

**Features:**

- Miniature relay with high switching capability: 30A.
- Copper terminal products are available.
- Special type of 4000VAC dielectric strength and 6000V surge voltage (1.2/50μs) between coil and contact available.
- IEC60335-1 compliant product is available.
- 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  
 TUV (File No.): R50143450  
 CQC (File No.): CQC02001002109, CQC10002050461, CQC21002306488

**Contact Data**

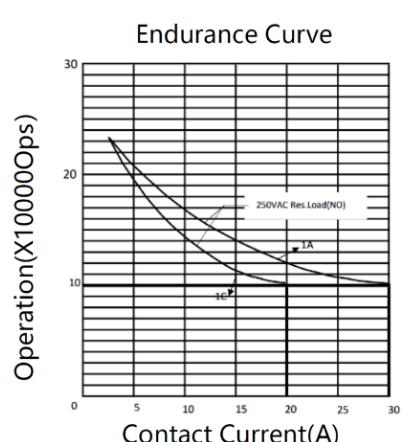
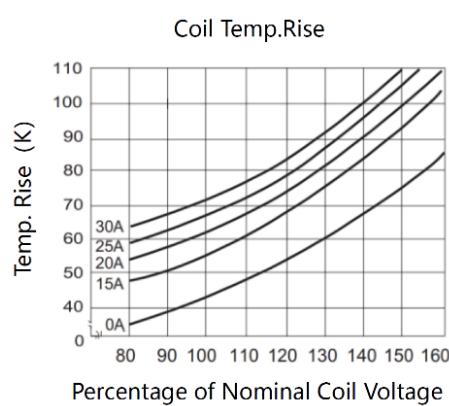
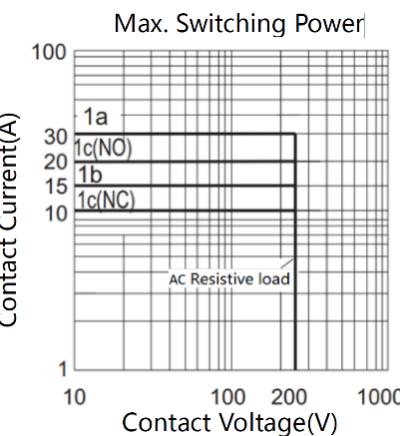
Contact arrangement	1form C( CO)or 1form A( NO)
Contact resistance	100mΩ Max.(at 1A 6VDC)
Rated voltage	250VAC
Max.switching voltage	277VAC
Rated current	1form C( 20A)or 1form A( 30A)
Min. recommended contact load	1A, 6VDC
Breaking capacity max.	5000VA or 7500VA
Contact material	AgSnO <sub>2</sub>
Frequency of operation	360 ops./h
Operate/release time max.	15ms/10ms
Electrical endurance	See electrical endurance graph

