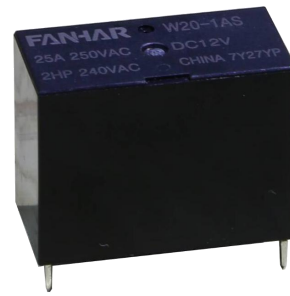


Features

- 25A switching capability
- Contact arrangement:1A
- Provide the contact gap of the product is ≥ 1.5 mm,it meets the standard of VDE0126 from Europe
- Plastic sealed type and Flux proofed type
- UL insulation system:Class F
- Environment-friendly product(RoHS compliant)
- Outline Dimensions: (30.1 \times 15.7 \times 24.1) mm
- Main application: Home appliance、New energy and PV industry



CHARACTERISTICS

Specifications	Item		
Contact Data	Contact arrangement		1A
	Contact resistance(initial)		$\leq 100\text{m}\Omega(6\text{VDC } 1\text{A})$
	Contact material		AgSnO ₂
Rated value	Rated load(Resistance load)		25A 250VAC/30VDC 20A 250VAC/30VDC
	Max.switching voltage		277VAC/30VDC
	Max.switching current		32A
	Max.switching capacity		6250VA/750W
	Min.allowing load		5VDC 100mA
Electrical performance	Insulation resistance(initial)		1000M $\Omega(500\text{VDC})$
	Dielectric strength (initial)	Between open contacts	1000VAC,1min
		Between coil&contacts	4500VAC,1min
	Operate time		$\leq 20\text{ms}$
	Release time		$\leq 10\text{ms}$
Mechanical performance	Shock resistance	Functional	98m/s ² (10g)
		Destructive	980m/s ² (100g)
	Vibration resistance		10Hz~55Hz 1.5mm DA
Endurance	Mechanical		2 $\times 10^6$ ops
	Electrical		25 A250VAC/30VDC 5 $\times 10^4$ ops(ON/OFF=1s/9s) 2H 250VAC 5 $\times 10^4$ ops(ON/OFF=1s/9s)
Operate condition	Ambient temperature		-40 $^{\circ}\text{C}$ ~85 $^{\circ}\text{C}$
	Humidity		5% to 90%
Termination			PCB
Unit weight			Approx.23g
Construction			Plastic sealed,Flux proofed

COIL DATA(23°C)

Nominal Voltage	Pick-up Voltage VDC	Drop-out Voltage VDC	Rated Current (±10%)	Coil Resistance (±10%)	Nominal Power	Max Voltage
DC 5V	≤3.75	≥0.25	180mA	27.8Ω	900mW	DC 6.5V
DC 6V	≤4.50	≥0.30	150mA	40Ω		DC 7.8V
DC 9V	≤6.75	≥0.45	100mA	90Ω		DC 11.7V
DC 12V	≤9.00	≥0.60	75mA	160Ω		DC 15.6V
DC 15V	≤11.25	≥0.75	60mA	250Ω		DC 19.5V
DC 18V	≤13.50	≥0.90	50mA	360Ω		DC 23.4V
DC 24V	≤18.00	≥1.20	37.5mA	640Ω		DC 31.2V

ORDERING INFORMATION

W20 -1A S T -XXX DC12V

① Type

② Contact arrangement: 1A=1 open contacts

③ Construction(1): Nil=Flux proofed, S=Plastic sealed

④ Contact material: T=AgSnO₂

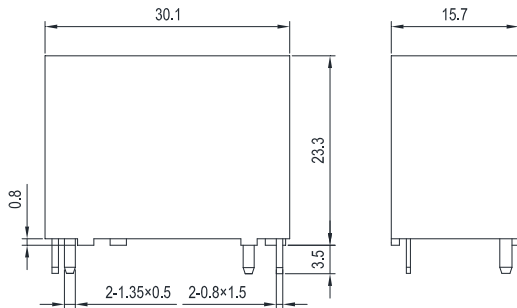
⑤ Customer special code: numbers or letters denote customer's requirements

⑥ Coil specification:DC5/6/9/12/15/18/24V

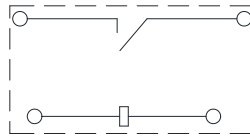
- (1) When used in clean environment(excluding H₂S、SO₂、NO₂、dust and other pollutants), it is recommended to choose the Flux proofed type;When used in unclean environment(contain H₂S、SO₂、NO₂、dust and other pollutants), it is recommended to choose the Plastic sealed.

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

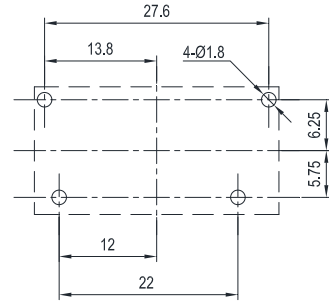
1A Outline Dimensions



Wiring Diagram (Bottom view)



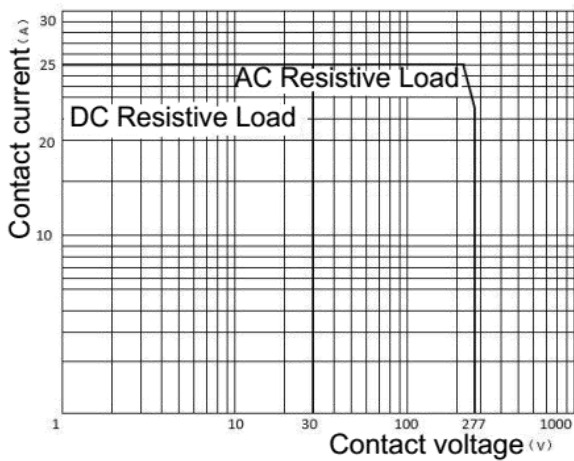
PCB Layout (Bottom view)



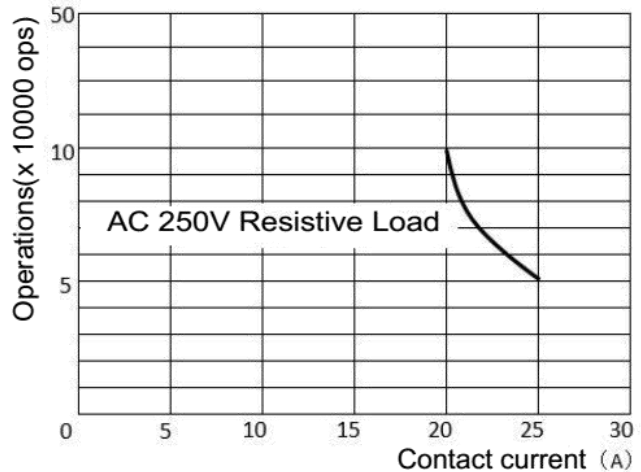
Remark: (1) In case of no tolerance shown in outline dimension: outline dimension ≤ 1 mm, tolerance should be ± 0.2 mm; outline dimension > 1 mm and < 5 mm, tolerance should be ± 0.3 mm; outline dimension ≥ 5 mm, tolerance should be ± 0.5 mm.
 (2) The tolerance without indicating for PCB layout is always ± 0.1 mm.

PERFORMANCE CURVES

MAXIMUM SWITCHING POWER



ENDURANCE CURVE



NOTICE

- ① In order to maintain the initial performance parameters of the relay, please be careful not to drop the product;
- ② The specification is for reference only. Specifications subject to change without notice.