questions, please contact us for more technical support, but the customer should be responsible for product selection.