

Features:

- 200A switching capacity
- Strong anti-shock capability
- Withstand voltage between contacts and coil: 4 KV
- Single/Dual coils available
- Environmentally friendly products(Accord RoHS)
- Compliance with ANSI C12.1 Clause

(Withstand:12kA effective value/66.7ms;7kA peak value/100ms)

Typical Application:

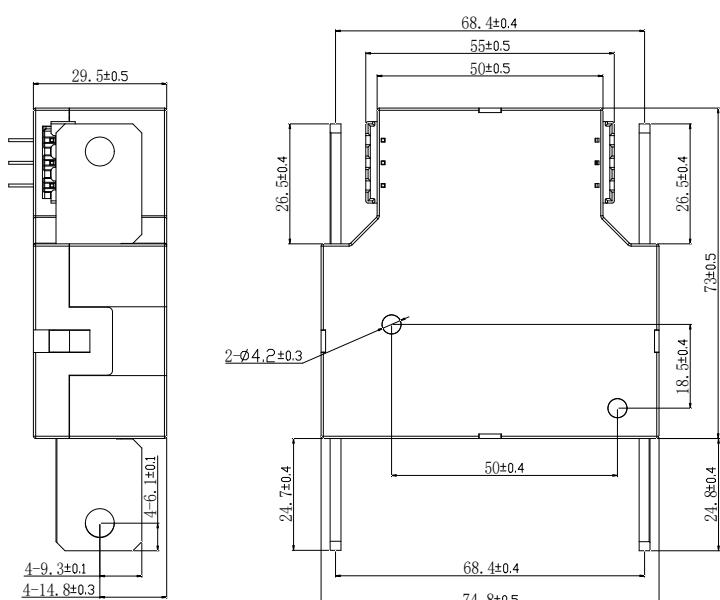
- Smart meter
- Remote electrical control
- Electrical equipment

Contact Data

Contact form	2 Form A or 2 Form B
Rated Load	200A 240VAC
Max.switching voltage	277V
Max.switching current	200A
Max.switching power	55,400VA
Contact Material	Silver alloy
Contact resistance	$\leq 1 \text{ m}\Omega$
Max.Operate/Release time	20ms/20ms
Electrical Endurance	6×10^3 cycles (200A 240VAC Resistive)
Mechanical Endurance	1×10^5 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)	$\geq 8.0\text{mm}$

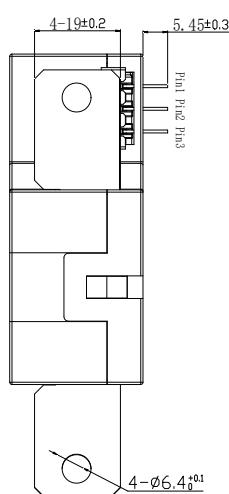
Outline Dimensions (Unit: mm)**Coil Data**

Coil voltage range		9 to 24VDC		
Coil insulation system according UL		Class F		
Coil type, standard type				
Rated Voltage VDC	Operate/Release Voltage VDC	Coil resistance Single/Dual Ω (1±10%)	Rated power Single/Dual W	Pulse Duration ms
9	≤ 7.2	6.8/3.4	12/24	≥ 100
12	≤ 9.6	12/6	12/24	≥ 100
24	≤ 19.2	48/24	12/24	≥ 100

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

Other Data

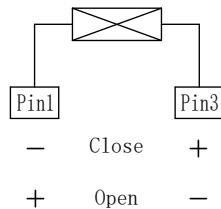
Material compliance: EU RoHS/ELV, China RoHS, REACHHS	
Ambient Temperature	-40°C to +85°C
Ambient Humidity	5% ~ 85% RH
Vibration resistance	10 ~ 55Hz, 1.5mm DA
Shock resistance	Durability 100g Malfunction 10g
Packaging type	Dust proof type



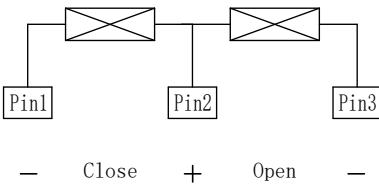
Note: Some product dimensional tolerance is not specified. When <1mm, the tolerance is $\pm 0.2\text{mm}$; when between 1~5mm, the tolerance is $\pm 0.3\text{mm}$; when >5mm, the tolerance is $\pm 0.4\text{mm}$.

Wiring Diagrams

Single



Dual



Model naming rules

SY32F -200 -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): 09 , 12 , 24

Rated current: 200A

Type: SY32F

Customized special suffix is available after being evaluated by Sanyou.

Examples of Ordering Codes

SY32F-200-12D2

Relay SY32F, Rated current 200A, 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.