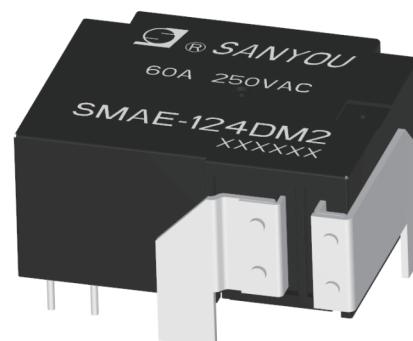


Features:

- 60A contact switching capability
- Low coil power consumption, impulse drive
- Excellent anti-shock ability and high reliability
- Dielectric strength between coil and contact :2.5KV
- Single and dual coil relays available
- Environmental friendly product (RoHS Compliant)

Typical Application

- Intelligent electric meters, Electric remote control
Composite power switch, Electrical Equipment



Contact Data

Contact arrangement	1 Form A
Contact material	AgSnO ₂
Contact Resistance	2mΩ Max.(6VDC 20A)
Contact Rating (resistive load)	60A 250VAC
Max. Contact Voltage	250VAC
Max. Contact Current	60A
Max. Breaking Capacity	15000VA
Min. recommended contact load	100mA 6VDC
Operate Time (at nominal volt.)	≤15ms
Release Time (at nominal volt.)	≤15ms
Electrical endurance	60A,250VAC, resistiveload, 23℃,1s on : 9s off,1×10 ⁴ ops.

Coil Data

Nominal Voltage VDC	Single Coil Resistance (1±10%) Ω	Double Coil Resistance (1±10%) Ω		Max. Operate Voltage VDC	Min. Release Voltage VDC	Pulse Width (ms)	Coil Power W
5	25	12.5	12.5	80% Nominal Voltage	80% Nominal Voltage	100Min.	Single/ Double: 1.0W/ 2.0W
6	36	18	18				
9	81	40.5	40.5				
12	144	72	72				
24	576	288	288				
48	2340	1152	1152				

Insulation Data

Insulation resistance	1000MΩ (500VDC)
Initial dielectric strength	
between contact sets	1500VAC, 50/60Hz 1min.
between contact and coil	2500VAC, 50/60Hz 1min.

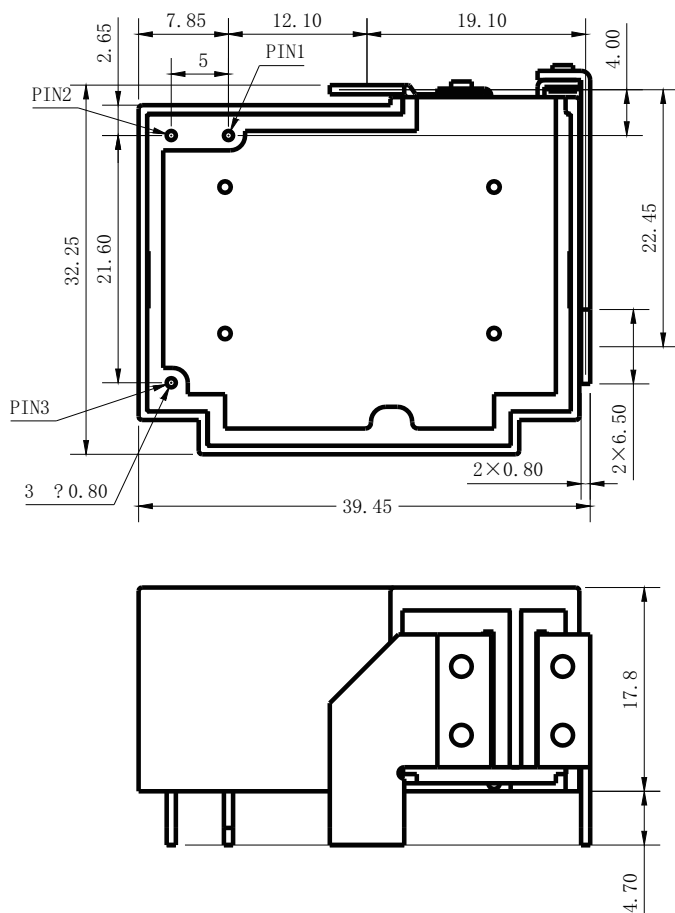
Other Data

Material compliance	EU RoHS/ELV, China RoHS, REACH		
Shock resistance	Functional	98m/s ²	
	Destructive	980m/s ²	
Vibration resistance	10Hz to 55Hz 1.0mm DA		
Mechanical endurance	1×10 ⁵ ops		
Ambient temperature	-30℃ to +55℃		
Humidity	20% to 85%RH		
Termination	PCB		
Weight	40g		

Note:

The above values are initial values

Dimensions(Long PIN 4.7mm)

