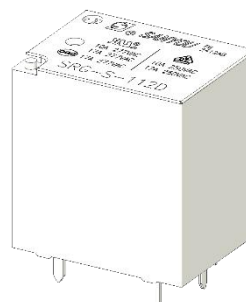


Features:

- High Contact Switching Capability:17A.
- Micro-miniature relay, standard PCB terminals.
- Compliant with IEC60335-1(GWT)&CT1250V.
- Ambient temperature range -40°C~105°C, Switching capability 17A/277VAC;TV-8/125VAC,Max.20A/277VAC.
- Low coil power 0.36W, Class F insulation system.
- Withstand 6KV impulse voltage. Dielectric strength 2.5KV r.m.s.

Typical Applications:

- Home appliances such as air conditioner, electrical heater, etc.
- Automat.
- Office equipment such as computer, fax machine, etc.
- Automatic power window, car antenna, door lock, etc.



Approvals

UL, c-UL (File No.): E190598
VDE (File No.): 40037165
CQC (File No.): CQC13002089151

Contact Data

Contact arrangement	1form C(CO)or1form A(NO)
Rated voltage	250VAC
Max.switching voltage	400VAC
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	15ms/10ms
Electrical endurance	See electrical endurance graph

Contact ratings

Type	Contact	Load	Cycles
IEC 61810-1			
SRG	A/C(NO)	17A,250VAC,cos φ=1,105°C	1X10 ⁵
EN 60730-1			
SRG	A/C(NO)	17A,250VAC,cos φ=1,105°C	1X10 ⁵
UL 60947-4-1			
SRG	A/C(NO)	17A,250VAC,cos φ=1,105°C	1X10 ⁵
SRG	A/C(NO)	1 hp,250VAC,40°C	3X10 ⁴
SRG	A/C(NO)	TV-8,125VAC,40°C	2.5X10 ⁴
GB/T 21711.1-2023⁴			
SRG	A/C(NO)	17A,250VAC,105°C	2X10 ⁴
Mechanical endurance			≥1x10 ⁷

Coil Data

Coil voltage range:	5 to 48VDC
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
18	≤13.5	≥1.8	900	360
24	≤18	≥2.4	1600	360
36	≤27	≥3.6	3600	360
48	≤36	≥4.8	6400	360

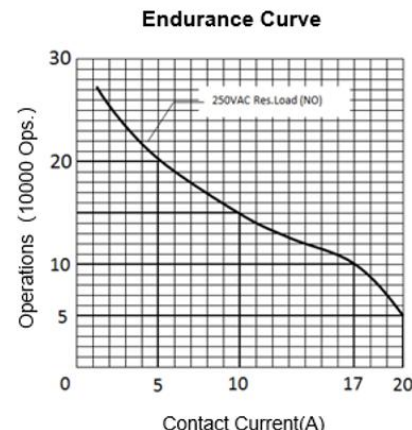
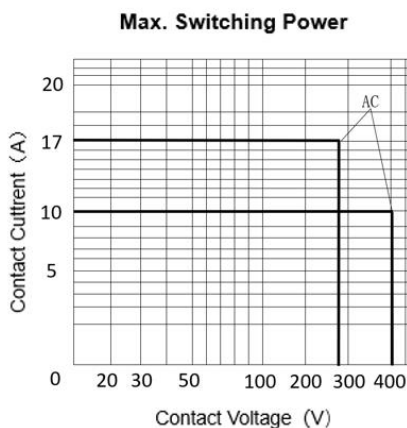
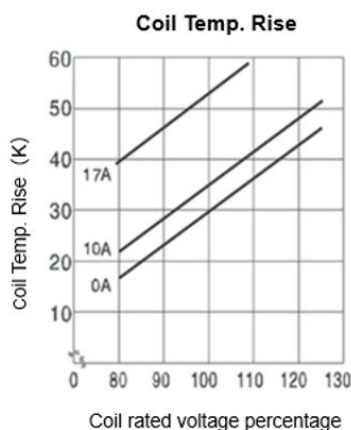
All figures are given for coil without pre-energization, at ambient temperature 20°C

Insulation Data

Initial dielectric strength	
between open contacts	1000VAC
between contact and coil	2500VAC
Clearance/Creepage	
between contact and coil (Clearance)	≥5.0mm(actual)
between contact and coil (Creepage)	≥5.0mm(actual)
Material group of insulation parts	IIIa
Tracking index of relay	PTI 175V/PTI 250V