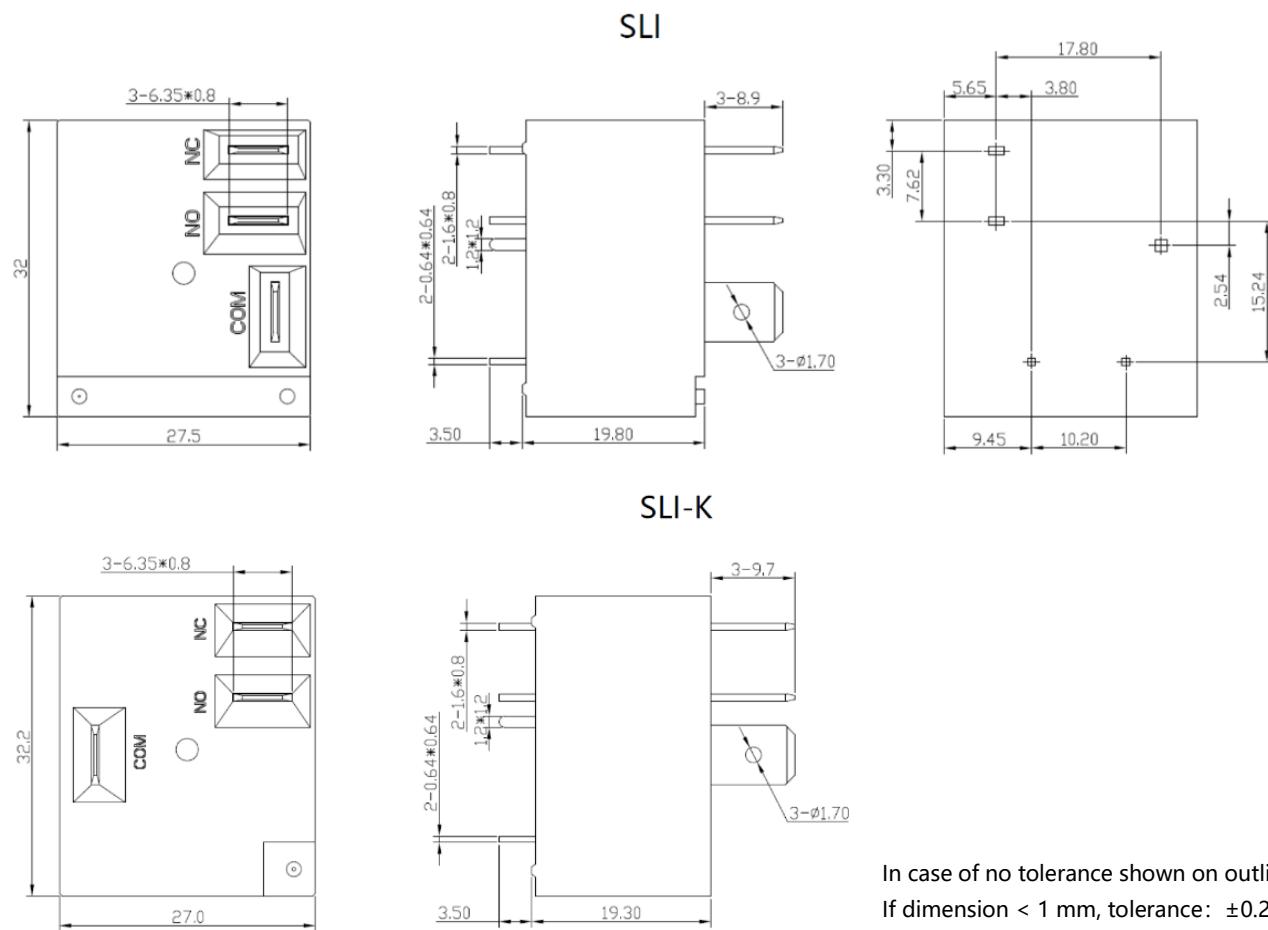
**Contact ratings**

Type	Contact	Load	Cycles
<b>IEC 61810</b>			
SLI	C(NC)	10A,240VAC,85°C	1X10 <sup>5</sup>
<b>UL 60947-4-1</b>			
SLI	A(NO)	30A,240VAC,85°C	1X10 <sup>5</sup>
SLI	B(NC)	15A,240VAC,85°C	1X10 <sup>5</sup>
SLI	C(NO)	20A,240VAC,85°C	1X10 <sup>5</sup>
SLI	C(NC)	10A,240VAC,85°C	1X10 <sup>5</sup>
<b>GB/T 21711.1-2023</b>			
SLI	A/C(NO)	30A,250VAC,85°C	2X10 <sup>4</sup>
SLI	B(NC)	15A,250VAC,85°C	2X10 <sup>4</sup>
SLI	C(NO)	20A,250VAC,85°C	2X10 <sup>4</sup>
SLI	C(NC)	10A,250VAC,85°C	2X10 <sup>4</sup>
<b>EN 60730-1</b>			
SLI	A(NO)	30A,240VAC,85°C	1X10 <sup>5</sup>
SLI	B(NC)	15A,240VAC,85°C	1X10 <sup>5</sup>
SLI	C(No)	20A,240VAC,85°C	1X10 <sup>5</sup>
Mechanical endurance			≥1X10 <sup>7</sup>

