Features:

- Low coil power consumption.Micro-miniature relay, standard PCB terminals.
- Compliant with IEC60335-1&CTI250V
- •IEC60079-15 compliant product is available.
- •Suitable for high inrush current version(TV-8)

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	
Frequency of operation	360 ops./h	
Operate/release time max.	10ms/5ms	
Electrical endurance	See electrical endurance graph	

ntact ratings

Contac	ct ratings	5		
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	5X10 ⁴	
SJ	A(NO)	TV-10, 120 VAC, 40°C	2.5X10⁴	
GB/T 2171	11.1-2023			
SJ	A(NO)	16A,277VAC,85°C	2X10 ⁴	
EN 60730-	-1			
SJ	A(NO)	16A,277VAC,85°C	5X10⁴	
Mechanical endurance		≥1x10 ⁷		

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









Coil Data (continued)

Coil versio	ns, DC coil				
Rated	Operate	Release	Coil	Rated coil	
voltage	voltage	voltage	resistance	powers	
VDC	VDC	VDC	Ω (1±10%)	mW	
5	≤3.75	≥0.25	62.5	400	
6	≤4.5	≥0.3	90	400	
9	≤6.75	≥0.45	202.5	400	
12	≤9	≥0.6	360	400	
18	≤13.5	≥0.9	810	400	
24	≤18	≥1.2	1440	400	

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

Coil versions, DC coil Release Coil Rated coil Rated Operate voltage voltage voltage resistance powers VDC VDC VDC Ω (1±10% mW 5 ≤3.75 ≥0.25 125 200 6 ≤4.5 ≥0.3 180 200 405 ≤6.75 ≥0.45 200 9 12 ≤9 ≥0.6 720 200 18 ≤13.5 ≥0.9 1620 200 24 ≤18 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 (Clearance)	≥8.0mm(actual)
between contact and coil (Creepage)	≥8.0mm(actual)
Material group of insulation parts	IIIa
Tracking index of relay	PTI 175V/PTI 250V

Other Data

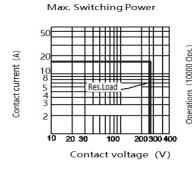
Packaging/unit

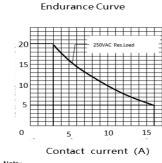
Material compliance: EU RoHS/ELV, China RoHS, REACH

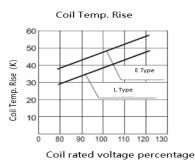
Ambient temperature -40°C to +85°C Category of environmental protection IEC 61810 RTII - flux proof

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

tube, tray

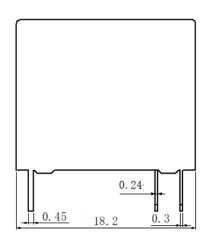


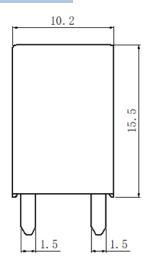


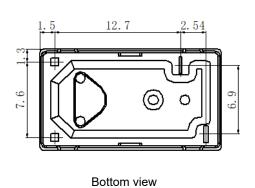


(1) Test conditions: room temperature, flux-proof product, resistive load, 1s on, 9s off.
(2)The above curves are for reference only, and the final result is subject to the experiment.

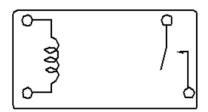
Dimension



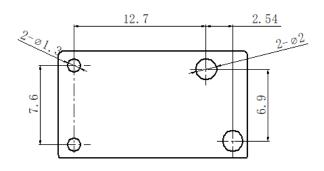




Connection diagrams (bottom view)



Connection diagrams (bottom view)

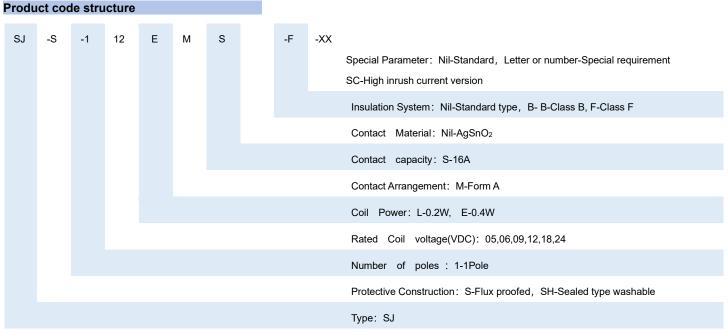


In case of no tolerance shown on outline dimension

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.



- (1) Flux-proofed 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-proofed relays are assembled on PCB.
- (3) Special requirements of customers (XX) shall be evaluated by our company and marked by characteristic symbols.
- (4) (Ex) suffix stands for products compliant with IEC60079-15.
- (5) (SC) Suitable for high inrush current version (TV-8)

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.