

Features:

- Low coil power consumption.
- Micro-miniature relay, standard PCB terminals.
- IEC60335-1 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.): E190598
TUV (File No.): R50142424
CQC (File No.): CQC02001002126

Contact Data

Contact arrangement	1form C(CO)or1form A(NO)
Rated voltage	250VAC
Max.switching voltage	277VAC
Rated current	10A
Min.recommended contact load	1A,6VDC
Breaking capacity max	2770VA
Contact material	AgSnO ₂
Frequency of operation	360 ops./h
Operate/Release time max	8ms/5ms
Electrical endurance	See electrical endurance graph

Contact ratings

Type	Contact	Load	Cycles
IEC 61810			
SRDC	A/C(NO)	10A,250VAC,cos φ=1,105°C	1X10 ⁵
UL 60947-4-1			
SRDC	A/C(NO)	10A,250VAC,cos φ=1,105°C	1X10 ⁵
SRDC	A/C(NO)	1/3 hp,250 VAC,85°C	1X10 ⁵
SRDC	A/C(NO)	TV-5,250 VAC,85°C	2.5X10 ⁴
GB/T 21711.1-2023⁴			
SRDC	A/C(NO)	10A,250VAC,105°C	2X10 ⁴
Mechanical endurance			≥1x10 ⁷

Coil Data

Coil voltage range:	5 to 60VDC
Operative range, IEC 61810	2
Coil insulation system according UL	Class F

Coil Data(continued)

Coil versions, DC coil				
Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ω (1±10%)	Rated coil powers mW
5	≤3.75	≥0.5	70	360
6	≤4.5	≥0.6	100	360
9	≤6.75	≥0.9	225	360
12	≤9	≥1.2	400	360
15	≤11.25	≥1.5	625	360
18	≤13.5	≥1.8	900	360
24	≤18	≥2.4	1600	360
48	≤36	≥4.8	6400	360
60	≤45	≥6	10000	360

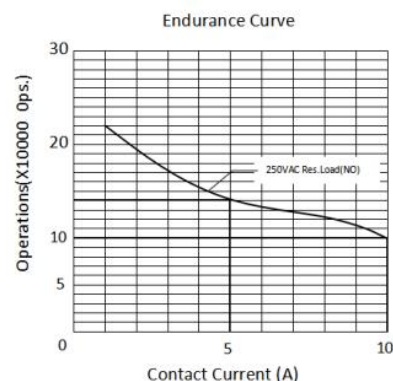
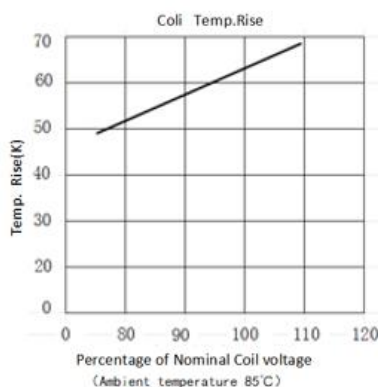
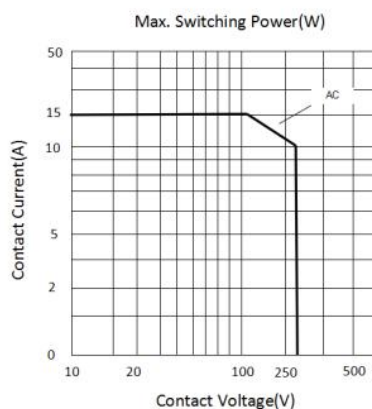
All figures are given for coil without pre-energization, at ambient temperature 20°C

Insulation Data

Initial dielectric strength	
between open contacts	750VAC
between contact and coil	1500VAC
Clearance/Creepage	
between contact and coil (Clearance)	≥1.5mm
between contact and coil (Creepage)	≥3.0mm
Material group of insulation parts	IIIa
Tracking index of relay base	PTI 175V

