

Miniature Power Relay

SZ



Features

- Small in size and suitable for intensive installation.Load of up to 16A.
- Pressure resistance is up to 5,000V.
- IEC60335-1 compliant product is available.
- IEC60079-15 compliant product is available.

Safety certificate

UL , cUL File No : E190598 VDE File No : 40036033 TUV File No : R50226154 CQC File No : CQC07001018779

Contact Data					
Туре	SZ	SZ			
Rated load (Resistive load)	16A 250VAC 17A 277VAC				
Max. switching current	17A				
Max. switching voltage	277VAC				
Max. switching power	4709VA				
Min. switching load	6V 1A				
Characteristic					
Contact material	Silver alloy	Silver alloy			
Contact resistance	100mΩ Max.(at 1A 6VDC)	100mΩ Max.(at 1A 6VDC)			
Operate time (at rated coil voltage.)	15ms. Max. (No diode)	15ms. Max. (No diode)			
Release time	5ms. Max. (No diode)				
Insulation resistance	Min. 1,000MΩ (at 500VDC)				
Dielectric strength	Between open contacts: 1,000VAC, 50/60Hz for 1min.				
	Between coil and contact: 5,000VAC, 50	Between coil and contact: 5,000VAC , 50/60Hz for 1min.			
Miles de la constitución	Functional	10∽55Hz at double amplitude of 1.5 mm			
Vibration resistance	Destructive	10∽55Hz at double amplitude of 1.5 mm			
Shock resistance	Functional	10G Min.			
Shock resistance	Destructive	100G Min.			
Endurance	Mechanical endurance(at 10,800ops./h)	10,000,000(at room temperature)			
	Electrical endurance(at 360ops./h)	100,000(at room temperature)			
Ambient temperature	-40°C ~ +85°C (no condensation) For ambient temperature is 105°C, please contact Sanyou				
Weight	Approx. 14g				

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		
3	240.00	12.5	130% of nominal voltage	75% of nominal voltage	5% of nominal voltage	Approx. 0.72W		
5	144.00	35						
6	120.00	50						
9	80.00	113						
12	60.00	200						
18	40.00	450						
24	30.00	800						
48	15.00	3,200						
3	180.00	17						
5	108.00	46						
6	90.00	67						
9	60.00	150				Approx. 0.54W		
12	45.00	270						
18	30.00	600						
24	22.50	1,067						
48	11.25	4,267						

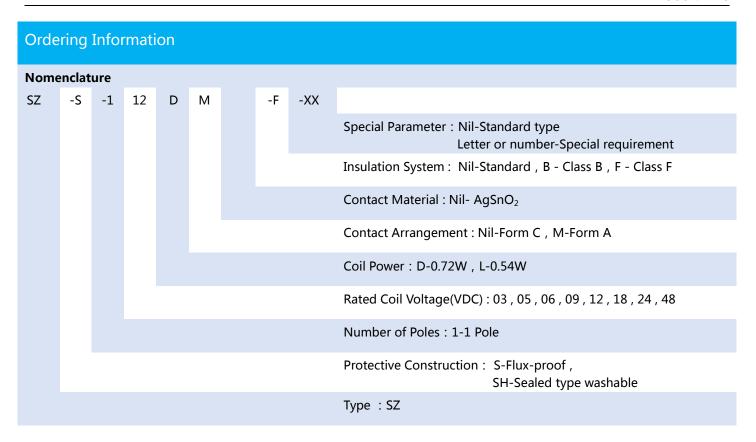
The data shown above are initial values. Do not apply maximum allowable voltage on coil for more than 10 minutes to avoid overheating of the coil.

Safety Certificate Ratings (Note: More details of approved ratings, please refer to the safety certificates)						
Certificates	cQc	TUV	VDE	UL/CUL		
File No.	CQC07001018779	R50226154	40036033	E190598		
Approved Ratings	16A 250VAC 17A 277VAC	From A: 16A 250VAC 16A 30VDC From C: 16A/10A 250VAC 16A/10A 30VDC	17A 277VAC	16A 240VAC, Resistive 16A 240VAC, General Use 5A 120VAC/24VDC, Resistive&General Use 17A 277VAC/30VDC, Resistive&General Use TV-8 120VAC		

⁽¹⁾All values unspecified are at room temperature

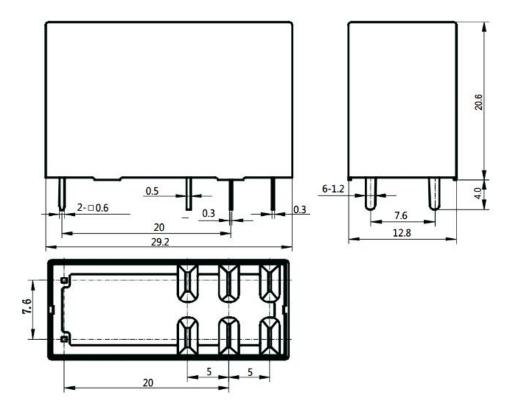
⁽²⁾Only typical ratings are listed above and the endurance differ in each load. Other specific load information are available upon request.

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



- (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)



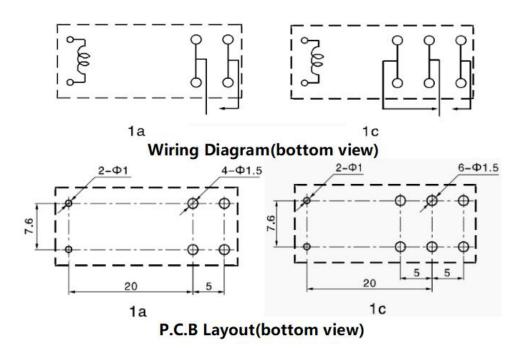
In case of no tolerance shown on outline dimension

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

Note:

1. The dimension of pin is the size before tinning $% \left(1\right) =\left(1\right) \left(1\right) \left($

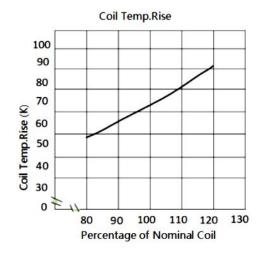
2.Tolerance of PCB layout: ±0.1 mm.

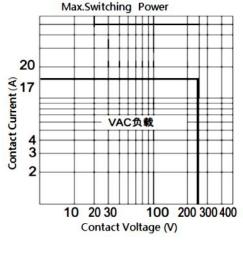


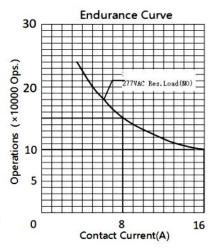
Typical Applications

- •Safety equipment •Office equipment wiring
- Home appliances : air conditioner, microwave oven, etc.

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 p

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.