

Features:

- Miniature relay with high switching capability: 40A.
 Contact form: Form A or Form C.
 Special type of 4000VAC dielectric strength and 6000V surge voltage (1.2/50µS) between coil and contact available.
- 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

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

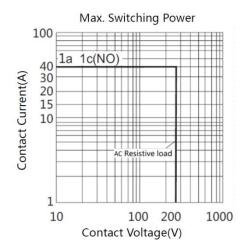
Contact Data	
Contact arrangement	1form C(CO)or 1form A(NO)
Rated voltage	250VAC
Max.switching voltage	277VAC
Rated current	40A
Min. recommended contact load	1A, 6VDC
Breaking capacity max.	11080VA
Contact material	AgSn02
Frequency of operation	360 ops./h
Operate/release time max.	15ms/10ms
Electrical endurance	See electrical endurance graph

Contact ratings

Туре	Contact	Load	Cycles	
UL 60947	7-4-1		•	
SLA-G	A/C(NO)	40A,277VAC,75℃	3X10 ⁴	
GB/T 217	711.1-2023			
SLA-G	A/C(NO)	40A,277VAC,70°C	2X10 ⁴	
Mechanio	cal endurance		≥1x10 ⁷	

Coil Data

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







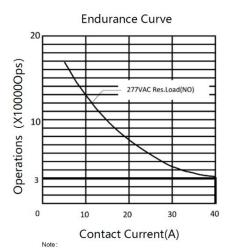
Coil Data(continued)							
Rated	Operate	Release	Coil	Rated coil			
voltage	voltage	voltage	resistance	powers			
VDC	VDC	VDC	Ω (1±10%)	mW			
5	≤3.75	≥0.25	27	900			
6	≤4.5	≥0.30	40	900			
9	≤6.75	≥0.45	90	900			
12	≤9	≥0.60	160	900			
15	≤11.25	≥0.75	250	900			
18	≤13.5	≥0.90	360	900			
24	≤18	≥1.20	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)	≥5mm(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 Ambient temperature -40°C to +75°C Category of environmental protection IEC 61810 RTII - flux proof RTIII - Sealed type washable Approx. 24.0g Weight Resistance to soldering heat THT (IEC 60068-2-20) 260°C/5s Packaging/unit tube, tray

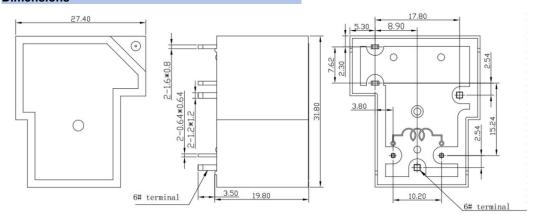


(1) Test conditions: room temperature, flux-proof product,

(2)The above curves are for reference only, and the final result is subject to the experiment.

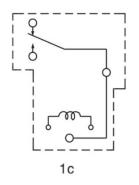


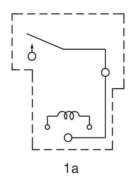
Dimensions



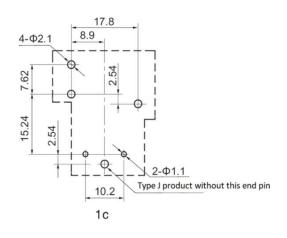
bottom view

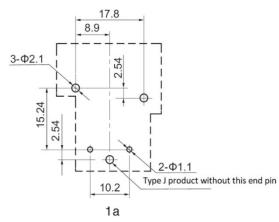
Wiring Diagrams





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

SLA	-S	-1	12	D	M	J	2	-G	-F	-XX			
											Special Parameter: Nil - Standard type Letter or number - Special requirement		
													Insulation System : Nil - Standard B - Class B F - Class F
													Parameter sign: G-High contact load(40A)
											Contact Material : Nil - AgSnO ₂		
											Terminal Type: Nil - Standard J - Without 6# terminal		
											Contact Arrangement: Nil - Form C M - Form A		
											Coil Power: D - 0.9W		
											Rated Coil Voltage(VDC): 05, 06, 09, 12, 15, 18, 24, 48, 110		
											Number of Poles: 1 - 1Pole		
											Protective Construction S - Flux-proof SH - Sealed type washable		
											Type: 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.

Examples of Ordering Codes

SLA-S-112DM-G relay SLA, Flux-proof, rated DC voltage 12V, coil power 0.9W, 1NO, and contact material AgSnO₂, 40A. SLA-S-112DJ-G relay SLA, Flux-proof, rated DC voltage 12V, coil power 0.9W, 1CO, and contact material AgSnO₂, 40A.

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.