

**Features**

- Miniature relay with high switching capability: 30A.
- Contact form: Form A, Form B or Form C.
- Special type of 4000VAC dielectric strength and 6000V surge voltage (1.2/50μS) between coil and contact available.
- Patent Number ZL 2008 20050972.1
- Satisfy IEC60335-1 /IEC60079-15 compliance product is available.

Safety certificate

UL、cUL (File No.): E190598

TUV (File No.) : R50143450

CQC (File No.):

CQC02001002109、CQC10002050461、CQC21002306488

VDE (File No.): 40036707

Contact Data

Type	SLA-DM	SLA-DB	SLA-D
Rated load (Resistive load)	30A 250VAC	15A 250VAC	20A/10A 250VAC
Max. switching current	30A	20A	20A
Max. switching voltage	250VAC	250VAC	250VAC
Max. switching power	7,500VA	5,000VA	5,000VA

Characteristics

Contact material	Silver alloy	
Contact resistance	100mΩ Max. (1A 6VDC)	
Operate time (at rated coil voltage)	15ms Max. (No diode)	
Release time	10ms Max. (No diode)	
Insulation resistance	Min. 1,000MΩ (at 500VDC)	
Dielectric strength	Between open contacts:	1,500VAC, 50/60Hz for 1min.
	Between coil and contact:	2,500VAC, 50/60Hz for 1min.(4KV available)
Vibration resistance	Destructive	10~55Hz, at double amplitude of 1.5mm.
	Function	110~55Hz, at double amplitude of 1.5mm.
抗冲击 Shock resistance	Destructive	100G Min.
	Function	10G Min.
Endurance	Mechanical endurance(at 10,800ops./h)	10,000,000 cycles(at room temperature)
	Electrical endurance(at 360 ops./h)	100,000 cycles(at room temperature)
Ambient temperature	-40°C ~ +85°C (No condensation) For ambient temperature is 105°C, please contact Sanyou	
Weight	Approx.24.0g	



Coil Data (at 20°C)

Nominal voltage (VDC)	Nominal operating current $\pm 10\%$ (mA)	Coil resistance $\pm 10\%$ (Ω)	Max. allowable voltage	Operate voltage (Max.)	Release voltage (Min.)	Nominal operating power
5	180.00	27	130% of nominal voltage	75% of nominal voltage	5% of nominal voltage	0.9W
6	150.00	40				
9	100.00	90				
12	75.00	160				
15	60.00	250				
18	50.00	360				
24	37.50	640				
48	18.75	2,560				
110	8.20	13,400				

The data shown above are initial values. Do not apply maximum allowable voltage on coil for more than 10 minutes to avoid overheating of the coil.

Safety Certificate Ratings (More details of approved ratings, please refer to the safety certificates)

Certificates	CQC	TUV	UL/CUL	VDE
File No	CQC02001002109 CQC10002050461 CQC21002306488	R50143450	E190598	40036707
Approved ratings	Form A: 30A 250VAC Form C: 20A/10A 250VAC	Form A: 30A 240VAC Marking: 80A 250VAC(300ms) Breaking: 20A 250VAC Form C: 20A/10A 240VAC	Form A: 30A 240VAC, Resistive/General Use 15A 240VAC 1-1/2HP 240VAC;3/4 HP 120VAC TV-8 120VAC Form C: 30A 240/120VAC Resistive 30A 240/120VAC,General Use 20A 240VAC, Resistive 10A 240VAC, Resistive 1-1/2HP 240VAC 3/4HP 125/120VAC TV-8 120VAC	30A 250VAC,NO 20A 250VAC,CO(test NO) 10A 250VAC,CO(test NC)

(1) 上述未注明温度的负载，均指环境温度为室温

All values unspecified are at room temperature

(2) 以上仅列出了该产品认证的部分负载，每个负载的详细测试条件不同，因此电寿命次数不一样。如需了解详细情况，请联系三友。

Only typical ratings are listed above and the endurance differ in each load. Other specific load information are available upon request.

(3) 对于塑封式、防水式产品试验时，应打开外壳的透气孔。

For sealed type testing, please open the ventilation hole in the case before test.



