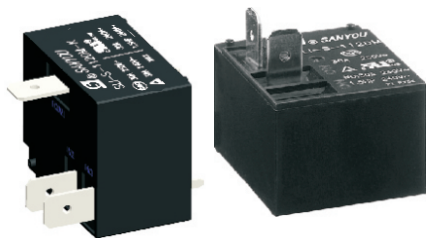


Miniature High Power Relay

SLI-Series

Features

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



Safety Approval

UL , C-UL File No. : E190598

TUV File No. : R50143450

CQC File No. : CQC02001002109

VDE File No. : 40036707

Contact Capacity

Model	SLI-DM	SLI-DB	SLI-D
Nominal switching capacity (res. load)	30A 250VAC	15A 250VAC	20A/10A 250VAC
Max. switching current	30A	20A	20A
Max. switching voltage	250VAC	250VAC	250VAC
Max. switching power	7,500VA	5,000VA	5,000VA

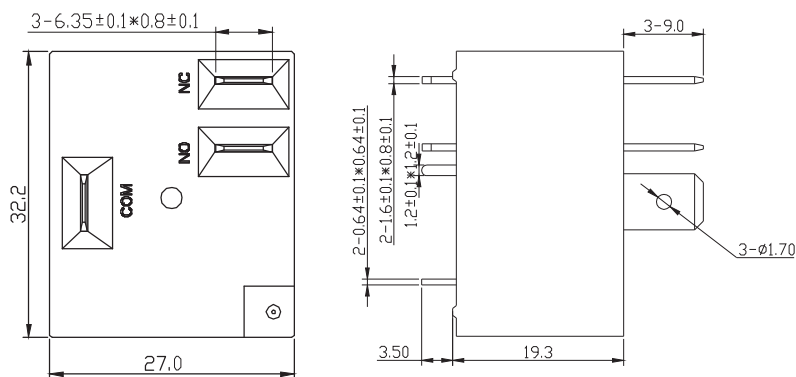
Characteristic Data

Contact material	Silver alloy	
Initial contact resistance (at 6VDC 1A)	50m Ω Max.	
Operate time (at nominal volt.)	15msec. Max.	
Release time (at nominal volt.)	10msec. Max.	
Initial insulation resistance	100M Ω Min.(DC500V)	
Initial dielectric strength	Between open contacts : AC1,500V , 50/60Hz 1min.	
	Between coil and contact : AC2,500V , 50/60Hz 1min.(AC4KV available)	
Vibration resistance	Functional	10 ~ 55Hz at double amplitude of 1.5 mm
	Destructive	10 ~ 55Hz at double amplitude of 1.5 mm
Shock resistance	Functional	10G Min.
	Destructive	100G Min.
Endurance (operations)	Mechanical (at 10,800 ops./h)	10,000,000 cycles
	Electrical (at 600 ops./h)	100,000 cycles
Ambient temperature	-40°C ~ +105°C (no condensation)	
Unit weight	Approx.28.0g	

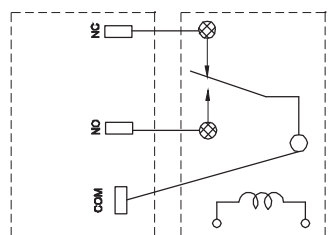
Coil Data (at 20°C)

Nominal voltage (VDC)	Nominal operating current \pm 10% (mA)	Coil resistance \pm 10% (Ω)	Max. allowable voltage	Pick-up voltage (Max.)	Drop-out voltage (Min.)	Nominal operating power
5	180.00	27	110 % of nominal voltage	75 % of nominal voltage	5 % of nominal voltage	0.90W
6	150.00	40				
9	100.00	90				
12	75.00	160				
15	60.00	250				
18	50.00	360				
24	37.50	640				
48	18.75	2,560				
110	8.21	13,400				

SLI-K



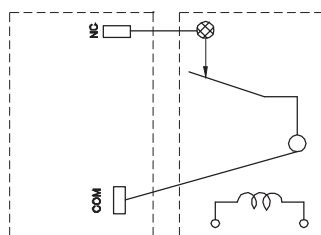
Unless otherwise specified :
 If dimension < 1mm, tolerance : ±0.2mm;
 If dimension 1~5mm, tolerance : ±0.3mm;
 If dimension > 5mm, tolerance : ±0.4mm.
 Note : 1. Extended terminal dimension is dimension before soldering.
 2. Tolerance of P.C.B. layout : ±0.1mm.



