

## Features:

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

## Typical applications:

- 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.): E179745

CQC (File No.): CQC13002089945, CQC22002367719

VDE (File No.): 40045446

Contact Data	
Contact arrangement	1form A( NO)
Rated voltage	277VAC
Max.switching voltage	277VAC
Rated current	5A
Min. recommended contact load	1A, 6VDC
Breaking capacity max.	1385VA
Contact material	AgNi, AgSn0₂
Frequency of operation	360 ops./h
Operate/release time max.	20ms/10ms
Electrical endurance	See electrical endurance graph

Contact ratings

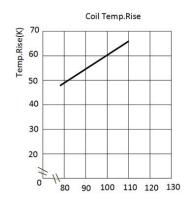
Contact is	auriyə			
Туре	Contact	Load	Cycles	
IEC 61810, EN	60730-1			
SRC	Α	5A,277VAC,cos φ=1,105°C	1X10⁵	
UL 60947-4-1				
SRC	Α	5A, 277VAC, 85°C	1X10⁵	
GB/T 21711.1-2	2023			
SRC	Α	5A,277VAC,105°C	2X10 <sup>4</sup>	
Mechanical end	durance		≥1x10 <sup>7</sup>	

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

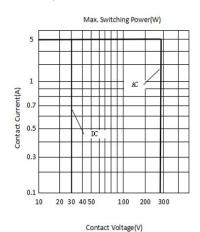
Coil versions, DC coil

Rated	Operate	Release	Coil	Rated coil	
voltage	voltage	voltage	resistance	powers	
VDC	VDC	VDC	Ω (1±10%)	mW	
5	≤3.75	≥0.25	125	200	
6	≤4.5	≥0.3	180	200	
9	≤6.75	≥0.45	405	200	
12	≤9	≥0.6	720	200	
18	≤13.5	≥0.9	1620	200	
24	≤18	≥1.2	2880	200	

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















#### Coil Data(continued)

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Coil versio	ns, DC coil				
Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ω (1±10%)	Rated coil powers mW	
5	≤3.75	≥0.25	69	360	
6	≤4.5	≥0.3	100	360	
9	≤6.75	≥0.45	225	360	
12	≤9	≥0.6	400	360	
18	≤13.5	≥0.9	900	360	
24	≤18	≥1.2	1600	360	

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

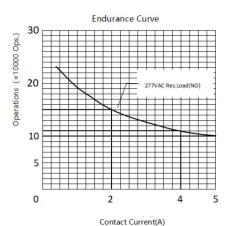
## Inculation Data

ilisulation Data	
Initial dielectric strength	
between open contacts	750VAC
between contact and coil	4000VAC
Clearance/creepage	
between contact and coil (Clearance)	≥5.5mm(actual)
between contact and coil (Creepage)	≥6.4mm(actual)
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

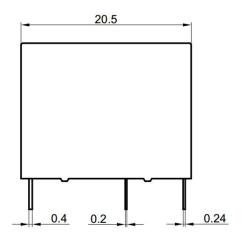
Ambient temperature -40°C to +85°C,-40°C to +105°C Category of environmental protection IEC 61810 RTII - flux proof RTIII - Sealed type washable Weight Approx. 3.9g Resistance to soldering heat THT (IEC 60068-2-20) 260°C/5s Packaging/unit tube, tray

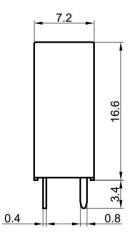


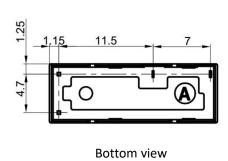
- (1) Test conditions: room temperature, flux-proof product, sistive load, 1s on, 9s off.
- resistive load, 1s on, 9s off.
  (2)The above curves are for reference only, and the final result is subject to the experiment.



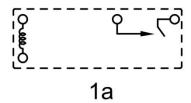
# **Dimensions**



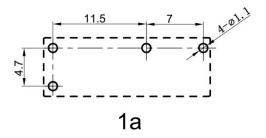




# **Wiring Diagrams**



# PCB Layouts (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

# Notes:

1. The dimension of pin is the size before tinning

2.Tolerance of PCB layout: ±0.1 mm.



Product Code Structure

Produ	Ct Code	e Stru	cture					
SRC	-S	-1	12	D	М	2	-F	-XX

- (1) Flux-proof relays can not be used in the environment with pollutants like H<sub>2</sub>S, SO<sub>2</sub>,NO<sub>2</sub>, 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.

## **Examples of Ordering Codes**

SRC-S-112DM relay SRC, Flux-proof, rated DC voltage 12V, coil power 0.20W, 1NO, and contact material AgSnO<sub>2</sub> SRC-S-112HM2 relay SRC, Flux-proof, rated DC voltage 12V, coil power 0.36W, 1NO, and contact material AgNi

#### 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.