

**Features**

- 25A switching capability
- Contact arrangement:1A
- Provide the contact gap of the product is $\geq 1.5$  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: (30.1×15.7×24.1) 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 <sub>2</sub>
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 <sup>2</sup> (10g)
		Destructive	980m/s <sup>2</sup> (100g)
	Vibration resistance		10Hz~55Hz 1.5mm DA
Endurance	Mechanical		2×10 <sup>6</sup> ops
	Electrical		25A 250VAC/30VDC 5×10 <sup>4</sup> ops(ON/OFF=1s/9s) 2HP 250VAC 5×10 <sup>4</sup> ops(ON/OFF=1s/9s)
Operate condition	Ambient temperature		-40℃~85℃
	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

**W20TP -1A S T -XXX DC12V**

① Type

② Contact arrangement: 1A=1open contacts

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

④ Contact material: T=AgSnO<sub>2</sub>

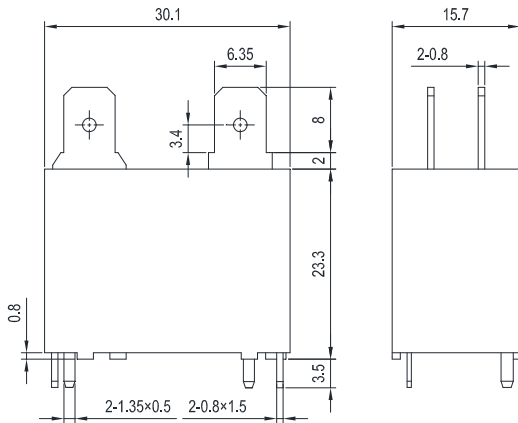
⑤ Customer special code: numbers or letters denote customer's requirements

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

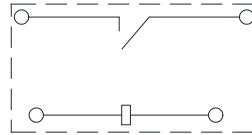
- (1) When used in clean environment(excluding H<sub>2</sub>S、SO<sub>2</sub>、NO<sub>2</sub>、dust and other pollutants), it is recommended to choose the Flux proofed type;When used in unclean environment(contain H<sub>2</sub>S、SO<sub>2</sub>、NO<sub>2</sub>、dust and other pollutants), it is recommended to choose the Plastic sealed.

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

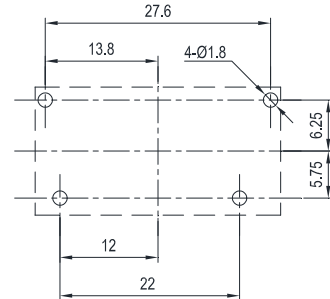
### 1A Outline Dimensions



### Wiring Diagram (Bottom view)



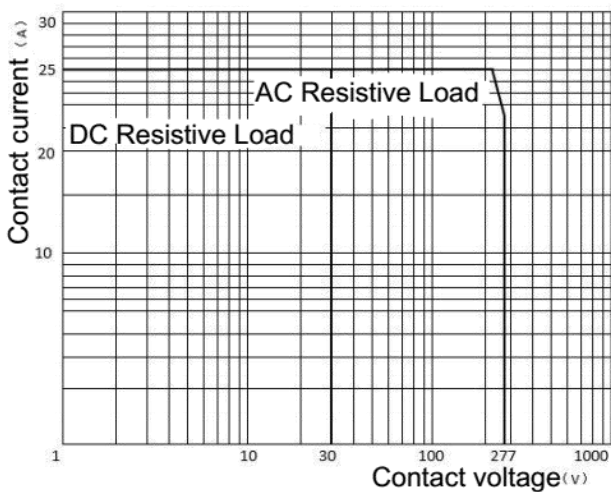
### PCB Layout (Bottom view)



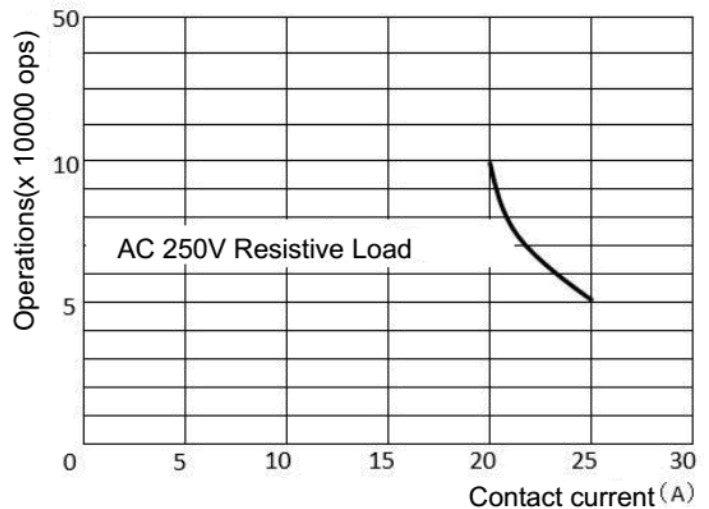
- Remark: (1) In case of no tolerance shown in outline dimension: outline dimension  $\leq 1$  mm, tolerance should be  $\pm 0.2$  mm; outline dimension  $> 1$  mm and  $< 5$  mm, tolerance should be  $\pm 0.3$  mm; outline dimension  $\geq 5$  mm, tolerance should be  $\pm 0.5$  mm.
- (2) The tolerance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