(bottom view)

(top view)

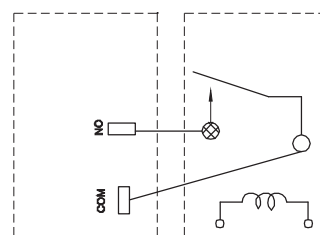
1c



(bottom view)

(top view)

1b

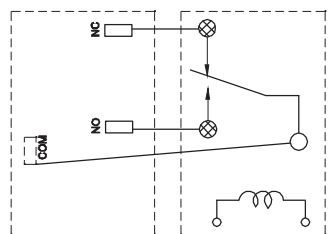


(bottom view)

(top view)

1a

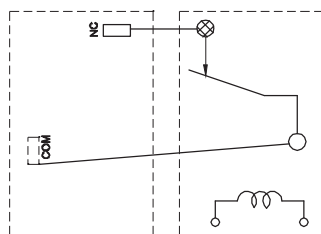
SLI Wiring Diagram



(bottom view)

(top view)

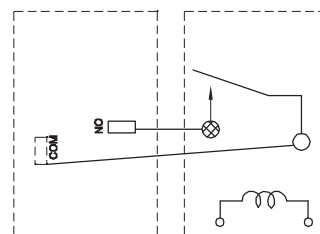
1c



(bottom view)

(top view)

1b

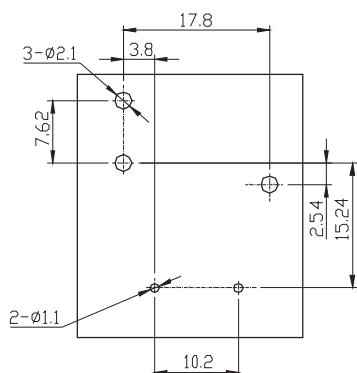


(bottom view)

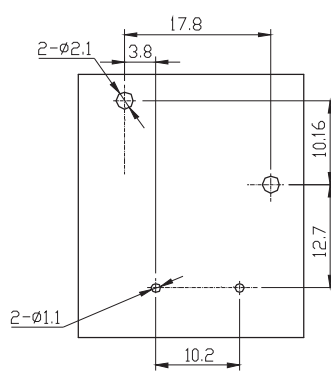
(top view)