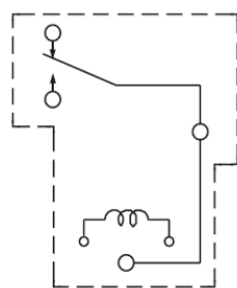
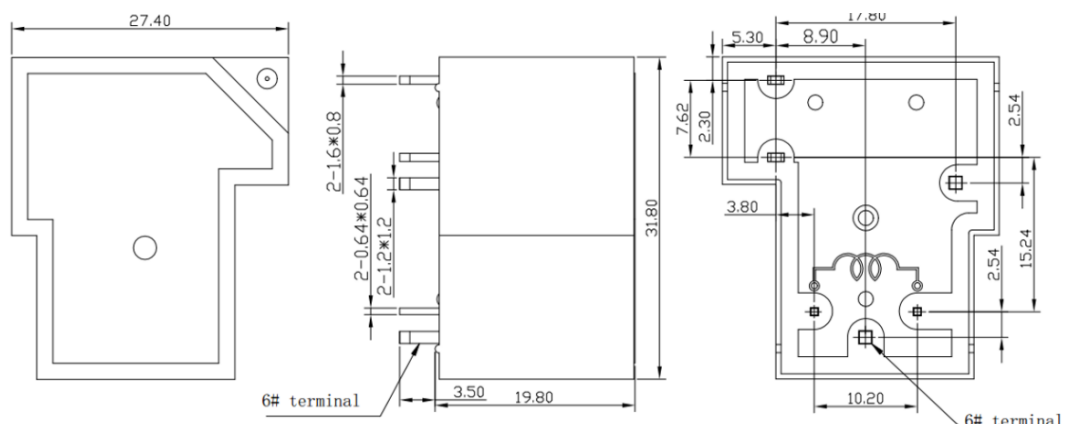
Ordering Information

Nomenclature

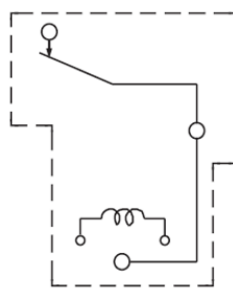
SLA	-S	-1	12	D	M	J	2	-F	-XX Special Parameter: Nil-Standard type, Letter or number-Special requirement
									Insulation System: Nil-Standard , B - Class B, F - Class F
									Contact Material: Nil-AgSnO ₂ , 2-AgNi+AgSnO ₂
									Terminal Type: Nil-Standard, J-Without 6# terminal
									Contact Form : Nil - Form C, B - Form B , M - Form A
									Coil Power: D-0.9W
									Rated Coil Voltage(VDC): 05, 06, 09, 12, 15, 18, 24, 48, 110
									Number of poles : 1-1 Pole
									Protective Construction: S--Flux proofed, SH-Sealed type washable
									Type: SLA



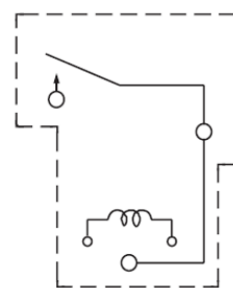
Outline dimension, wiring diagram, PCB layout (Unit: mm)



1c

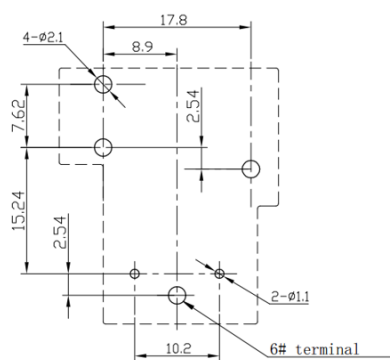


1b

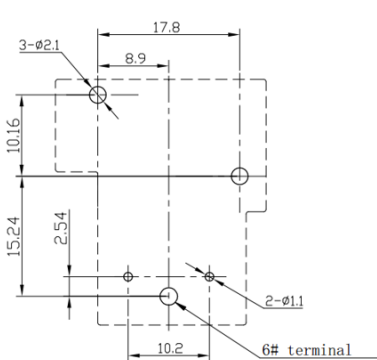


1a

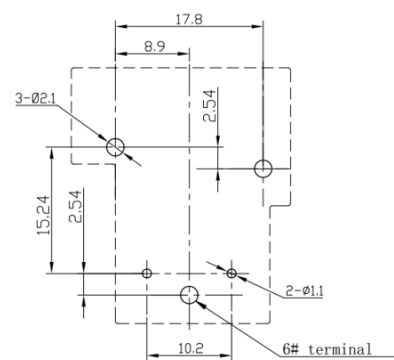
Wiring Diagram (bottom view)



1c



1b



1a

P. C. B. Layout (bottom view)

In case of no tolerance shown on outline dimension

If dimension < 1 mm, tolerance: $\pm 0.2\text{mm}$

If dimension 1~5mm, tolerance: $\pm 0.3\text{mm}$

If dimension > 5mm, tolerance: $\pm 0.4\text{mm}$

Note:

