

## Features

- 60A switching capability
- Single coil and double coil are all available
- Can customize the External attachments like manganese-copper shunt, mutual inductor according to the customers' requirements.
- Breakdown voltage (between contact and coil) : 4KV
- Meet the standard of IEC62055-31:2005 and UC1
- Environmental friendly product (RoHS compliant)
- Outline Dimensions: (38.0×30.0×16.5) mm
- Main application: smart meter、compound switch



## CHARACTERISTICS

Specifications	Item		
Contact Data	Contact arrangement		1A、1B
	Contact resistance(initial)		2mΩ(6VDC 1A)
	Contact material		AgSnO <sub>2</sub>
Rated value	Rated load(Resistance load)		60A 250VAC
	Max.switching voltage		277VAC
	Max.switching current		60A
	Max.switching capacity		15000VA
	Min.allowing load		/
Electrical performance	Insulation resistance(initial)		1000MΩ(500VDC)
	Dielectric strength (initial)	Between open contacts	2000VAC,1min
		Between coil&contacts	4000VAC,1min
	Impact resistance voltage		Between the coil and contact 12KV(1.2×50μs)
	Operate time		≤20ms
Release time		≤20ms	
Mechanical performance	Shock resistance	Functional	98m/s <sup>2</sup> (10g)
		Destructive	980m/s <sup>2</sup> (100g)
Vibration resistance		10Hz~55Hz 1.5mm DA	
Endurance	Mechanical		1×10 <sup>5</sup> ops
	Electrical		60A 250VAC 1×10 <sup>4</sup> ops (ON/OFF=1s/9s)
Operate condition	Ambient temperature		-40℃~85℃
	Humidity		5% to 85%
Termination			Plug-in needle type+Screw type(XB)
Unit weight			Approx.50g(Without attachment)
Construction			Flux proofed

## ■ COIL DATA(23℃)

### ■ Single coil latching

Nominal Voltage	Pick-up Voltage VDC	Drop-out Voltage VDC	Rated Current (±10%)	Coil Resistance (±10%)	Nominal Power	Max Voltage
DC 5V	≤3.75	≤3.75	312.5mA	16Ω	1.5W	150%Nominal Voltage
DC 6V	≤4.50	≤4.50	250mA	24Ω		
DC 9V	≤6.75	≤6.75	166.7mA	54Ω		
DC 12V	≤9.00	≤9.00	125mA	96Ω		
DC 24V	≤18.00	≤18.00	62.5mA	384Ω		

### ■ Double coils latching

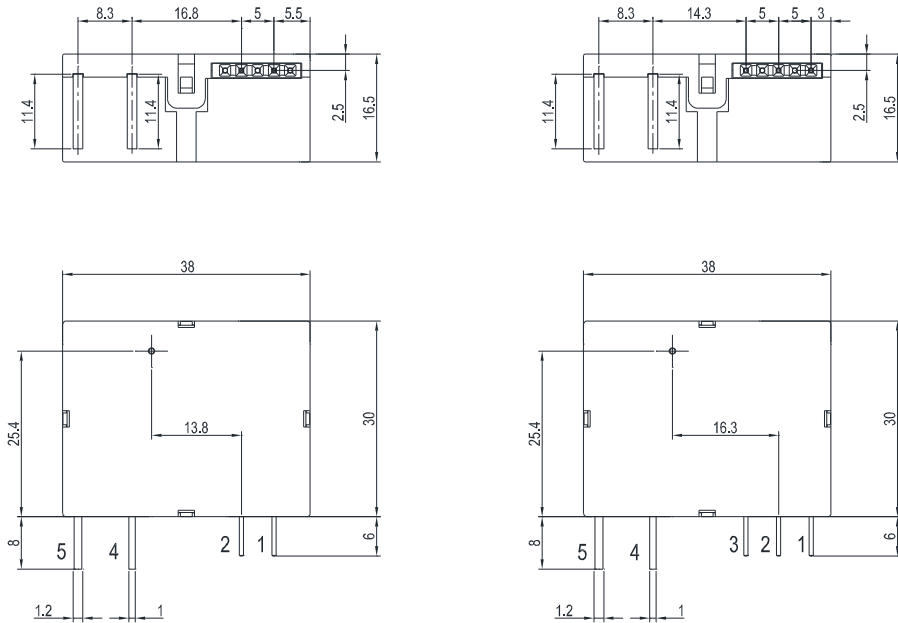
Nominal Voltage	Pick-up Voltage VDC	Drop-out Voltage VDC	Rated Current (±10%)	Coil Resistance (±10%)	Nominal Power	Max Voltage
DC 5V	≤3.75	≤3.75	625/625mA	8/8Ω	3W	150%Nominal Voltage
DC 6V	≤4.50	≤4.50	500/500mA	12/12Ω		
DC 9V	≤6.75	≤6.75	333/333mA	27/27Ω		
DC 12V	≤9.00	≤9.00	250/250mA	48/48Ω		
DC 24V	≤18.00	≤18.00	125/125mA	192/192Ω		

## ■ ORDERING INFORMATION

	W23L	-1B	T	-L1	R	-XXX	DC6V
① Type							
② Contact arrangement: 1A=1 open contacts 1B=1 close contacts							
③ Contact material: T=AgSnO <sub>2</sub>							
④ Coil type: L1=coil latching、L2=coils latching							
⑤ Operation polarity: Nil=standard polarity R=reversed polarity							
⑥ Customer special code: numbers or letters denote customer's requirements							
⑦ Coil specification: DC5/6/9/12/24V							

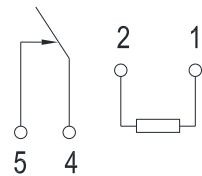
1A/1B

Outline Dimensions



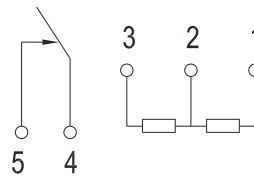
Wiring Diagram

Single coil latching



1(+)-2(-) 4-5 Reset  
2(+)-1(-) 4-5 Set

Double coils latching



1(+)-2(-) 4-5 Reset  
3(+)-2(-) 4-5 Set

Notes: (1) In case of no tolerance shown in outline dimension: outline dimension  $\leq 1\text{mm}$ , tolerance should be  $\pm 0.2\text{mm}$ ; outline dimension  $> 1\text{mm}$  and  $< 5\text{mm}$ , tolerance should be  $\pm 0.3\text{mm}$ ; outline dimension  $\geq 5\text{mm}$ , tolerance should be  $\pm 0.5\text{mm}$ .

(2) The tolerance without indicating for PCB layout is always  $\pm 0.1\text{mm}$ .

NOTICE

- ① With the consideration of shock risen from transit and relay mounting, relay's initial state might be changed, please impose pulse voltage to reset the relay before using (rated coil voltage, impulse width  $\geq 5$  times operation time).
- ② The specification is for reference only, specifications subject to change without notice.