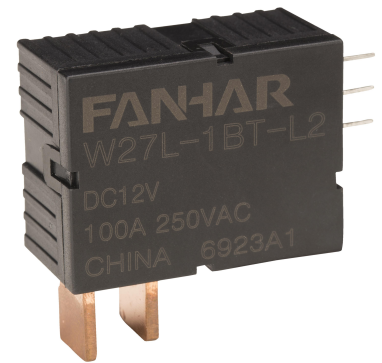


Features

- 120A switching capability
- Single coil and double coil are all available
- Double contact structure
- Can customize the External attachments like manganese-copper
- Shunt, mutual inductor according to the customers' requirements.
- Breakdown voltage: 4KV (between contact and coil)
- Meet the standard of IEC62055-31:2005 and UC3
- Environmental 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 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 ⁵ ops
	Electrical	120A 250VAC	6×10 ³ ops (ON/OFF=1s/9s)
100A 250VAC		1×10 ⁴ 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.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	375mA	16Ω	2.25W	150%Nominal Voltage
DC 9V	≤6.75	≤6.75	250mA	36Ω		
DC 12V	≤9.00	≤9.00	187.5mA	64Ω		
DC 24V	≤18.00	≤18.00	93.8mA	256Ω		

■ 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	750/750mA	8/8Ω	4.5W	150%Nominal Voltage
DC 9V	≤6.75	≤6.75	500/500mA	18/18Ω		
DC 12V	≤9.00	≤9.00	375/375mA	32/32Ω		
DC 24V	≤18.00	≤18.00	188/188mA	128/128Ω		

■ 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=AgSnO₂

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

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

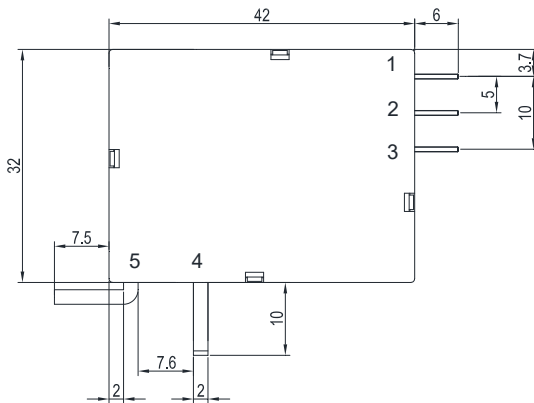
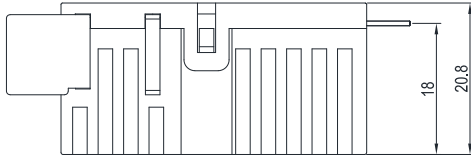
⑥ Customer special code: numbers or letters denote customer's requirements

⑦ Coil specification: DC5/6/9/12/24V

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

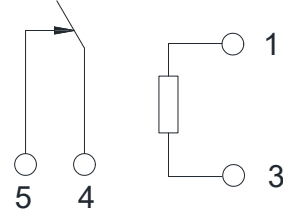
1A/1B

Outline Dimensions



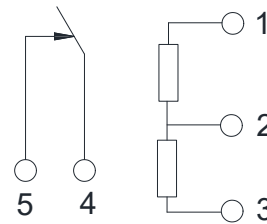
Wiring Diagram

Single coil latching



1 (+) 3 (-) 4-5 Reset
3 (+) 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 ≥ 5 times operation time).

② The specification is for reference only, specifications subject to change without notice.