

### Features

- 25 A contact switching capability
- Low coil power consumption and Pulse driven
- Dielectric Strength of 4KV between coil and contacts
- Excellent anti shock ability and high reliability
- Both single and dual coil relay available
- Environmental friendly product (RoHS Compliant)
- Design and manufacture according to standard of DIN IEC 255.

### Contact Capacity

Model	SY73
Nominal switching capacity (res. load )	25A 250VAC
Max. switching current	25A
Max. switching voltage	250VAC
Max. switching power	6,250 VA

### Characteristic Data

Contact material	Silver alloy	
Initial contact resistance( at6 VDC 1A)	10mΩ Max.	
Operate time (at nominal volt . . )	10msec. Max.	
Release time (at nominal volt . . )	10msec. Max.	
Initial insulation resistance	1,000M Ω Min.(DC500V)	
Initial dielectric strength	Between open contacts : AC1,500V , 50/60Hz 1min	
	Between coil and contact : AC4,000V , 50/60Hz 1min	
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 3,600 ops./h)	100,000 cycles
	Electrical (at 600 ops./h)	30,000 cycles
Ambient temperature	-40°C ~ +70°C (no condensation)	

### Coil Data (at 20°C)

Nominal voltage (VDC)	Single coil resistance 10% ( Ω )	Dual coil resistance 10% ( Ω )		Operate voltage (Max.)	Release voltage (Max.)	Pulse duration (ms)	Nominal operating power
5	25	12.5	12.5	80 % of nominal voltage	80 % of nominal voltage	100Min.	Single/Dual: 1.0W/2.0 W
6	36	18	18				
9	81	40.5	40.5				
12	144	72	72				
15	225	112.5	112.5				
18	324	162	162				
24	576	288	288				
48	2,304	1,152	1,152				

Standard

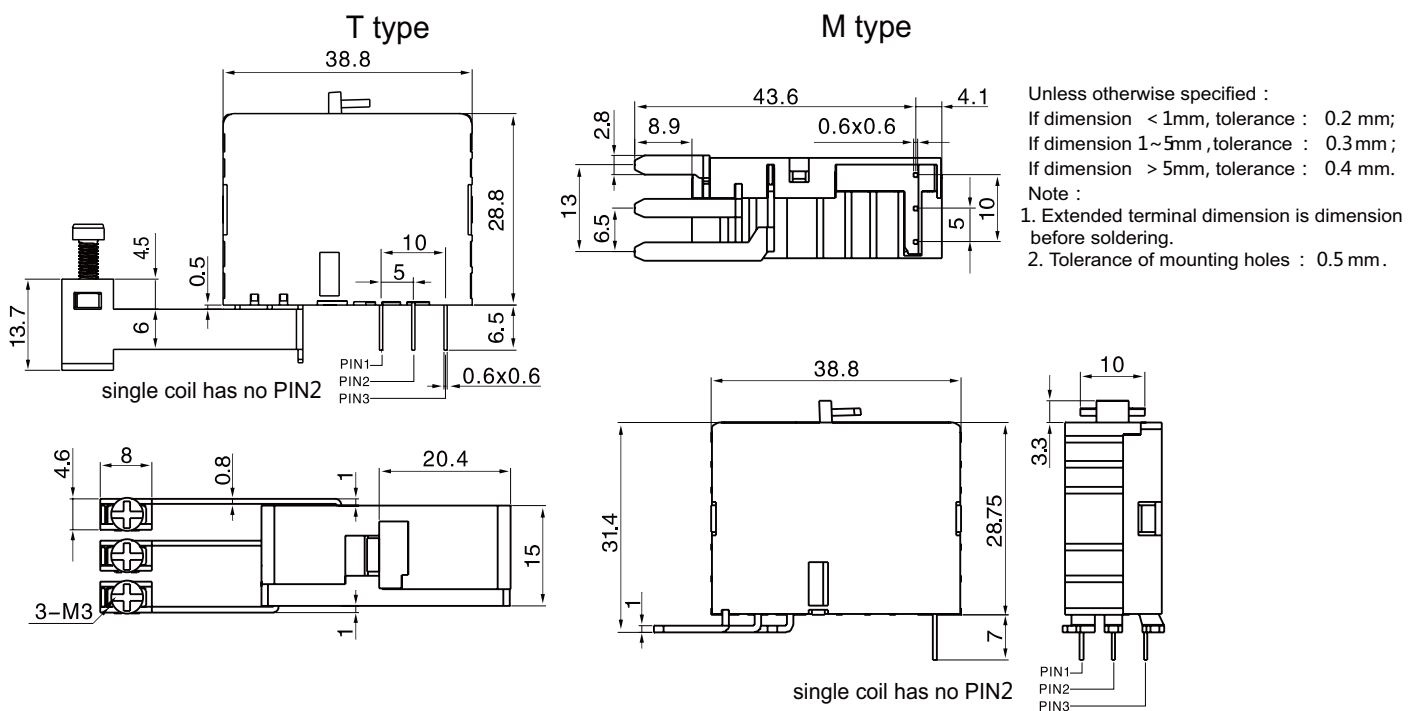
Coil Data (at 20 )

