

Features:

- Miniature relay with high switching capability: 30A.
 Contact form: Form A, Form B or Form C.
 Special type of 4000VAC dielectric strength and 6000V surge voltage (1.2/50µS) between coil and contact available.
- Satisfy IEC60335-1 /IEC60079-15 compliance 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.): R50143450

CQC (File No.): CQC02001002109, CQC10002050461, CQC21002306488

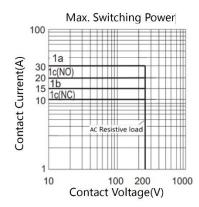
Contact Data		
Contact arrangement	1form C(CO)or 1form A(NO)	
Rated voltage	250VAC	
Max.switching voltage	277VAC	
Rated current	1form C(20A)or 1form A(30A)	
Min. recommended contact load	1A, 6VDC	
Breaking capacity max.	5000VA or 7500VA	
Contact material	AgSn0 ₂	
Frequency of operation	360 ops./h	
Operate/release time max.	15ms/10ms	
Electrical endurance	See electrical endurance graph	

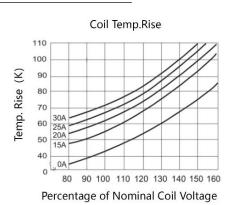
Contact rati	~~~
Contact rati	11015

COLLE	aot ratings			
Туре	Contact	Load	Cycles	
IEC 618	10			
SLA	C(NC)	10A,240VAC,85℃	1X10⁵	
SLA	A(NO)	30A,250VAC,105℃	1X10⁵	
UL 6094	1 7-4-1			
SLA	A/C(NO)	30A,240VAC,85℃	1X10⁵	
SLA	B(NC)	15A,240VAC,85℃	1X10⁵	
SLA	C(NO)	20A,240VAC,85°C	1X10⁵	
SLA	C(NC)	10A,240VAC,85℃	1X10⁵	
SLA	A(NO)	30A,250VAC,105°C	1X10⁵	
GB/T 21	1711.1-2023			
SLA	A/C(NO)	30A,250VAC,85℃	2X10 ⁴	
SLA	B(NC)	15A,250VAC,85℃	2X10 ⁴	
SLA	C(NO)	20A,250VAC,85°C	2X10 ⁴	
SLA	C(NC)	10A,250VAC,85℃	2X10 ⁴	
SLA	A(NO)	30A,250VAC,105°C	1X10⁵	
EN 607	30-1			
SLA	A(NO)	30A,240VAC,85℃	1X10⁵	
SLA	B(NC)	15A,240VAC,85℃	1X10⁵	
SLA	C(NO)	20A,240VAC,85℃	1X10⁵	
Mechan	ical endurance		≥1x10 ⁷	

Coil Data

Coil voltage range:	5 to 110VDC
Operative range, IEC 61810	2
Coil insulation system according UL	Class F













Coil Data(continued)

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	27	900			
6	≤4.5	≥0.30	40	900			
9	≤6.75	≥0.45	90	900			
12	≤9	≥0.60	160	900			
15	≤11.25	≥0.75	250	900			
18	≤13.5	≥0.90	360	900			
24	≤18	≥1.20	640	900			
48	≤36	≥2.40	2560	900			
110	≤82.5	≥5.50	13400	900			

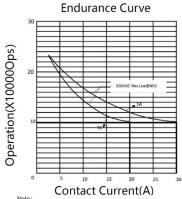
All figures are given for coil without pre-energization, at ambient temperature 20°C

Insulation Data

Initial dielectric strength		
between open contacts	1500VAC	
between contact and coil	2500VAC	
Clearance/Creepage		
between contact and coil (Clearance)	≥3.5mm(actual)	
between contact and coil (Creepage)	≥5.0mm(actual)	
Material group of insulation parts	Illa	
Tracking index of relay	PTI 175V/PTI 250V	

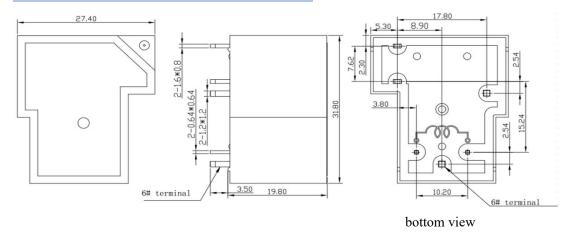
Other Data

Material compliance: EU RoHS/ELV, China RoHS, REACH -40°C to +85°C,-40°C to +105°C Ambient temperature Category of environmental protection IEC 61810 RTII - flux proof RTIII - Sealed type washable Weight Approx. 24.0g Resistance to soldering heat THT (IEC 60068-2-20) 260°C/5s Packaging/unit tube, tray

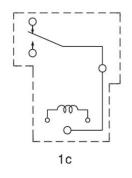


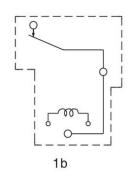
(1) Test conditions: room temperature, flux-proof product,

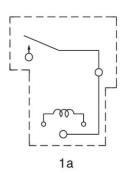
Dimensions



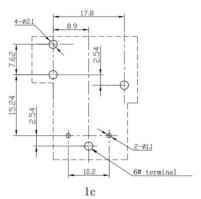
Wiring Diagrams (bottom view)

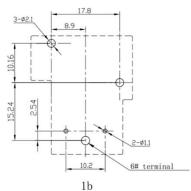


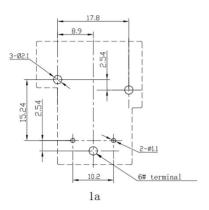




PCB Layouts (bottom view)







In case of no tolerance shown on outline dimension

If dimension < 1 mm, tolerance: ± 0.2 mm If dimension 1~5mm, tolerance: ± 0.3 mm If dimension > 5mm, tolerance: ± 0.4 mm Notes:

1.The dimension of pin is the size before tinning

2. Tolerance of PCB layout: ± 0.1 mm.



Product Code Structure

SLA	-S	-1	12	D	М	J	2	-F	-XX	
									Nil - S	cial Parameter: Standard type er or number - Special requirement
									Nil - 9 B - C	ation System: Standard Class B Class F
									Nil - A	act Material: AgSnO ₂ gNi + AgSnO ₂
									Nil - S	ninal Type: Standard type /ithout 6# terminal
									Nil - I B - F	act Arrangement: Form C form B Form A
									Coil F D - 0	Power: .9W
										d Coil Voltage(VDC): 06, 09, 12, 15, 18, 24, 48, 110
									Numl 1 - 1F	ber of Poles: Pole
										ective Construction : lux-proof SH - Sealed type washable
									Туре	: SLA

- (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) C1 suffix stands for product in accordance to IEC60335-1(GWT) & CTI250V.
- (5) Ex suffix stands for product compliant with IEC60079-15.

Examples of Ordering Codes

SLA-S-112DM relay SLA, Flux-proof, rated DC voltage 12V, coil power 0.9, 1NO, and contact material AgSnO₂.

SLA-S-112DJ relay SLA, Flux-proof, rated DC voltage 12V, coil power 0.9, 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.