

Features:

- Low coil power consumption.
- Micro-miniature relay, standard PCB terminals.
- IEC60335-1 compliant product is available.
- IEC60079-15 compliant product is available.

Safety certificate:

- Home appliances: air conditioner, heater, etc.
 Vending machine.

- Office equipment: computer, fax machine, etc.
 Electric controlled window, car antenna, door lock, etc.

Approvals

UL、c-UL (File No.): E190598 TUV (File No.): R50142420

CQC (File No.) : CQC02001002114, CQC09002030583, CQC11002064518 , CQC22002367720

Contact Data	
Contact arrangement	1form A(NO)
Rated voltage	277VAC
Max.switching voltage	277VAC
Rated current	16A
Min. recommended contact load	1A, 6VDC
Breaking capacity max.	4432VA
Contact material	,AgSn0 ₂ , AgNi&AgSn0 ₂ ,
Frequency of operation	360 ops./h
Operate/release time max.	10ms/5ms
Electrical endurance	See electrical endurance graph

Contact ratings

Othicae	<u>t rutirig</u>	,				
Туре	Contact	Load	Cycles			
IEC 61810						
SJ	A(NO)	16A,277VAC,cos φ=1,85°C	5X10⁴			
UL 60947-4	-1					
SJ	A(NO)	16A,277VAC,cos φ=1,85°C	1X10 ⁵			
SJ	A(NO)	TV-10, 120 VAC, 40°C	2.5X10 ⁴			
GB/T 21711	1.1-2023					
SJ	A(NO)	16A,277VAC,85°C	2X10 ⁴			
EN 60730-1						
SJ	A(NO)	16A,277VAC,85°C	5X10⁴			
Mechanical	endurance		≥1x10 ⁷			

Coil	Data

Coil voltage range:	5 to 24VDC
Operative range, IEC 61810	2
Coil insulation system according UL	Class F









Coil Data (continued)

Coil versio	ions, DC coil						
Rated	Operate	Release	Coil	Rated coil			
voltage	voltage	voltage	resistance	powers			
VDC	VDC	VDC	Ω (1±10%)	mW			
5	≤3.75	≥0.5	62.5	400			
6	≤4.5	≥0.6	90	400			
9	≤6.75	≥0.9	202.5	400			
12	≤9	≥1.2	360	400			
18	≤13.5	≥1.8	810	400			
24	≤18	≥2.4	1440	400			

All figures are given for coil without pre-energization, at ambient temperature 20°C

Coil versions, DC coil							
Rated	Operate	Release	Coil	Rated coil			
voltage	voltage	voltage	resistance	powers			
VDC	VDC	VDC	Ω (1±10%)	mW			
5	≤3.75	≥0.5	125	200			
6	≤4.5	≥0.6	180	200			
9	≤6.75	≥0.9	405	200			
12	≤9	≥1.2	720	200			
18	≤13.5	≥1.8	1620	200			
24	≤18	≥2.4	2880	200			

All figures are given for coil without pre-energization, at ambient temperature 20°C

Insulation Data

Initial dielectric strength	
between open contacts	1000VAC
between contact and coil	4000VAC
Clearance/creepage	
between contact and coil	≥3.0mm
between adjacent contacts	≥5.0mm
Material group of insulation parts	Illa
Tracking index of relay base	PTI 175V/PTI 250V

Other Data

Material compliance: EU RoHS/ELV, China RoHS, REACH

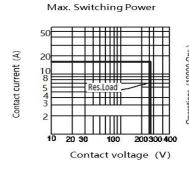
-40°C to +85°C Ambient temperature

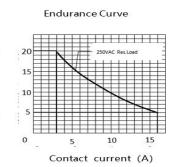
Category of environmental protection

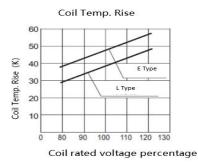
IEC 61810 RTII - flux proof

RTIII - Sealed type washable Weight Approx. 5.7q Resistance to soldering heat THT (IEC 60068-2-20) 260°C/5s

tube, tray





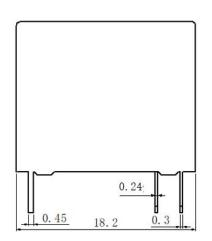


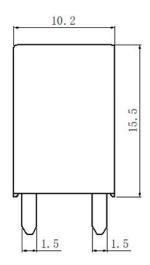
(1) Test conditions: room temperature, flux-proof product, resistive load, 1s on, 9s off.

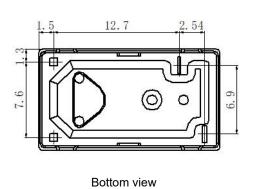
(2)The above curves are for reference only, and the final result is subject to the experiment.



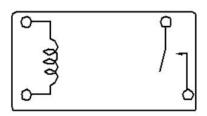
Dimension



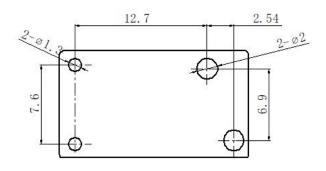




Connection diagrams (bottom view)



Connection diagrams (bottom view)



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

Note:

1. The dimension of pin is the size before tinning

2.Tolerance of PCB layout: ±0.1 mm.



Proc	luct co	de stru	ıcture						
SJ	-S	-1	12	Е	M	S	3	-F	-xx
									Special Parameter: Nil-Standard, Letter or number-Special requirement
									Insulation System: Nil-Standard type, B- B-Class B, F-Class F
									Contact Material: Nil-AgSnO ₂ , 3-AgNi&AgSnO ₂
									Contact capacity: S-16A
									Contact Arrangement: M-Form A
									Coil Power: L-0.2W, E-0.4W
									Rated Coil voltage(VDC): 05,06,09,12,18,24
									Number of poles : 1-1Pole
									Protective Construction: S-Flux proofed, SH-Sealed type washable
									Type: SJ

- (1) .Flux-proofed relays can not be used in the environment with pollutants like H_2S , SO_2 , NO_2 , dust, etc.
- (2) .Water cleaning or surface process is not suggested after the flux-proofed relays are assembled on PCB.
- (3) . Special requirements of customers (XX) shall be evaluated by our company and marked by characteristic symbols.

Examples of ordering codes

SJ-S-112EMS relay SJ, Flux-proof, rated DC voltage 12V, coil power 0.4W,1NO, and contact material AgSnO2.

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.