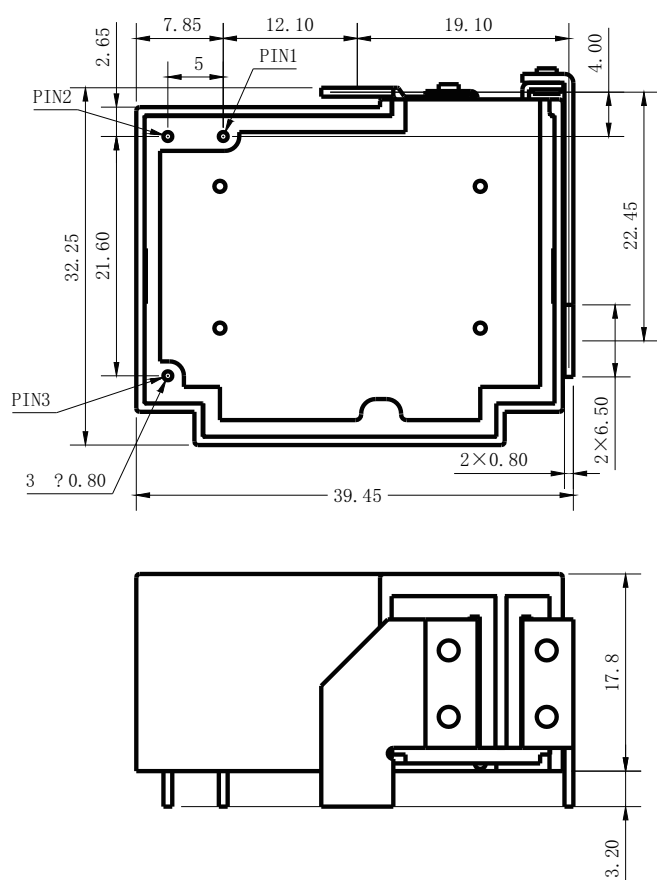


Size tolerance

2 decimal place: $\pm 0.25\text{mm}$

1 decimal place: $\pm 0.3\text{mm}$

Dimensions(Short PIN 3.2mm)

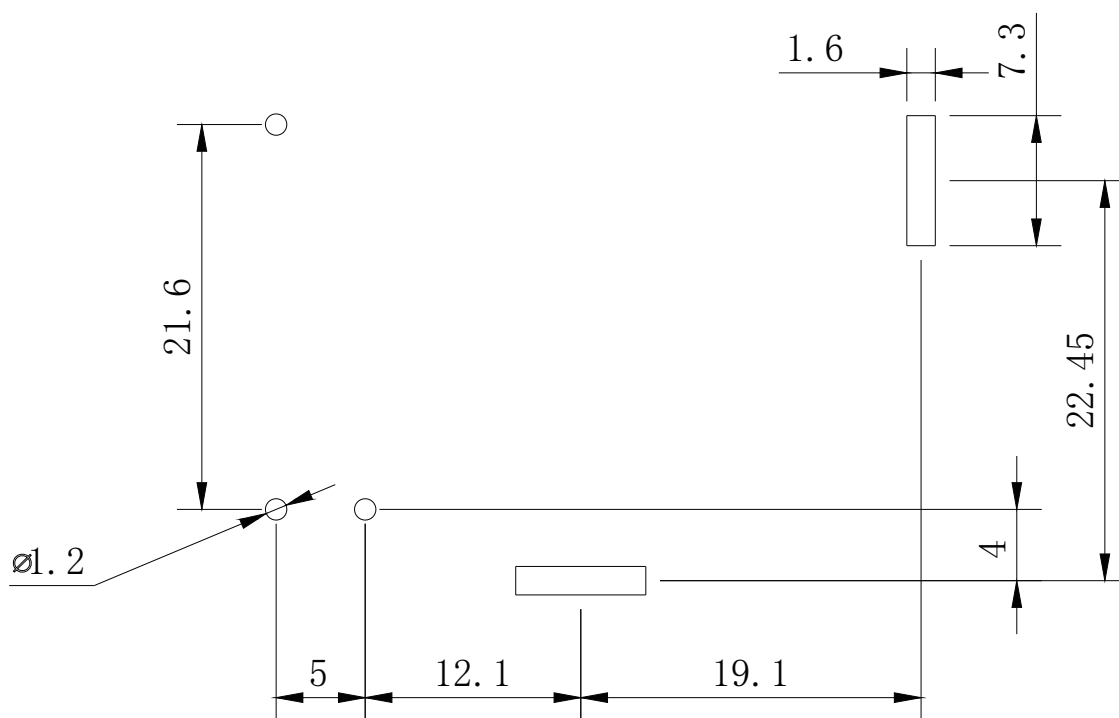


Size tolerance

2 decimal place: $\pm 0.25\text{mm}$

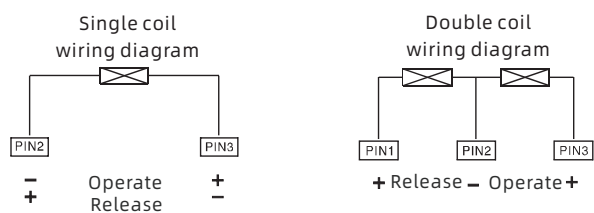
1 decimal place: $\pm 0.3\text{mm}$

Wiring diagram (bottom view)

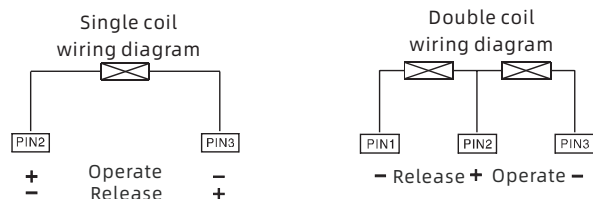


Wiring Diagrams

standard polarity



reversed polarity



Product Code Structure

SMAE	-1	12	D	M	2	R	-XX	
								Special parameters: Nil-Long PIN 4.7mm , OP2-Short PIN 3.2mm
								Polarity: Nil-Positive polarity, R-Reverse polarity
								Coil Type:1-Single coil,2-Dual coils
								Contact Form: M-Form A , B-Form B
								Coil Power: D:Standard type -Single/Dual:1.0W/2.0W
								Coil specification: 05, 06, 09, 12, 24, 48 (VDC)
								Number of Poles: 1-1 Pole
								Basic model: SMAE

Note:

- (1) Flux-proof type can not be used in polluted environment containing H₂S, SO₂, NO₂, dust and other pollutants.
- (2) Water cleaning or surface process is not suggested after the flux-proofed relays are assembled on PCB..
- (3) Customer special requirements (XX) shall be evaluated by our company and marked by specail suffix.

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.