

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.
- Protection quick connect terminal type 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

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	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			
SLC	C(NC)	10A,240VAC,85℃	1X10 ⁵
UL 60947-4-1			
SLC	A/C(NO)	30A,240VAC,85℃	1X10 ⁵
SLC	B(NC)	15A,240VAC,85℃	1X10 ⁵
SLC	C(NO)	20A,240VAC,85℃	1X10 ⁵
SLC	C(NC)	10A,240VAC,85℃	1X10 ⁵
GB/T 21711.1-2023			
SLC	A/C(NO)	30A,250VAC,85℃	2X10 ⁴
SLC	B(NC)	15A,250VAC,85℃	2X10 ⁴
SLC	C(NO)	20A,250VAC,85℃	2X10 ⁴
SLC	C(NC)	10A,250VAC,85℃	2X10 ⁴
EN 60730-1			
SLC	A(NO)	30A,240VAC,85℃	1X10 ⁵
SLC	B(NC)	15A,240VAC,85℃	1X10 ⁵
SLC	C(NO)	20A,240VAC,85℃	1X10 ⁵
Mechanical 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 voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ω (±10%)	Rated coil powers 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

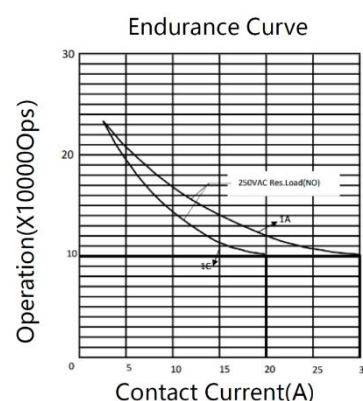
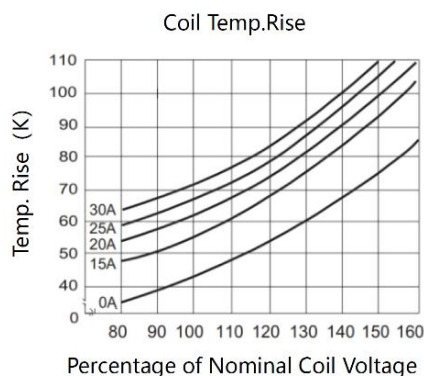
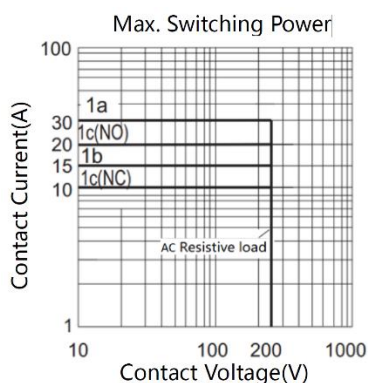
All figures are given for coil without pre-energization, at ambient temperature 20℃

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	IIIa
Tracking index of relay	PTI 175V

Other Data

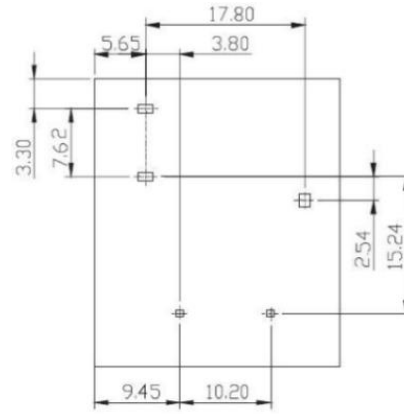
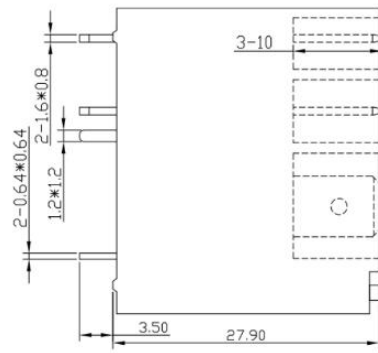
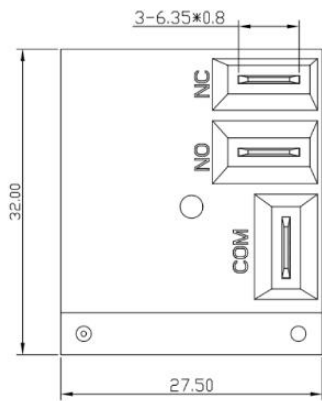
Material compliance:	EU RoHS/ELV, China RoHS, REACH
Ambient temperature	-40℃ to +85℃
Category of environmental protection	
IEC 61810	RTII - flux proof RTIII - Sealed type washable
Weight	Approx. 27.0g
Resistance to soldering heat THT (IEC 60068-2-20)	260℃/5s
Packaging/unit	tube, tray



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.