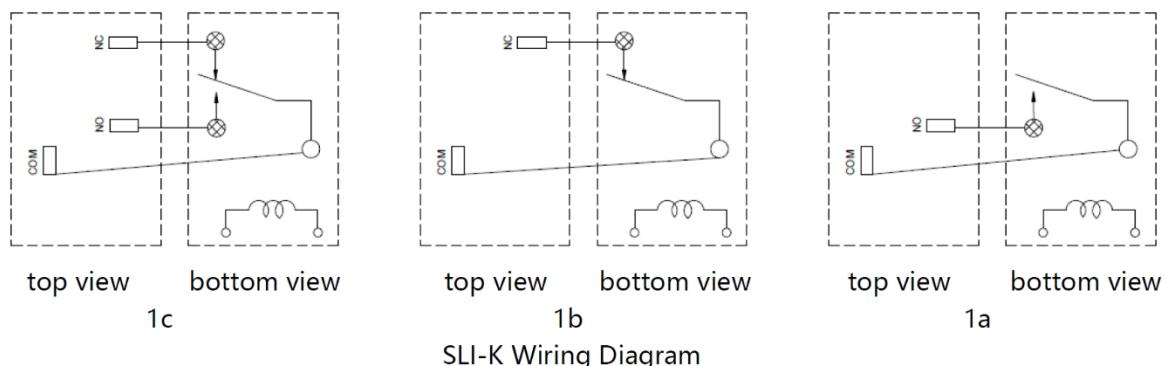
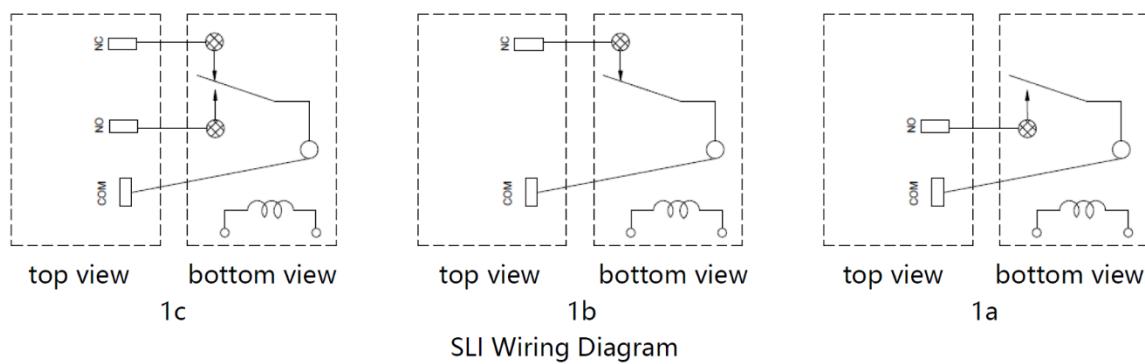
**Coil Data**

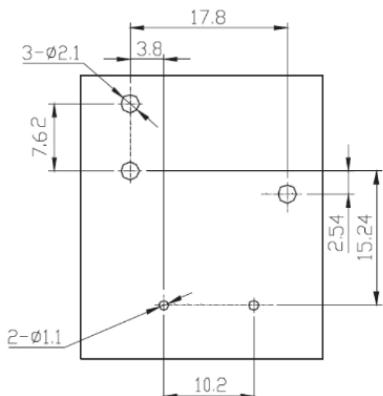
Coil voltage range:	5 to 110VDC
Operative range, IEC 61810	2
Coil insulation system according UL	Class F



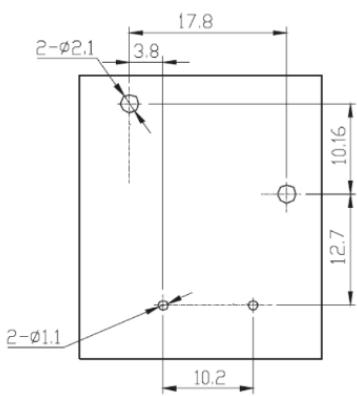
**Dimensions**


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:  $\pm 0.4\text{mm}$

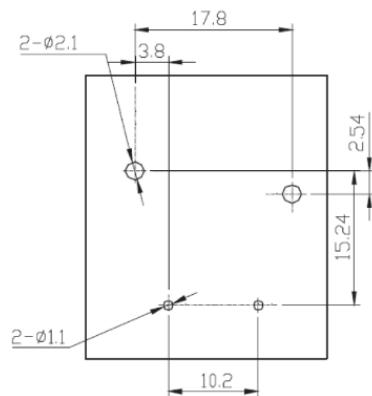
**Wiring Diagrams**


**PCB Layouts (bottom view)**


1c



1b



1a

**Product Code Structure**

SLI	-S	-1	12	D	M	K	2	-G	-P	-F	-XX
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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 SLI-K)

Parameter sign:

Nil - Standard type

G - High contact load(40A)

Contact Material:

 Nil - AgSnO<sub>2</sub>

 2 - AgNi + AgSnO<sub>2</sub>

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: SLI

- (1) Flux-proof relays can not be used in the environment with pollutants like H<sub>2</sub>S, SO<sub>2</sub>, NO<sub>2</sub>, 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

SLI-S-112DM      relay SLI, Flux-proof, rated DC voltage 12V, coil power 0.9W, 1NO, and contact material AgSnO<sub>2</sub>.  
SLI-S-112D      relay SLI, Flux-proof, rated DC voltage 12V, coil power 0.9W, 1CO, and contact material AgSnO<sub>2</sub>.

#### 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.