Nominal voltage (VDC )	Single coil resistance 10% (Ω)	Dual coil resistance 10% (Ω)		Operate voltage (Max .)	Release voltage (Max .)	Pulse duration (ms)	Nominal operating power
5	16.67	8.34	8.34	80 % of nominal voltage	80 % of nominal voltage	100Min.	Single/Dual: 1.5W/3.0W
6	24	12	12				
9	54	27	27				
12	96	48	48				
15	150	75	75				
18	216	108	108				
24	384	192	192				
48	1,536	768	768				

Ordering Information

Nomenclature							
SY73	-25	-1	12	D	M	2	R -XX
Special Parameter : Nil-Standard type,XX-Customized Requirement							
Polarity : Nil-Positive polarity, R-Reverse polarity							
Coil Type:1-Single coil,2-Dual coils							
Contact Form : M-Form A,B-FormB							
Coil Power : D:Standard type -Single/Dual:1.5W/3.0W;L:Sensitive Type-Single/Dual:1.0W/2.0W							
Coil Voltage (VDC) : 05 , 06 , 09 , 12 , 15 , 18 , 24 , 48							
Number of Poles : 1-1 Pole							
Switching Capacity: 25:25A							
Type Designation : SY73							

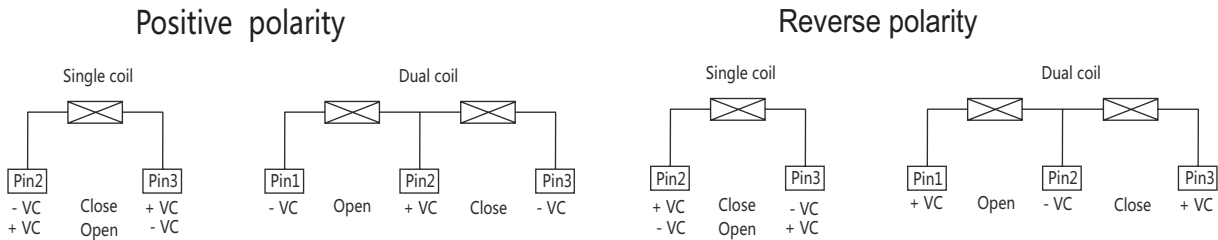
Outline Dimensions, Wiring Diagram Mounting Holes (unit : mm)



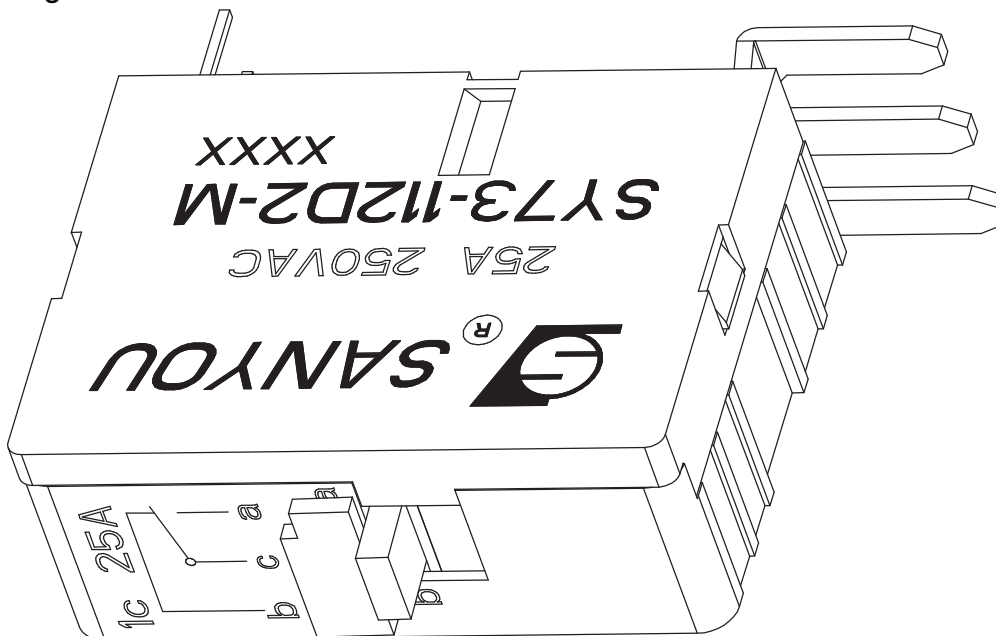
Typical Applications

- Industrial machinery
- Air conditioner control

## Wiring diagram



## Typical drawing



### Note:

Typical drawing is just for reference. customized terminals with metering components are acceptable. Please contact us for any special requirements.

### Announcements :

- 1 The magnetic latching relay is to be supplied with contacts close (Operate) or contacts open (Release), but the contact status may get changed due to unexpected shock or vibration during delivering or mounting. You can reset the contact status according to your requirement.
- 2 In order to make sure the contacts are completely closed or opened, energized voltage to Operate or Release coil should be the nominal operate/release voltage, impulse width should be 5 times more than specified operate/release time in the specification but less than 1 minute. Do not apply power to Operate and Release coils at the same time.

### Disclaimer:

This datasheet is just for customers' reference. The newest specification you can get from the website of sanyourelays. We could not evaluate all the performances and parameters for all possible applications, so the user should choose the suitable relay for their own application or require us to provide necessary help. If there is any query, please contact Sanyou for the technical service, however, it is the user's responsibility to determine which relay should be used.