Other Data

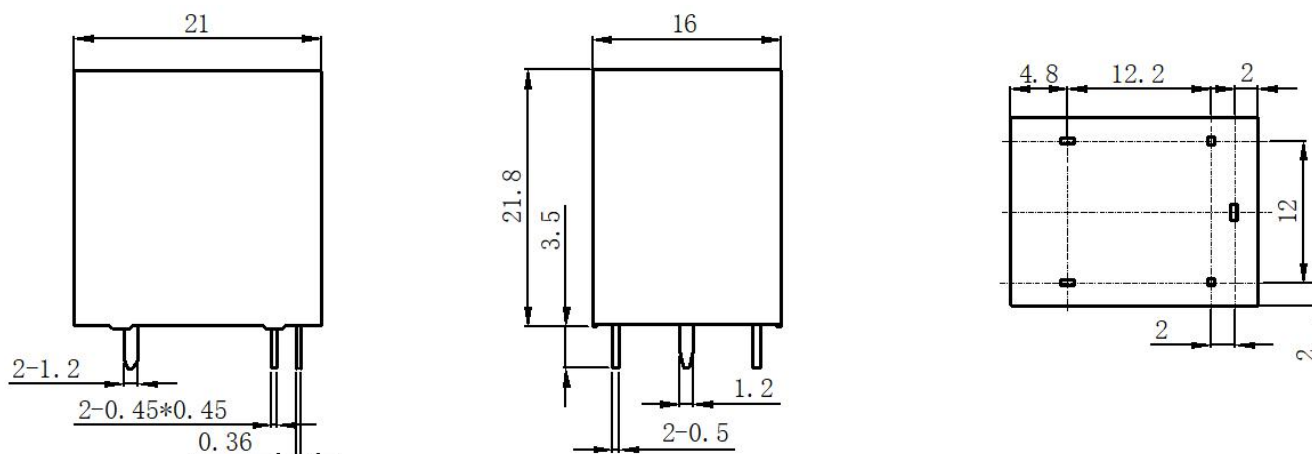
Material compliance:	EU RoHS/ELV, China RoHS, REACH
Ambient temperature	-40°C to +105°C,
Category of environmental protection	RTII - flux proof
IEC 61810	RTIII - Sealed type washable
Weight	Approx.15g
Resistance to soldering heat THT (IEC 60068-2-20)	260°C/5s
Packaging/unit	tube, tray



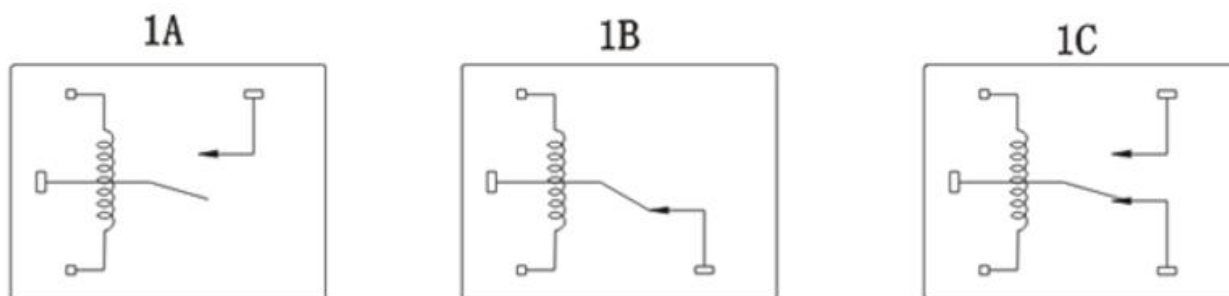
Note:

- (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.

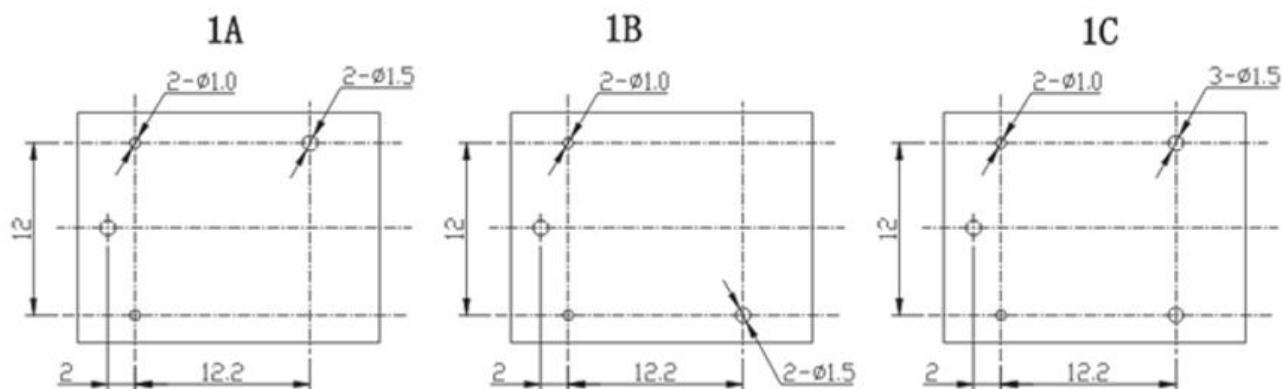
Dimensions



Wiring Diagrams



PCB Layouts (bottom view)



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

SRG	-S	-1	12	D	M	1	-F	-XX	
									Special Parameter :
									Nil-Standard type
									Letter or number-Special requirement
									Insulation System :
									Nil-Standard
									F-Class F
									Contact Material :
									Nil-AgSnO ₂
									1-AgNi
									Contact Arrangement:
									Nil-Form C
									B-Form B
									M-Form A
									Coil Power :
									D-0.36W
									Rated Coil Voltage(VDC):
									05, 06, 09, 12, 18, 24, 36, 48
									Number of Poles:
									1-1Pole
									Protective Construction
									S - Flux-proof SH- Sealed type washable
									Type: SRG

- (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.
- (4) Ex suffix stands for product compliant with IEC60079-15.

Examples of Ordering Codes

SRG-S-112DM relay SRG, Flux-proof, rated DC voltage 12V, coil power 0.36W, 1NO, and contact material AgSnO₂.

SRG-S-112D relay SRG, Flux-proof, rated DC voltage 12V, coil power 0.36W, 1CO, 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.