1. The dimension of pin is the size before tinning

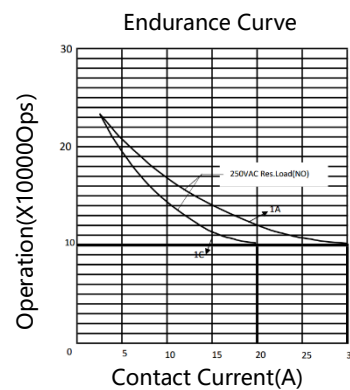
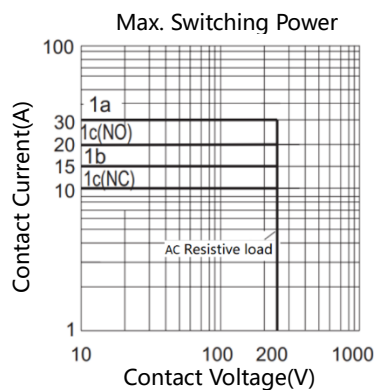
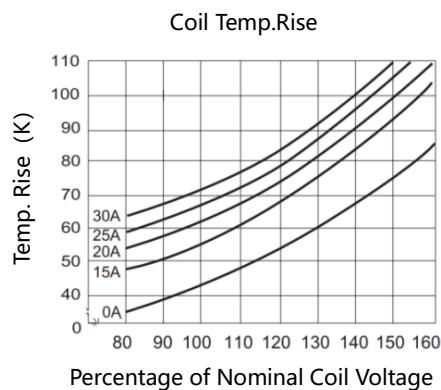
2. Tolerance of PCB layout: $\pm 0.1\text{ mm}$.



Typical Applications

- Car
- Heater and ventilation equipment
- Air conditioner
- Home appliance

Characteristic CurvesP

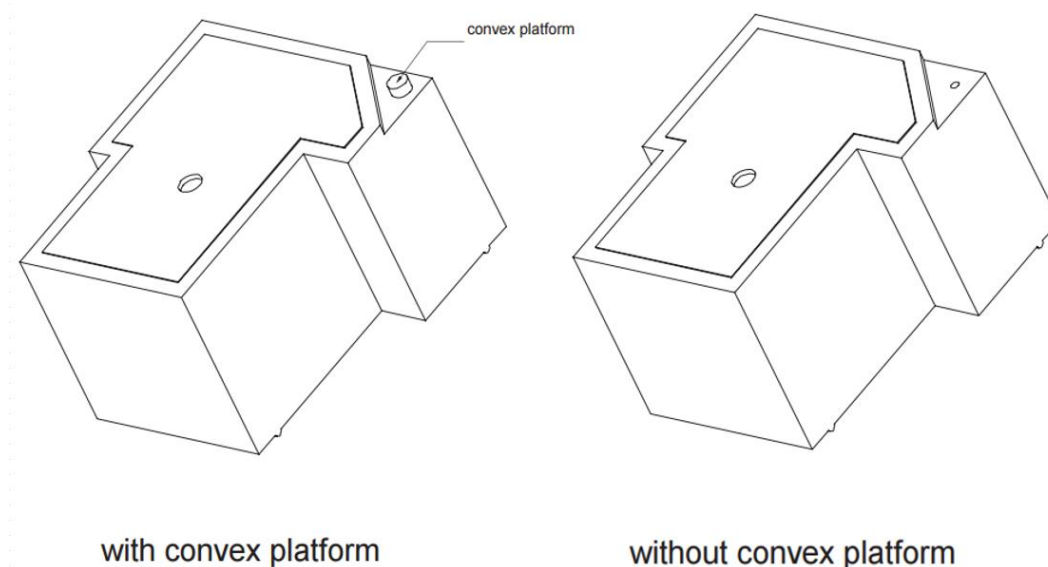


Note:

- (1) Test conditions: room temperature, flux-proof product, resistive load, 1s on, 9s off.
- (2) The above curves are for reference only, and the final result is subject to the experiment.

Note:

If you choose the sealed type, before using, please remove the convex platform at the top of the case to ensure the normal performance of the relay after the completion of a PCB operations. they are as shown in the following diagram:



Disclaimer:

This datasheet is for customer reference only. All the specification are subject to change without notice. We could not evaluate all the performance and all the parameters for every possible application. Thus users should in a right position to choose suitable product for their own application. For sealed relays after installation and cleaning, please open the vent hole on the case before use. If there is any query, please contact Sanyou for the technical service. However it is the user's responsibility to determine which product should be used.

