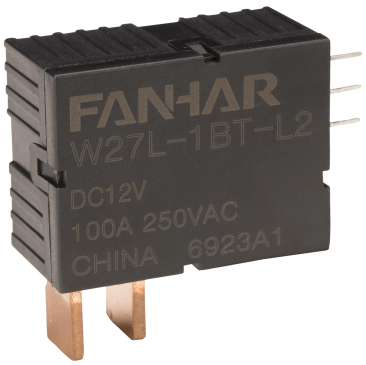
W27L

Latching Relay

Features

- 120A switching capability
- Single coil and double coils are all available
- Double contacts structure
- Can be customized the manganese copper shunt, transformer and other external accessories according to customer demand.
- Breakdown voltage (between contact and coil)：4KV
- Meet the standard of IEC62055-31:2005　UC3
- Environment-friendly product（RoHS compliant）
- Outline Dimensions：（42.0×32.0×20.8）mm
- Main application：Smart meter



■ CHARACTERISTICS

Specifications	Item		
Contact Data	Contact arrangement		1A、1B
	Contact resistance(initial)		≤1mΩ(6VDC 1A)
	Contact material		$AgSnO_2$
Rated value	Rated load(Resistance load)		100A　250VAC(Standard) 120A　250VAC
	Max.switching voltage		277VAC
	Max.switching current		120A
	Max.switching capacity		30000VA
	Min.allowing load		/
Electrical performance	Insulation resistance(initial)		1000MΩ(500VDC)
	Dielectric strength (initial)	Between open contacts	2000VAC,1min
		Between coil&contacts	4000VAC,1min
	Operate time		≤30ms
	Release time		≤30ms
Mechanical performance	Shock resistance	Functional	$98m/s^2$(10g)
		Destructive	$980m/s^2$(100g)
	Vibration resistance		10Hz～55Hz 1.5mm DA
Endurance	Mechanical		2×10^5ops
	Electrical		120A　250VAC　6×10^3ops　(ON/OFF=1s/9s) 100A　250VAC　1×10^4ops　(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.70g(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 6V	≤4.50	≤4.50	500mA	12Ω	3W	DC 9V
DC 9V	≤6.75	≤6.75	333.3mA	27Ω		DC 13.5V
DC 12V	≤9.00	≤9.00	250mA	48Ω		DC 18V
DC 24V	≤18.00	≤18.00	125mA	192Ω		DC 36V

■Double Coils latching`

Nominal Voltage	Pick-up Voltage VDC	Drop-out Voltage VDC	Rated Current (±10%)	Coil Resistance (±10%)	Nominal Power	Max Voltage
DC 6V	≤4.50	≤4.50	1000/1000mA	6/6Ω	6W	DC 9V
DC 9V	≤6.75	≤6.75	666.7/666.7mA	13.5/13.5Ω		DC 13.5V
DC 12V	≤9.00	≤9.00	500/500mA	24/24Ω		DC 18V
DC 24V	≤18.00	≤18.00	250/250mA	96/96Ω		DC 36V

■ ORDERING INFORMATION

W27L -1B T -L1 R -XXX DC6V

① Type

② Contact arrangement：1A=1 open contacts
1B=1 close contacts

③ Contact material：T=$AgSnO_2$

④ Coil type：L1=coil latching、L2=coils latching

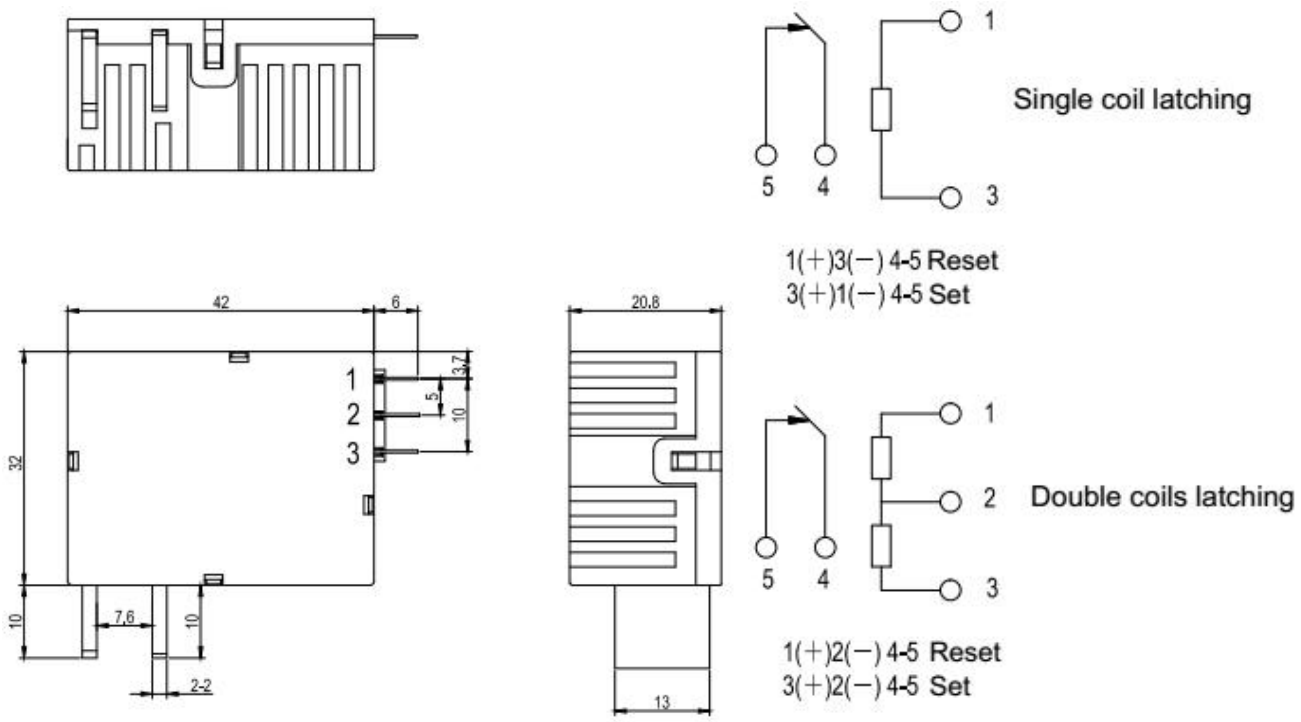
⑤ Operation polarity：Nil=standard polarity R=reversed polarity

⑥ Customer special code：numbers or letters denote customer's requirements

⑦ Coil specification：DC5/6/9/12/24V

■ OUTLINE DIMENSIONS,WIRING DIAGRAM AND PC BOARD LAYOUT(Unit：mm)

1A/1B Outline Dimensions



Wiring Diagram

Remark:(1)In case of no tolerance shown in outline dimension:outline dimension≤1mm,tolerance should be±0.2mm;outline dimension >1mm and <5mm,tolerance should be ±0.3mm;outline dimension≥5mm,tolerance should be ±0.5mm.

(2) The tolerance without indicating for PCB layout is always ±0.1mm.

■ 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≥5 times operation time.

② In order to maintain the initial performance parameters of the relay, please be careful not to drop the product;

③ In order to maintain the "set" or "reset" status, energized voltage to coil should reach the rated voltage, impulse width should be 5 times more than “set” or “reset” time. Do not energize the voltage to "set" coil and "reset" coil simultaneously.

④ The specification is for reference only.Specifications subject to change without notice.