1a

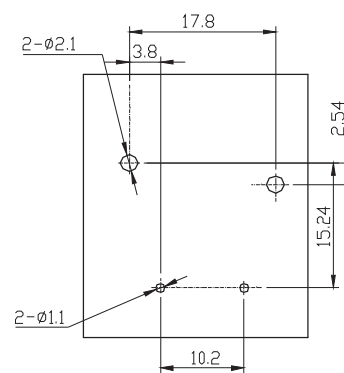
SLI-K Wiring Diagram



1c



1b



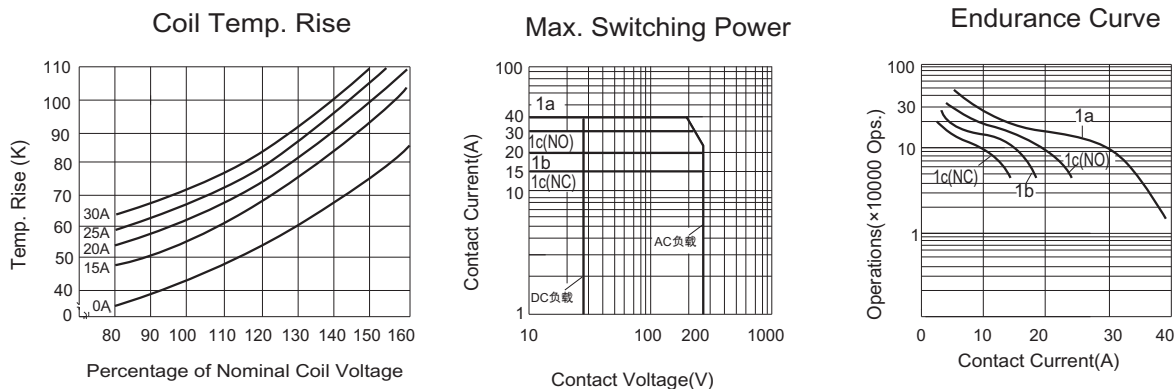
1a

P.C.B. Layout(bottom view)

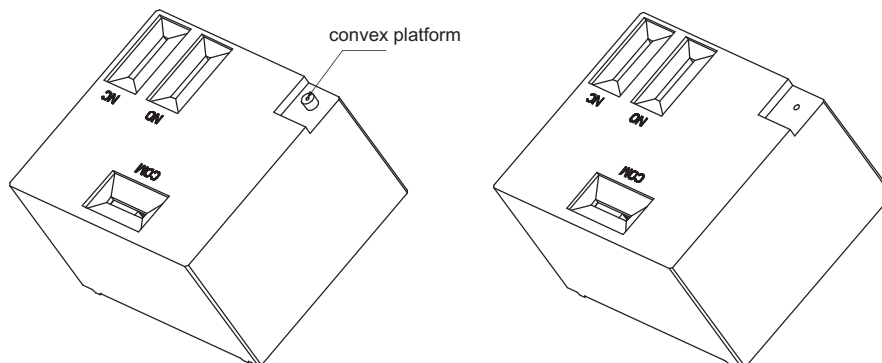
Typical Applications

- Car
- Air conditioner
- Heater and ventilation equipment
- Home appliances

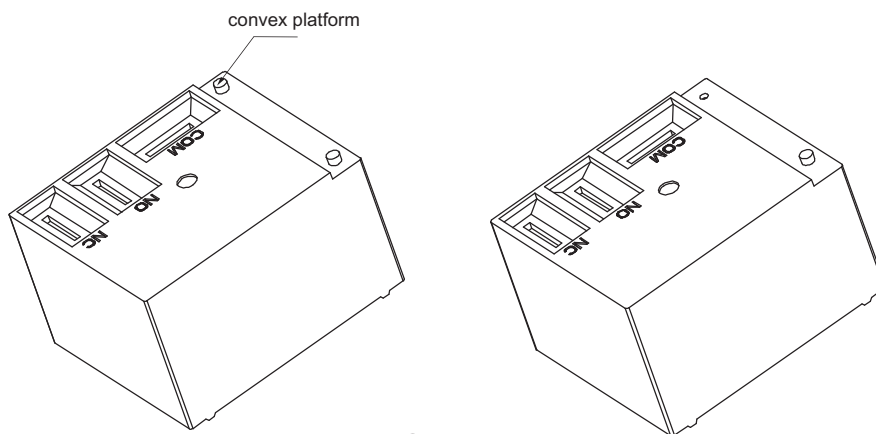
Characteristic Curves



Note: If you choose the sealed type, before using, please remove the convex platform at the top of the case to ensure the normal performance of the relay after the completion of a PCB operations. they are as shown in the following diagram:



SLI-K



with convex platform

without convex platform

Disclaimer:

This datasheet is the customers' reference. All the specification are subject to change without notice.

We could not evaluate all the performance and all the parameters for every possible application. Thus the user should in a right position to choose the suitable product for their own application. If there is any query, please contact Sanyou for the technical service. However it is the user's responsibility to determine which product should be used only.