

Features:

- 55A high switching capability
- Most suitable for solar photovoltaic power inverter, UPS
- Contact gap:2.0mm , 2.3mm (IEC62109-2-2011and VDE0126)
- Material compliance (Compliant with RoHS)









Approvals

UL (File No.): E179745-1-31 TUV (File No.): R50540861

CQC (File No.): CQC22002336810

Contact Data

Contact arrangement	1 Form A
Contact material	AgSnO2
Contact Resistance	100mΩ max(@ 6VDC 20A)
Contact Rating (resistive load) 55A 250VAC
Max. Contact Voltage	277VAC
Max. Contact Current	55A
Max. Breaking Capacity	15235VA
Min. recommended contact load	I 1A,6VDC
Operate Time (at nominal volt.)	≤20ms
Release Time (at nominal volt.)	≤10ms
	ng 20A, Carrying 55A , king 20A.277VAC.resistive

load,85°C,1s on:9s off,5×10⁴ops.

Note:

The above electrical endurance tests are completed with flux-proof product(with vent hole). The venting hole should be opened in electrical endurance test.

Coil Data

Nominal Voltage VDC	Operate	Min. Release Voltage VDC		Coil Resistance (1±10%) Ω	Coil Power W	Holding Voltage	
5	3.75	0.25	5.5	16	1.6	50% to 100% Nomi. Volt. (at 23°C) 55% to 100%	
6	4.5	0.3	6.6	23			
9	6.75	0.45	9.9	51			
12	9	0.6	13.2	90			
18	13.5	0.9	19.8	203		Nomi. Volt.	
24	18	1.2	26.4	360		(at 85℃)	

Note:

- (1) Do not apply the maximum voltage on the product continuously for more than 10min to avoid coil heating
- (2) The coil holding voltage is the voltage applied to coil 200ms after the rated voltage
- (3) The contact gap 2.3mm product $coil\ resistance\ \pm 15\%$

Insulation Data

Insulation resistance	10	1000MΩ (500VDC)			
Initial dielectric strength					
between open contacts	2500VAC,	50/60Hz 1min.			
between contact and coil	4500VAC,	50/60Hz 1min.			

Other Data

Material comp	oliance	EU RoHS/ELV,	China F	RoHS,	REACH

Temperature rise

< 70K(After the coil is energized with rated voltage for 200ms, set the holding voltage to 60% of rated voltage, load

AC10,000V 1.2/50µs

current carrying 55A, @85°C) 98m/s² Shock resistance Functional Destructive 980m/s² Vibration resistance 10Hz to 55Hz 1.0mm DA

1×10⁵ops Mechanical endurance -40°C to +85°C Ambient temperature 5% to 85%RH Humidity

Approx. 20g Weight Impulse withstand voltage

between contact and coil

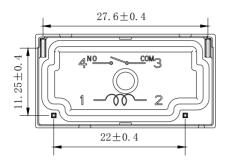
The above values are initial values

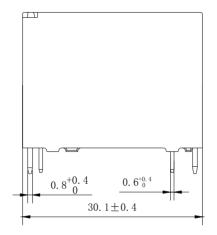
Safety certification load

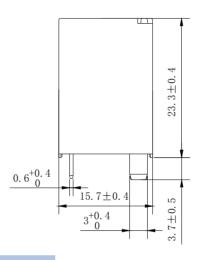
Certification	File No.	Approved ratings
UL	E179745	
TUV	R50540861	55A 125/250/277VAC
cQc	CQC22002336810	



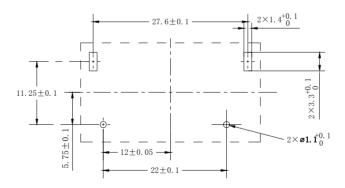
Dimensions



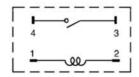




PCB layout (bottom view)

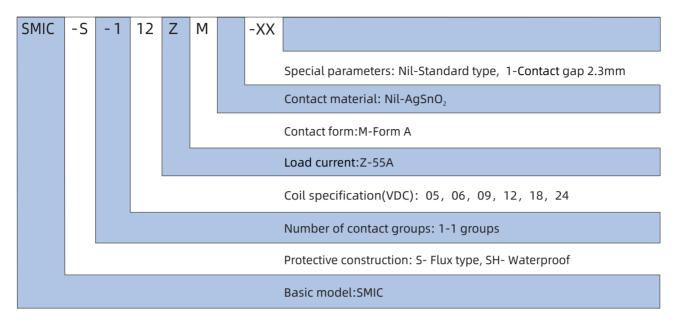


Wiring Diagrams





Product Code Structure

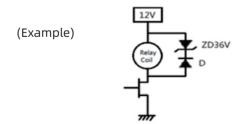


Note:

- $(1) \ \ Flux-proof type \ can \ not \ be \ used \ in \ polluted \ environment \ containing \ H_2S, \ SO_2, \ NO_2, \ dust \ and \ other \ pollutants.$
- (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.

Coil end parallel circuit (recommended)

Varistor (ZNR) could absorb the coil surge of relay that is recommended.



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.