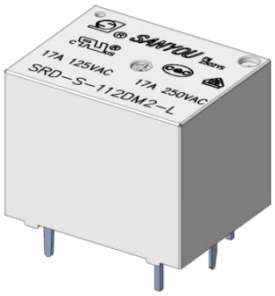
Features:

- High contact capability: 17A switching capability
- Low coil power consumption
- Micro-miniature relay, standard PCB terminals
- Compliance EU RoHS and the requirement of white home appliances
- Compliant with IEC60335-1&CTI 250V.
- 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.): E190598
CQC (File No.): CQC02001002126, CQC10002050459, CQC21002306489
VDE (File No.): 40034479

Contact Data

Contact arrangement	1form C(CO)or 1form A(NO)
Rated voltage	250VAC
Max.switching voltage	277VAC
Rated current	17A
Min. recommended contact load	1A, 6VDC
Breaking capacity max.	4709VA
Contact material	AgNi，$AgSnO_2$
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			
SRD(I) -L	A/C(NO)	17A,250VAC,cos ϕ=1,85℃	$2.5X10^4$
UL 60947-4-1			
SRD(I) -L	A/C(NO)	17A,250VAC,cos ϕ=1,105℃	$5X10^4$
SRD(I) -L	A/C(NO)	1/2 hp, 250/120 VAC, 85℃	$3X10^4$
SRD(I) -L	A/C(NO)	TV-8, 250/120 VAC, 85℃	$2.5X10^4$
GB/T 21711.1-2023			
SRD(I) -L	A/C(NO)	17A,250VAC,105℃	$2X10^4$
EN 60730-1			
SRD(I) -L	A/C(NO)	17A,250VAC,85℃	$2.5X10^4$
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

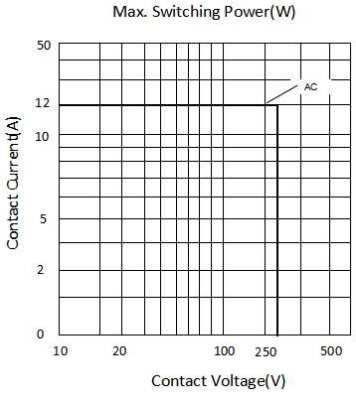
Insulation Data

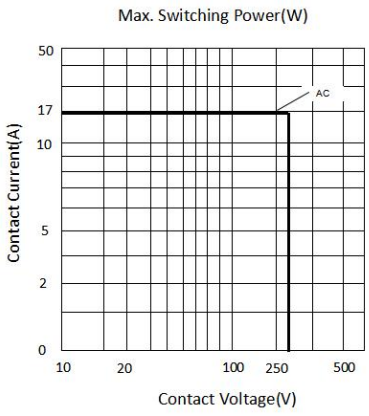
Initial dielectric strength	
between open contacts	750VAC
between contact and coil	SRD-L：1500VAC SRDI-L：2500VAC
Clearance/Creepage	
between contact and coil（Clearance）	≥1.5mm(actual)
between contact and coil（Creepage）	≥3.0mm(actual)
Material group of insulation parts	IIIa
Tracking index of relay base	PTI 175V/PTI 250V

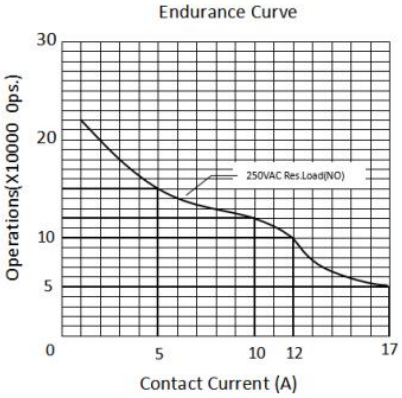
Other Data

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

Ambient temperature	-40℃to +105℃
Category of environmental protection	
IEC 61810	RTII - flux proof RTIII - Sealed type washable
Weight	Approx. 8.0g
Resistance to soldering heat THT (IEC 60068-2-20)	260°C/5s
Packaging/unit	tube, tray

