



Miniature Power Relay

SJE



- Small size (20.6x10.2x15.7mm) with 10A switching capability for high density PCB mounting.
- ●IP/OP 4KV,Withstand surge voltage of 8KV.
- Apply to air conditioner, refrigerator, microwave oven, stove etc.
- ●IEC60335-1 compliant product is available.
- ●IEC60079-15 compliant product is available.

Safety certificate

UL CUL File No.: E190598 CQC File No.: CQC04001009429

VDE File No.: 40035912

_	O SANYOU 2021YF
_	. FU. 📤 🕯
_	10A 277VAC
	SJE-S-112DH

Contact Data

Туре	SJE				
Rated load (Resistive load)	10A 277VAC				
Max. switching current	10A				
Max. switching voltage	277VAC				
Max. switching power	2,770VA				
Min. switching load	6V 1A				
Characteristics					
Contact material	Silver alloy				
Contact resistance	100mΩ Max. (at 1A 6VDC)				
Operate time (at rated coil voltage)	10ms Max. (No diode)				
Release time	4ms Max. (No diode)				
Insulation resistance	Min. 1,000MΩ (at 500VDC)				
Dialo atvia atvanath	Between open contacts: 1000VAC, 50/60Hz for 1min.				
Dielectric strength	Between coil and contact: 4000VAC, 50/60Hz for 1min.				
Vibration resistance	Destructive	$10 \sim 55$ Hz, at double amplitude of 1.5mm			
VIDIALION resistance	Functional	10 ~ 55Hz, at double amplitude of 1.5mm			
Shock resistance	Destructive	100G Min.			
SHOCK resistance	Functional	10G Min.			
Fradriga	Mechanical endurance (10,800ops./h)	10,000,000(at room temperature)			
Endurance	Electrical endurance (360ops./h)	100,000(at room temperature)			
Ambient temperature	-40°C ~ +105°C (No condensation)				
Weight	Approx. 6.5g				

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	150.00	20				
5	90.00	55				
6	75.00	80		75% of nominal voltage	5% of nominal voltage	Approx. 0.45W
9	50.00	180	130% of nominal			
12	37.50	320	voltage			
18	25.00	720				
24	18.75	1,280				
48	9.38	5,120				
3	133.33	22.5		75% of nominal voltage	5% of nominal voltage	Approx. 0.4W
5	80.00	62.5				
6	66.67	90				
9	44.44	202.5	130% of nominal			
12	33.33	360	Voltage			
18	22.22	810				
24	16.67	1,440				
48	8.33	5,760				
3	66.67	45				
5	40.00	125			5% of nominal voltage	Approx. 0.2W
6	33.33	180		75% of nominal voltage		
9	22.22	405	130% of nominal	75% of nominal voltage (80% of nominal voltage with Form C)		
12	16.67	720	Voltage			
18	11.11	1,620				
24	8.33	2,880				
48	4.17	11,520				

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.

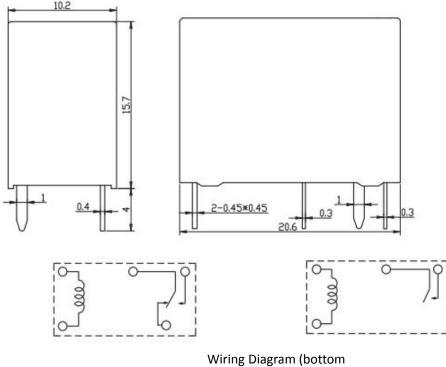
Safety Certificate Ratings (Note: More details of approved ratings, please refer to the safety certificates)					
Certificates	cQc	VDE	UL/CUL		
File No.	CQC04001009429	40035912	E190598		
Approved Ratings	10A 277VAC	10A 277VAC	10A 277VAC , Resistive 10A 277VAC , General Use		

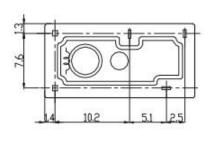
- (1) All values unspecified are at room temperature.
- (2) Only typical ratings are listed above and the endurance differ in each load. Other specific load information are available upon request.
- (3) For sealed type testing, please open the ventilation hole in the case before test.

Ordering Information									
Nomen	clature	•							
SJE	SJE -S -1 12 D M H 3	3	3 -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, 3 - AgSnO ₂ For contact 3 Compounds(Form C), 4 - AgNi For contact 3 Compounds(Form C)		
									Load Capacity: Nil - Standard, H-10A
									Contact Form: Nil - Form C, B - Form B, M - Form A
									Coil Power: D-0.45W, E-0.4W, L-0.2W
									Rated Coil Voltage(VDC): 03, 05, 06, 09, 12, 18, 24, 48
									Number of Poles : 1-1Pole
									Protective Construction : S- Flux-proof SH- Sealed type washable
									Type : SJE

- (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)





bottom view

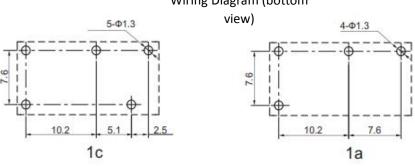
In case of no tolerance shown on outline dimension

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

2.Tolerance of PCB layout: ±0.1 mm.

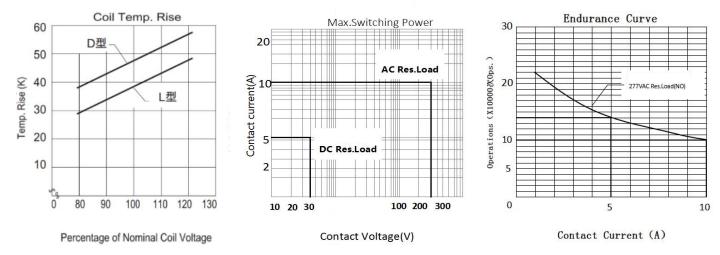


PCB Layout(bottom view)

Typical Applications

•Home appliances •Office equipment •Audio equipment

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

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 techn ical services. However it is the user's responsibility to determine which product should be used.