

◊ 120A switching capability

WJ33G Series Magnetic Latching Relay

- \diamond Low power consumption, pulse driven operation
- Strong resistance ability to shock and vibration, high reliability
- Dielectric strength 4kv(coil to contacts)
- ◊ Long service life
- \diamond RoHS compliant
- $\diamond\,$ Tested and approved according to UC3 for IEC62055-31
- \diamond Dimensions: 132mm \times 52mm \times 30mm

Contact Capacity

三友繼電器

7 WJ330

Туре	WJ33G
Rated load	120A 250VAC
Max.switching current	120A
Max.switching voltage	250VAC
Max.switching power	30,000VA

General Specification

Contact material	Silver alloy			
Contact resistance	1mΩ Max.			
Operate time	30ms. Max.			
Release time	30ms. Max.			
Insulation resistance(initial)	1,000MΩ Min. (DC500V)			
Dielectric strength	Contact - contact: AC2, 000V; 50/60Hz 1min			
	Contact - coil:AC4, 000V; 50/60Hz 1min			
Creepage and dearance distance (coil contact)	8mm			
Vibration resistance	10~55Hz, 1.5mm DA			
	Durability	100G min		
Shock resistance	Malfunction	10G min		
Expected life	Mechanical life(1800 cycles/Hour)	100,000 cycles		
	Electrical life(120 cycles/Hour)	10,000 cycles		
Ambient temperature	-40°C~+85°C			
Humidity	5°C~+85%RH			

Coil Data(at 20°C)

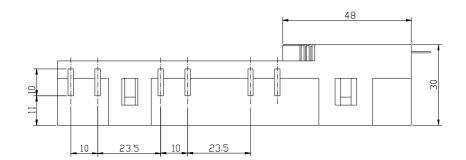
Nominal Voltage	Coil Resistance ±10% (Ω)			Min.Set/Reset Voltage(Max)	Pulse Duration	Coil Power
(VDC)	Single coil	Dua	l coil	(VDC)	(ms)	
5	5	2.5	2.5			
6	7.2	3.6	3.6			
9	16.2	8.1	8.1	70%	100min	Single/Dual
12	28.8	14.4	14.4	nominal voltage	10011111	5W/10W
24	115.2	57.6	57.6			
48	460.8	230.4	230.4			

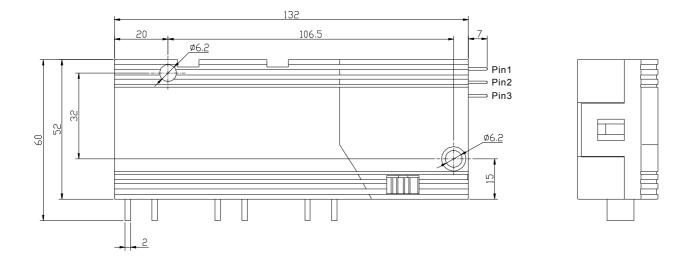
standard type

Ordering Information

WJ33G	120A	12	D	2	XXX	
						Customer special code.
						Coil sort: 1-Single coil, 2-Dual coil.
						Coil type:D-standard type.
						Rated coil voltage(VDC):05,06, 09, 12, 24, 48
						Switching Capacity: 120A.
						Type: WJ33G, Contact Form: 3 Pole

Outline Demension(Unit: mm)





Remark: Unless otherwise specified, <1mm: ±0.2mm; 1-5mm: ±0.3mm; >5mm: ±0.4mm.

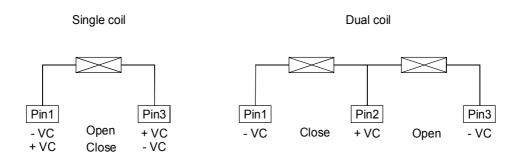
Typical Application

♦ Energy meter used in smart grid

Remote control

Combination switch

Wiring Diagram



Precautions :

- 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 1 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.