



Features:

- 16A high switching capability
- 2mm contact gap
- boundary dimension: 29mmx12.8mmx26.2mm

Safety Approval

UL/C-UL File No : E179745-1-30

TUV File No: R50540860

CQC File No: CQC22002336811

Contact Capacity

Model	SMIA
Nominal switching capacity (res. load)	16A 250VAC
Max. switching current	16A
Max. switching voltage	277VAC
Max. switching power	4432 VA
Min. switching load	6V 1A

Characteristic Data

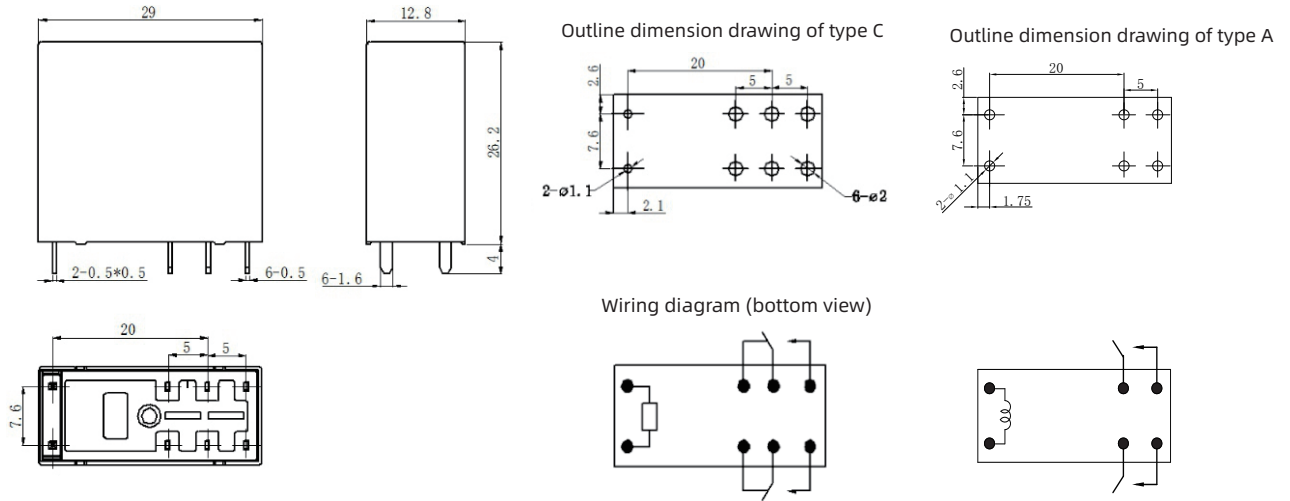
Contact arrangement	Silver alloy	
contact resistance	100mΩ Max.(at 1A 6VDC)	
Operate time (at nominal volt.)	15msec. Max. (No diode)	
Release time (at nominal volt.)	5msec. Max. (No diode)	
insulation resistance	1,000MΩ Min.(DC500V)	
Initial dielectric strength	Disconnect Between contact groups: AC2500V, 50/60Hz 1min.	
	Contact Between groups: AC3000V, 50/60Hz 1min.	
	Between coil and contact: AC5,000V, 50/60Hz 1min	
Vibration resistance	Functional	10 ~ 55Hz at double amplitude of 1.5 mm
	Destructive	10 ~ 55Hz at double amplitude of 1.5 mm
Shock resistance	Functional	100G Min.
	Destructive	10G Min.
Endurance	Mechanical (at 9000 ops./h)	300,000 cycles
	electrical endurance (at 360 ops./h)	30000 cycles (NC:10000cycles)
Ambient temperature	-40°C ~ +85°C (no condensation)	
ambient humidity	5% ~ 85%RH	
Unit weight	Approx 19g	

(1)The above values are initial values

(2)Only the typical load of the product certification is listed above,the electrical life and durability of each load are different due to different detailed test conditions.For further information,please contact our technical department.