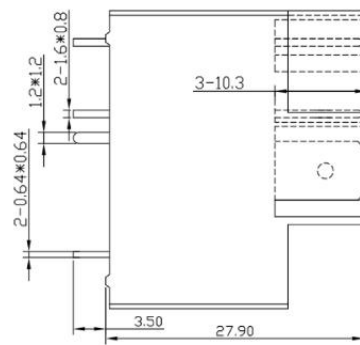
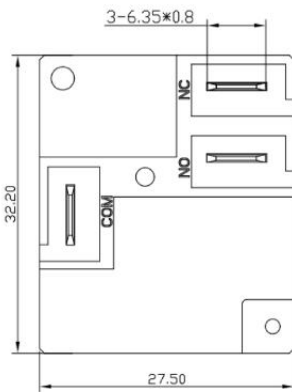
Dimensions

SLC



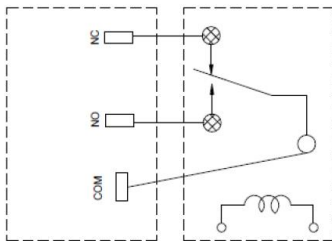
bottom view

SLC-K

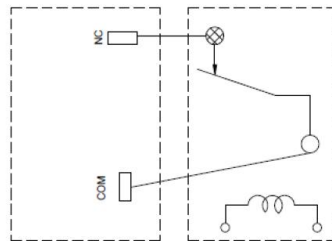


In case of no tolerance shown on outline dimension
 If dimension < 1 mm, tolerance: $\pm 0.2\text{mm}$
 If dimension 1~5mm, tolerance: $\pm 0.3\text{mm}$
 If dimension > 5mm, tolerance: $\pm 0.4\text{mm}$

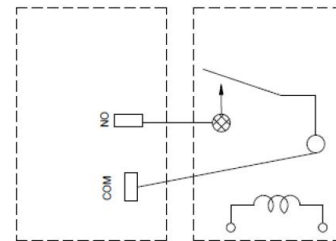
Wiring Diagrams



top view bottom view
1c

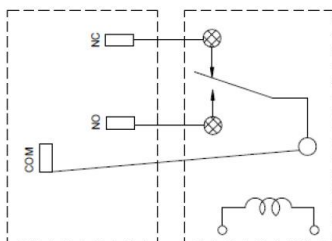


top view bottom view
1b

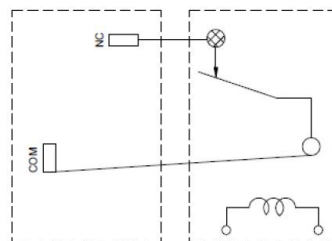


top view bottom view
1a

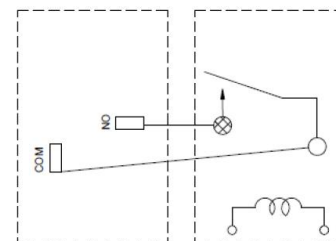
SLC Wiring Diagram



top view bottom view
1c



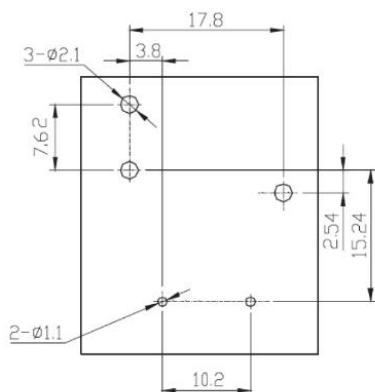
top view bottom view
1b



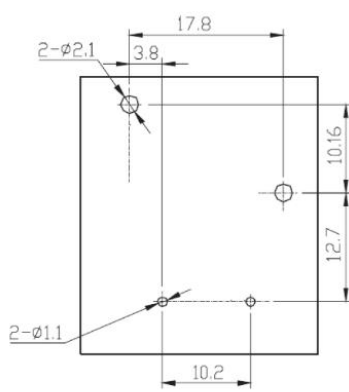
top view bottom view
1a

SLC-K Wiring Diagram

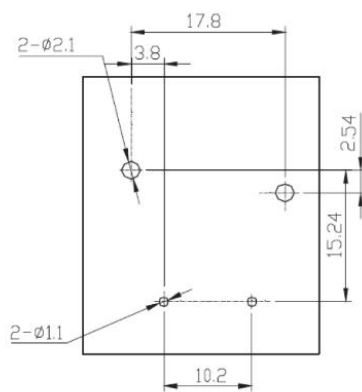
PCB Layouts (bottom view)



1c



1b



1a

Notes:

- 1.The dimension of pin is the size before tinning
- 2.Tolerance of PCB layout: ± 0.1 mm.

Product Code Structure

SANYOU RELAYS

2 -G -P -F -XX

Special Parameter:

Nil - Standard type

Letter or number - Special requirement

Insulation System:

Nil - Standard

B - Class B

F - Class F

COM Flat quick-connect terminals:

Nil - Yoke, flat quick-connect terminal integration

P - Rivet yoke with quick-connect terminal (only for SLC-K)

Parameter sign:

Nil - Standard type

Contact Material:

Nil - AgSnO₂

Terminal position:

Nil - COM terminal and NC/NO terminal on the same side.

K - COM terminal and NC/NO terminal on the opposite side.

Contact Arrangement:

Nil - Form C

B - Form B

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: SLC

- (1) Flux-proofed 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-proofed relays are assembled on PCB.
- (3) Special requirements of customers (XX) shall be evaluated by our company and marked by characteristic symbols.
- (4) C1 suffix stands for product in accordance to IEC60335-1(GWT) & CTI250V.

Examples of Ordering Codes

SLC-S-112DM	relay SLC, Flux-proof, rated DC voltage 12V, coil power 0.9W, 1NO, and contact material AgSnO ₂
SLC-S-112D	relay SLC, Flux-proof, rated DC voltage 12V, coil power 0.9W, 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.