Other Data

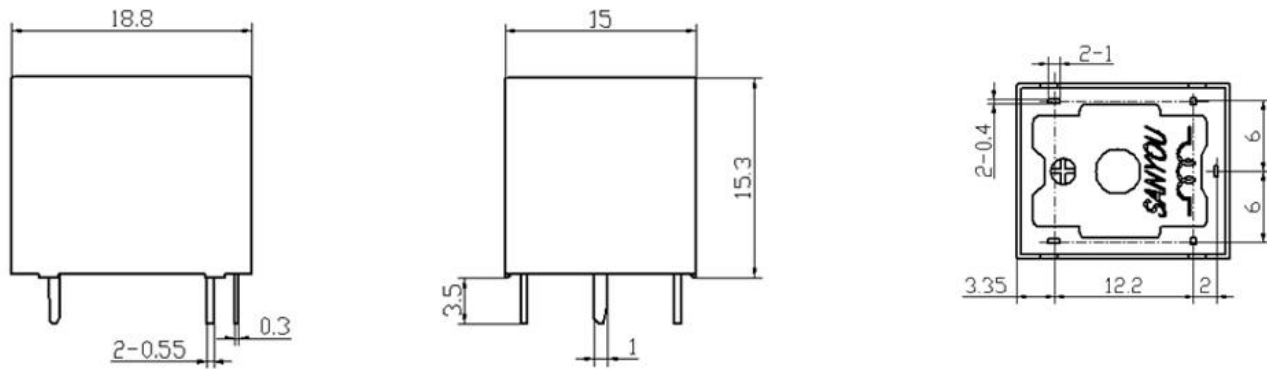
Material compliance:	EU RoHS/ELV, China RoHS, REACH
Ambient temperature	-40°C to +85°C,
Category of environmental protection	RTII - flux proof
IEC 61810	RTIII - Sealed type washable
Weight	Approx.7.0g
Resistance to soldering heat THT (IEC 60068-2-20)	260°C/5s
Packaging/unit	tube, tray



Note:

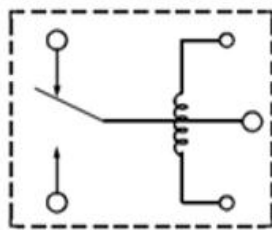
- (1)Test conditions: room temperature, flux-proof product, resistive load, 1s on, 9s off.
- (2)The above curves are for reference only, and the final result is subject to the experiment.

Dimensions

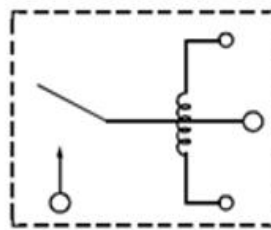


(bottom view)

Wiring Diagrams

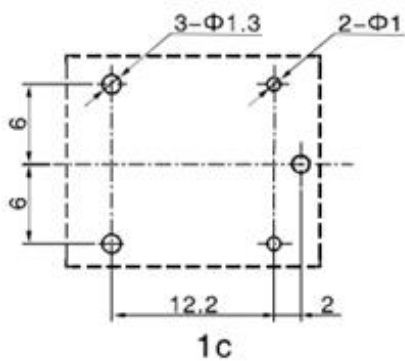


1c

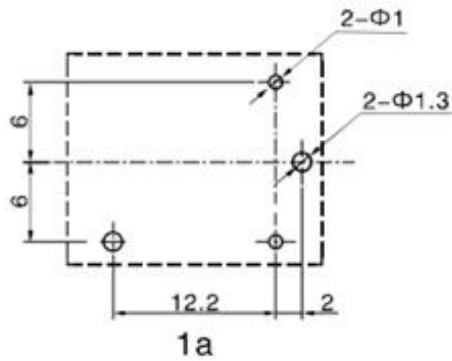


1a

PCB Layouts (bottom view)



1c



1a

In case of no tolerance shown on outline dimension
 If dimension < 1 mm, tolerance: $\pm 0.2\text{mm}$
 If dimension 1~5mm, tolerance: $\pm 0.3\text{mm}$
 If dimension > 5mm, tolerance: $\pm 0.4\text{mm}$

Notes:

- 1.The dimension of pin is the size before tinning
- 2.Tolerance of PCB layout: $\pm 0.1\text{ mm}$.

Product Code Structure

SRDC	-S	-1	12	D	M		-F	-XX
Special Parameter : Nil-Standard type Letter or number-Special requirement								
Insulation System : Nil-Standard F - Class F								
Contact Material : Nil-AgSnO ₂								
Contact Arrangement: Nil-Form C M-Form A								
Coil Power : D-0.36W								
Rated Coil Voltage(VDC): 05, 06, 09, 12, 15, 18, 24, 48, 60								
Number of Poles: 1-1Pole								
Protective Construction S - Flux-proof SH- Sealed type washable								
Type: SRDC								

- (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.

Examples of Ordering Codes

SRDC-S-112DM	relay SRDC , Flux-proof , rated DC voltage 12V ,coil power 0.36W,1NO,and contact material AgSnO ₂ .
SRDC-S-112D	relay SRDC, Flux-proof , rated DC voltage 12V ,coil power 0.36W,1CO,and contact material AgSnO ₂ .

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.