(3)The above durability electrical life test conditions are open hole product state

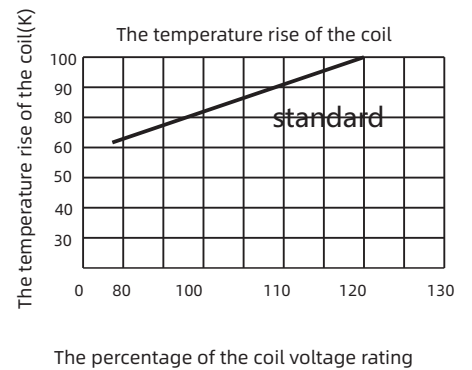
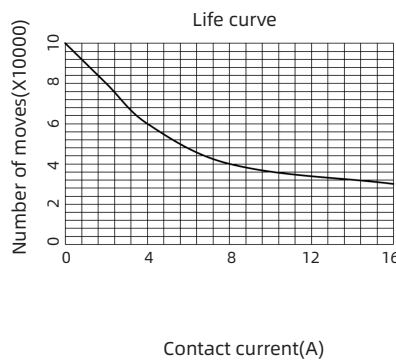
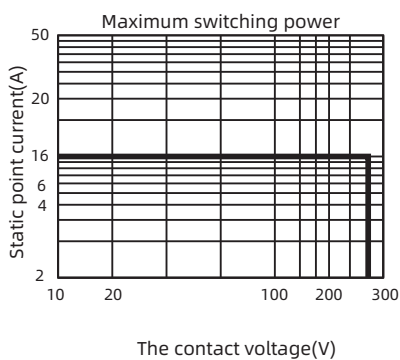
Outline dimension drawing, wiring diagram, mounting hole bitmap (unit:mm)



Unless otherwise specified:
 If dimension < 1mm, 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. Extended terminal dimension is dimension before soldering.
 2. Tolerance of P.C.B. layout: $\pm 0.1\text{mm}$.

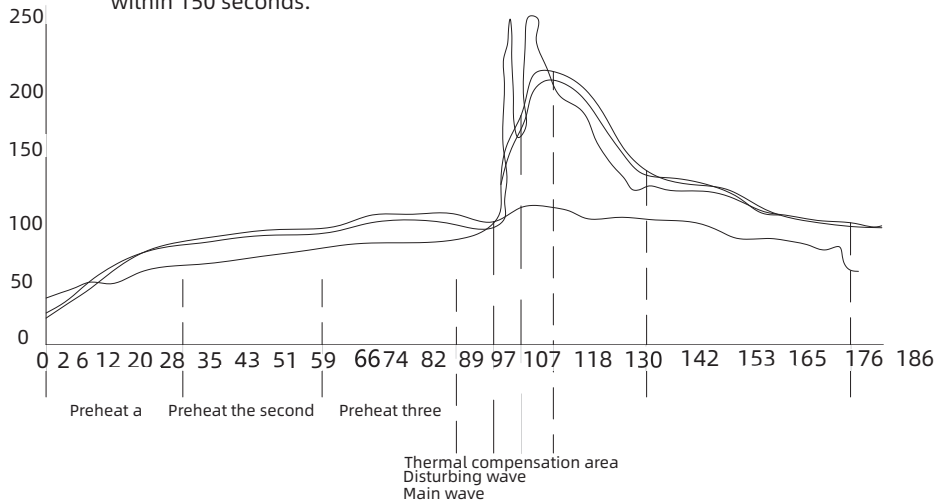
Performance curve



Matters needing attention:

(1) Wave soldering installation conditions

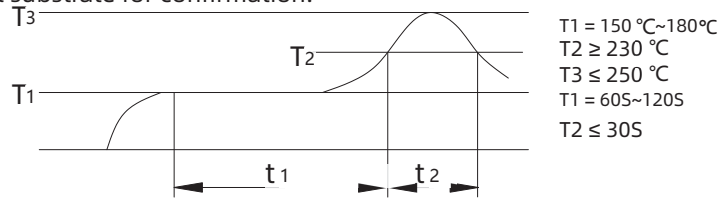
In the case of automatic welding, observe the following conditions. Pre-heating: within 150°C (welding surface terminal) within 150 seconds.



Wave soldering temperature profile

Recommended welding temperature and time: 240°C~260°C, 3s-5s. In addition, the impact on the relay may vary according to the type of substrate actually used.

Therefore, check the actual substrate for confirmation.



(2)Reflow welding installation conditions (PIN-in-paste process)

Under the condition of mixed parts on the same substrate, the temperature rise of the relay largely depends on the heating method of reflow welding machine, so please set the temperature condition.

Make the temperature of the relay terminal welding part and the surface of the relay shell less than the above conditions, and then confirm with the actual machine in advance.

Statement: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 the customer should choose the unsuitable ones according to the specific application conditions

Products, if you have any questions, please contact us for more technical support, but the customer is responsible for product selection.

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

(Example)