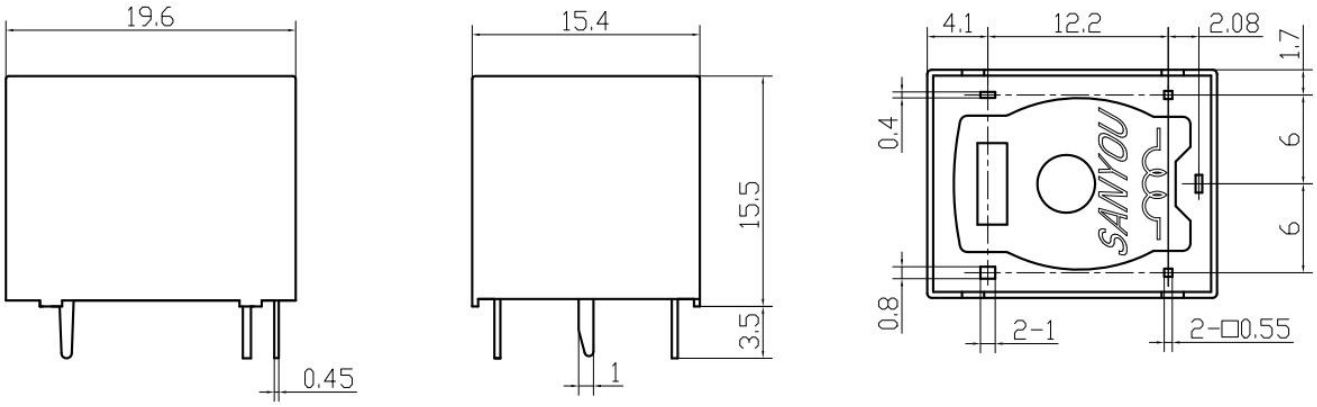






Note:
(1)Test conditions: room temperature, flux-proof product, resistive load, 1s on, 9s off.
(2)The above curves are for reference only, and the final result is subject to the experiment.

Dimensions

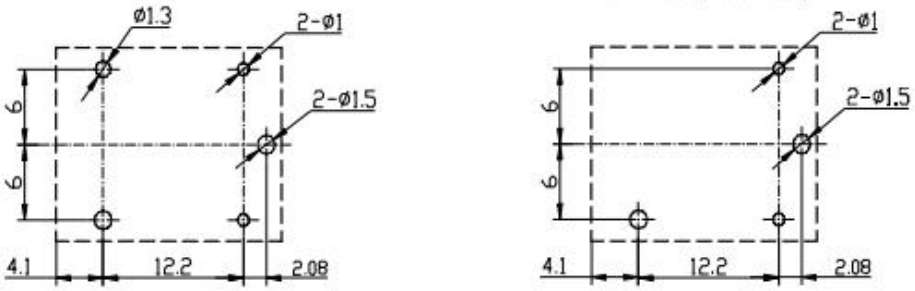


(bottom view)

Wiring Diagrams（bottom view）

1c 1a

PCB Layouts（bottom view）



1c 1a

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

SRD	-S	-1	12	D	M	2	-F	-L	XX

Special Parameter:
Nil-Standard type
Letter or number-Special requirement

L- Low temperature rised type

Insulation System :
Nil - Standard
B - Class B
F - Class F

Contact Material :
2 - $AgSnO_2$
4 -3 Compounds $AgSnO_2$ (Form C)
6 - AgNi
7 - AgNi & $AgSnO_2$
8 - 3 Compounds AgNi (Form C)

Contact Form :
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 : SRD/SRDI

（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-proof relays are assembled on PCB.

（3）The customer special requirement express as special code after evaluating by Sanyou.

（4）“Ex” stands for products compliant with IEC60079-15.

Examples of Ordering Codes

SRD-S-112DM2-L relay SRD-L , Flux-proof , rated DC voltage 12V ,coil power 0.36W,1NO,and contact material $AgSnO_2$.

SRD-S-112D4-L relay SRD-L , 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.