

Features:

- 90A switching capacity
- Low power consumption
- Strong anti-shock capability
- Withstand voltage between contacts and coil: 4 KV
- Single/Dual coils available
- Environmentally friendly products(Accord RoHS)
- Compliance with IEC 62052-31 Clause UC 2
- Dimensions: 98.4mm×40.3mm×34.8 mm

Typical Application:

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

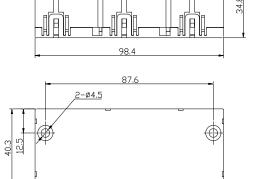
Approvals

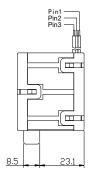
TUV (File No.) : CH 50509502 0001

Contact Data	
Contact form	3 Form A or 3 Form B
Rated Load	90A 250VAC
Max.switching voltage	277V
Max.switching current	90A
Max.switching power	24,930VA
Contact Material	Silver alloy
Contact resistance	≤1 mΩ
Max.Operate/Release time	30ms/30ms
	1x10 ⁴ cycles
Electrical Endurance	(90A 250VAC Resistive electrical 5000 cycles+
	Capacitive 5000 cycles PF=0.5)
Mechanical Endurance	1x10 ⁵ cycles

Insulation Dat	ta	
Insulation Resistance	9	≥1,000MΩ (500VDC)
Dielectric Strength	Contact-Contact	AC2,000V; 50/60Hz 1min
Dielectric Strength	Contact-Coil	AC4,000V; 50/60Hz 1min
Contact-Coil (Creep	page distance)	≥8.0mm

Outline Dimensions (Unit: mm)









Coil Da	ata			
Coil volta	ge range	5 to	48VDC	
Coil insul	ation system accord	ing UL Clas	s F	
Coil type,	standard type			
Rated	Operate/Releas	Coil resistance	Rated power	Pulse
Voltage	Voltage	Single/Dual	Single/Dual	Duration
VDC	VDC	Ω (1±10%)	W	ms
5	≤3.5	8.3/4.2	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.

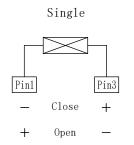
Other Data		
Material compliance	e: EU RoHS/ELV, Chin	a RoHS, REACHHS
Ambient Temperatu	re	-40°C to +85°C
Ambient Humidity		5% ~ 85% RH
Vibration resistance		10 ~ 55Hz, 1.5mm DA
Shock resistance	Durability	100g
SHOCK resistance	Malfunction	10g
Packaging type		Dust proof type

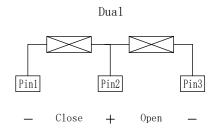
Note: Some product dimensional tolerance is not specified. When < 1mm, the tolerance is ± 0.2 mm; when between 1~5mm, the tolerance is ± 0.4 mm.



Magnetic Latching Relay

Wiring Diagrams





Model na	ming r	ules				
WJ33F	-90	-12	D	2	XXX	

Customized special suffix is available after being evaluated by Sanyou.

Examples of Ordering Codes

WJ33F-90-12D2

Relay WJ33F, Rated current 90 A, Coil Specifications12 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.