



Miniature Power Relay

SRC



- •Small size (20.5x7.2x16.6 mm) for high density PCB mounting.
- •5A contact switching capability.
- •High breakdown voltage: 4000V (between coil and contact).
- •IEC60335-1 compliant product is available.

Safety certificate

UL, c-UL File No: E179745 VDE File No: 40045446

CQC File No: CQC13002089945、CQC23001380144、CQC22002367719、

CQC23001390433

Contact Data					
Туре	SRC				
Rated load (Resistive load)	5A 277VAC				
Max. switching current	5A				
Max. switching voltage	277VAC				
Max. switching power	1385VA				
Min. switching load	6V 1A				
Characteristics					
Contact material	Silver alloy				
Contact resistance	100mΩ Max. (at 1A 6VDC)				
Operate time (at rated coil voltage)	20ms Max. (No diode)				
Release time	10ms Max. (No diode)				
Insulation resistance	1,000MΩ Min. (DC500V)				
Dialogtuia atronath	Between open contacts: 750VAC , 50/60Hz for 1min.				
Dielectric strength	Between coil and contact: 4,000VAC, 50/60Hz for 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	10G Min.			
	Destructive	100G Min.			
Endurance	Mechanical endurance (at 10,800ops./h)	10,000,000(at room temperature)			
Lindianice	Electrical endurance (at 360ops./h)	100,000 (at room temperature)			
Ambient temperature	-40°C ~ +105°C (No condensation)				
Weight	Approx. 3.9g				

Coil Data (at 20°C)							
Nominal voltage (VDC)	Nominal operating current ± 10%(mA)	Coil resistance $\pm 10\%(\Omega)$	Max. allowable voltage	Operate voltage (Max.)	Release voltage (Min.)	Nominal operating power	
5	40.00	125	130% of nominal voltage	75% of nominal voltage	5% of nominal voltage	0.2W	
6	33.33	180					
9	22.22	405					
12	16.67	720					
18	11.11	1,620					
24	8.33	2,880					
5	72.00	69	130% of nominal voltage	75% of nominal voltage	5 % of nominal voltage	0.36W	
6	60.00	100					
9	40.00	225					
12	30.00	400					
18	20.00	900					
24	15.00	1600					

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.

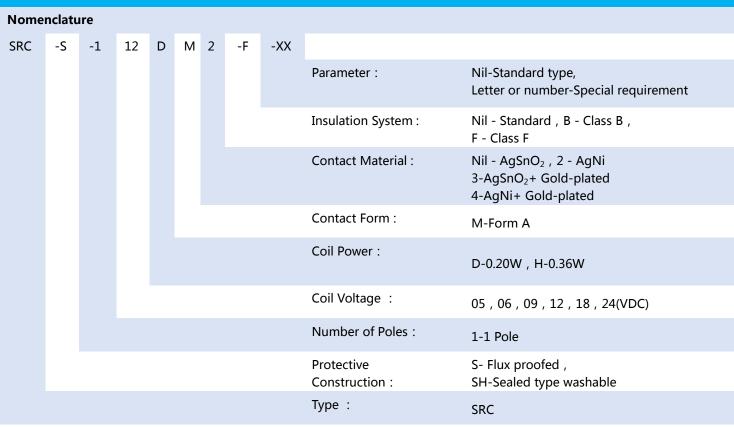
Safety Certificate Ratings (Note: More details of approved ratings, please refer to the safety certificates)							
Certificates	cQc	VDE	UL/CUL				
File No.	CQC13002089945 CQC23001380144 CQC22002367719 CQC23001390433	40045446	E179745				
Approved Ratings	5A 277VAC	5A 277VAC	5A 277VAC , Resistive 5A 277VAC , General Use				

⁽¹⁾ All values unspecified are at room temperature.

⁽²⁾ Only typical ratings are listed above and the endurance differ in each load. Other specific load information are available upon request.

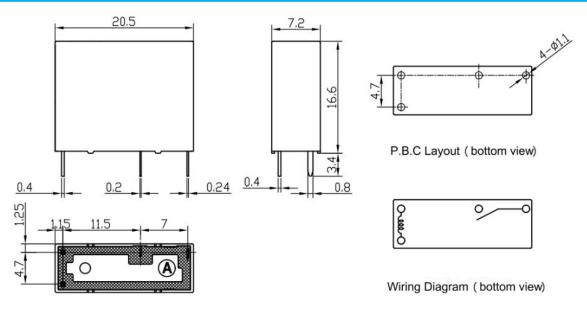
⁽³⁾ For sealed type testing, please open the ventilation hole of case before test.

Ordering Information



- (1) Flux-proof relays can not be used in the environment with pollutants like H2S, SO2,NO2, dust, etc.
- (2) Water cleaning or surface process is not suggested after the flux-proof relays are assembled on PCB.
- (3) Customized special suffix is available after being evaluated by Sanyou.

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



In case of no tolerance shown on outline dimension

If dimension < 1 mm, tolerance: ±0.2mm If dimension 1~5mm, tolerance: ±0.3mm If dimension > 5mm, tolerance: ±0.4mm

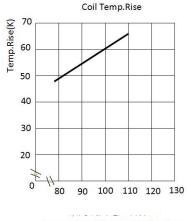
1. The dimension of pin is the size before tinning

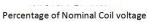
2.Tolerance of PCB layout: ±0.1 mm.

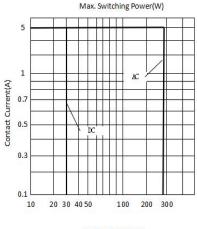
Typical Applications

- •Telecommunication equipment
- Safety equipment
- Office equipment
- Home appliances such as air conditioner, microwave oven

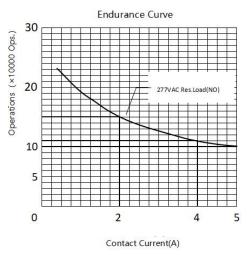
Characteristic Curves











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.

Disclaimer: The specification is for reference only. Specifications are subject to change without prior notice.

We could not evaluate all the performance and all the parameters for every possible applications. Thus the users should in a right position to choose suitable product for their own application. For sealed relays, after installation and cleaning, please open the ventilation hole in the case before use. If there is any query, please contact Sanyou for technical services. However it is the user's responsibility to determine which product should be used.