



**Feature**

- High contact load
- Low consumption, Pulse driven operation
- Strong resistance ability to shock and vibration, High reliability
- Long service life
- Optionally single coil, as well as double coil
- Various safety certificate approval

**Safety Certificate**

UL File No.: E318915  
CQC File No.: CQC08001022572

**Contact Capacity**

Type number	WJ31B	WJ31B
Nominal capacity(Resistive load)	60A 250VAC	80A 250VAC
Max. switching current	60A	80A
Max. switching voltage	250VAC	250VAC
Max. switching power	15,000VA	20,000VA

**General Data**

Contact Material	Silver alloy	
Contact resistance	2mΩ Max.	
Operating Time	20ms. Max.	
Releasing Time	20ms. Max.	
Insulation resistance	1,000MΩ Min. (DC500V)	
Dielectric Strength	Contact - contact:	AC1,500V, 50/60Hz 1min.
	Contact-coil:	AC4,000V, 50/60Hz 1min.
Resistance to vibration	Durability	10~55Hz, Double amplitude of 0.5 mm
	Malfunction	10~55Hz, Double amplitude of 0.5 mm
Resistance to shock	Durability	10g min.
	Malfunction	100g min.
Service Life	Mechanical life	100,000 ops
	Electrical life	10,000 ops
Ambient temperature	-40°C ~ +70°C	
Weight		

**Coil Data (at 20°C)**

Nominal voltage (VDC)	Nominal current ±10% (mA)		Resistance ±10% (Ω)			Set voltage (Max.)	Reset voltage (Max.)	Pulse duration (ms)	Rated power
	Single coil	Dual coil	Single coil	Dual coil					
5	200	400	25	12.5	12.5	80 % of nominal voltage	80% of nominal voltage	100 Min.	Single/Dual 1W/2W
6	167	334	36	18	18				
9	111	222	81	40.5	40.5				
12	83	167	144	72	72				
24	42	83	576	288	288				
48	21	42	2304	1152	1152				

**WJ31B**

**Ordering information**

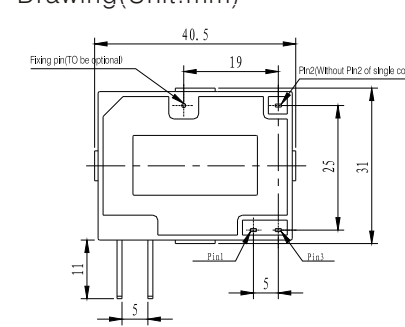
**Identification Code**

WJ31B-60A -12V	Coil voltage(VDC): 05, 06, 09, 12, 24, 48
	Nominal current: 60A, 80A
	Type: WJ31B, Contact arrangement: 1Pole

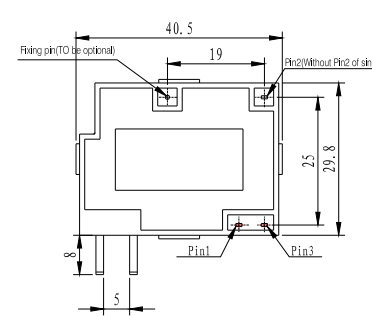
**Safety certificate**

Certificate Category	UL	CQC
File No.	E318915	CQC08001022572

**Drawing (Unit: mm)**

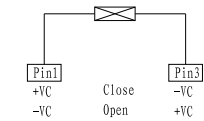


Mounting dimension(60A)

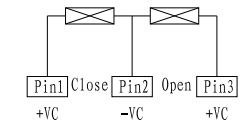


Mounting dimension(80A)

Unless otherwise specified:  
If dimension < 1mm: Tolerance: ±0.2mm  
If dimension on 1~5mm: Tolerance: ±0.3mm  
If dimension > 5mm: Tolerance: ±0.5mm  
Note: Tolerance of mounting holes: ±0.4mm



Wiring Diagram (Single coil)



Wiring Diagram (Dual coil)

Accessories upon request

**Typical Application**

- Energy meter used in smart grid
- remote control
- Combination switch
- electrical power