

## Features:

- 80A switching capacity
- Low power consumption
- Strong anti-shock capability
- Withstand voltage between contacts and coil: 4 KV
- Single/Dual coils available
- Lead-out end form: LNNL
- Environmentally friendly products(Accord RoHS)
- Compliance with IEC 62052-31 Clause UC 2
- Dimensions: 54.4mm×30.0mm×18.0mm

### Typical Application:

- Smart meter
- Remote electrical control
- Power composite switch
- Electrical equipment



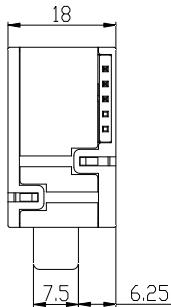
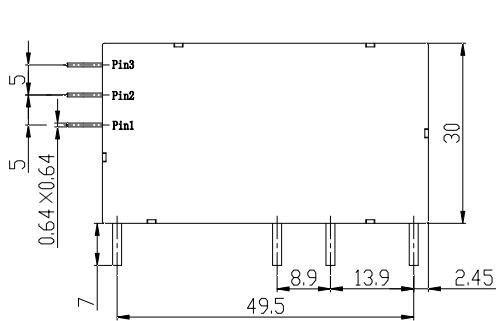
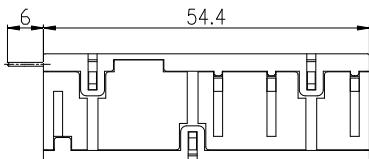
## Contact Data

Contact form	2 Form A or 2 Form B
Rated Load	80A 250VAC
Max.switching voltage	277V
Max.switching current	80A
Max.switching power	22,160VA
Contact Material	Silver alloy
Contact resistance	$\leq 1 \text{ m}\Omega$
Max.Operate/Release time	20ms/20ms
Electrical Endurance	$1 \times 10^4$ cycles (80A 250VAC Resistive electrical 5000 cycles+ Capacitive 5000 cycles PF=0.5 )
Mechanical Endurance	$1 \times 10^5$ cycles

## Insulation Data

Insulation Resistance	$\geq 1,000\text{M}\Omega$ (500VDC)	
Dielectric Strength	Contact-Contact	AC2,000V; 50/60Hz 1min
	Contact-Coil	AC4,000V; 50/60Hz 1min
Contact-Coil (Creepage distance)	$\geq 8.0\text{mm}$	

### Outline Dimensions (Unit: mm)



## Coil Data

Coil voltage range		5 to 48VDC		
Coil insulation system according UL		Class F		
Coil type, standard type				
Rated Voltage VDC	Operate/Release Voltage VDC	Coil resistance Ω (1±10%)	Rated power W	Pulse Duration ms
5	≤3.5	8.4/4.2	3/6	≥100
9	≤6.3	27/13.5	3/6	≥100
12	≤8.4	48/24	3/6	≥100
24	≤16.8	192/96	3/6	≥100
48	≤33.6	768/384	3/6	≥100

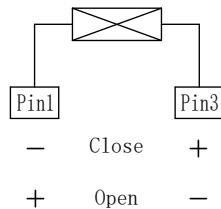
All figures are given for coil without pre-energization, at ambient temperature 20°C.

## Other Data

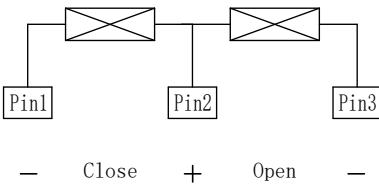
Material compliance: EU RoHS/ELV, China RoHS, REACHHS		
Ambient Temperature	-40°C to +85°C	
Ambient Humidity	5% ~ 85% RH	
Vibration resistance	10 ~ 55Hz, 1.5mm DA	
Shock resistance	Durability	100g
	Malfunction	10g
Packaging type	Dust proof type	

### Wiring Diagrams

Single



Dual



### Model naming rules

SY32J

-80

-12

D

2

XXX

Customer required type

Coil type: 1- means single coil; 2- means dual coil

Coil Power Consumption: D - Standard Type

Coil Specifications (VDC): 05 , 09 , 12 , 24 , 48

Rated current: 80A

Type: SY32J

Customized special suffix is available after being evaluated by Sanyou.

### Examples of Ordering Codes

SY32J-80-12D2

Relay SY32J, Rated current 80A, Coil Specifications 12 VDC, Standard type, Dual coil

### Cautions

1. The original position of latching relay is "closed" when shipping. It is possible that during transit or installation, the relay may change its state to be "open" position, it is recommended to set the relay in to state needed via apply voltage to the coil.
2. In order to let relay operate normally, the voltage which apply to the coil should reach to the rated voltage, the pulse width should be 50ms to 100ms. Do not energize both coil at the same time on Dual coil or energize the coil for longer than minute.
3. Relay without copper wire, the terminal can not be soldered, bend, and rigid fasten both two terminals.
4. Keep away from corrosive gas and other condition which may damage the relay.

### Disclaimer

This product specification is for reference only and may change without prior notice. Customers should select the appropriate product model according to the performance parameter requirements of their specific application areas. The customer will bear the responsibility and loss caused by improper selection. For more technical support, please contact Sanyou Corporation Limited.