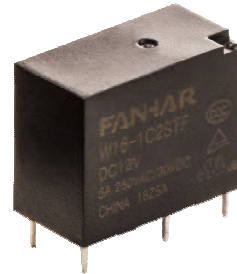


Features

- 10A switching capability
- Contact arrangement: 1A、1C
- We can provide the product with ambient temperature is 105°C
- Can supply the product of highly efficient magnetic circuit for high sensitivity: 200mW
- UL insulation system: Class F
- Environmental friendly product (RoHS compliant)
- Outline Dimensions: (20.5×10.5×15.8) mm
- Main application: Home appliance、electric power meter



CHARACTERISTICS

Specifications	Item		
Contact Data	Contact arrangement		1A、1B、1C
	Contact resistance(initial)		100mΩ(6VDC 1A)
	Contact material		AgNi、AgSnO ₂
Rated value	Rated load(Resistance load)		5A 250VAC/30VDC 10A 250VAC/30VDC
	Max.switching voltage		277VAC/30VDC
	Max.switching current		10A
	Max.switching capacity		2500VA/300W
	Min.allowing load		5VDC 100mA
Electrical performance	Insulation resistance(initial)		1000MΩ(500VDC)
	Dielectric strength (initial)	Between open contacts	1000VAC,1 min
		Between coil&contacts	4000VAC,1 min
	Operate time		≤10ms
	Release time		≤5ms
Mechanical performance	Shock resistance	Functional	98m/s ² (10g)
		Destructive	980m/s ² (100g)
	Vibration resistance		10Hz~55Hz 1.5mm DA
Endurance	Mechanical		5×10 ⁶ ops
	Electrical		5A 250VAC/30VDC 1×10 ⁵ ops (ON/OFF=1s/9s) 10A 250VAC/30VDC 5×10 ⁴ ops (ON/OFF=1s/9s)
Operate condition	Ambient temperature		-40°C~85°C
	Humidity		5% to 90%
Termination			PCB
Unit weight			Approx 6g
Construction			Plastic sealed、Flux proofed

COIL DATA(23°C)

Standard Type

Nominal Voltage	Pick-up Voltage VDC	Drop-out Voltage VDC	Rated Current (±10%)	Coil Resistance (±10%)	Nominal Power	Max Voltage
DC 3V	≤2.25	≥0.15	150mA	20Ω	450mW	130%Nominal Voltage
DC 5V	≤3.75	≥0.25	90mA	55.5Ω		
DC 6V	≤4.50	≥0.30	75mA	80Ω		
DC 9V	≤6.75	≥0.45	50mA	180Ω		
DC 12V	≤9.00	≥0.60	37.5mA	320Ω		
DC 15V	≤11.25	≥0.75	30mA	500Ω		
DC 18V	≤13.50	≥0.90	25mA	720Ω		
DC 24V	≤18.00	≥1.20	18.8mA	1280Ω		
DC 48V	≤36.00	≥2.40	10.4mA	4608Ω	500mW	

Sensitive Type

Nominal Voltage	Pick-up Voltage VDC	Drop-out Voltage VDC	Rated Current (±10%)	Coil Resistance (±10%)	Nominal Power	Max Voltage
DC 3V	≤2.25	≥0.15	66.7mA	45Ω	200mW	130%Nominal Voltage
DC 5V	≤3.75	≥0.25	40mA	125Ω		
DC 6V	≤4.50	≥0.30	33.3mA	180Ω		
DC 9V	≤6.75	≥0.45	22.2mA	405Ω		
DC 12V	≤9.00	≥0.60	16.7mA	720Ω		
DC 15V	≤11.25	≥0.75	13.3mA	1128Ω		
DC 18V	≤13.50	≥0.90	11.1mA	1620Ω		
DC 24V	≤18.00	≥1.20	8.3mA	2880Ω		

ORDERING INFORMATION

W16 -1A 2 S T L E -XXX DC12V

- ① Type
- ② Contact arrangement(1): 1A=1open contacts、1B=1close contacts、1C=1switched contacts
- ③ PCB mounting: 2=type 2
- ④ Construction: Nil=Flux proofed, S=Plastic sealed
- ⑤ Contact material(2): Nil=AgNi、T=AgSnO₂
- ⑥ Coil power: Nil=Standard、L=Sensitive
- ⑦ Load: Nil=Standard load E=High load(10A)
- ⑧ Customer special code: numbers or letters denote customer's requirements
- ⑨ Coil specification: DC3/5/6/9/12/15/18/24/48V

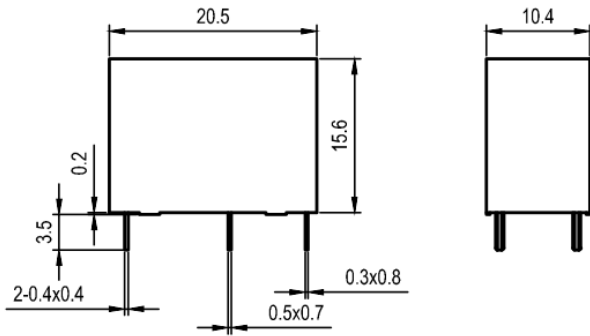
Notes:(1)If need the contact arrangement is 1B,please contact with the salesman to ask for the outline dimensions,wiring diagram and PC board layout.

(2)Due to the high surge current of relay connection,we propose to use AgSnO₂ contacts.

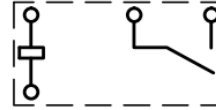
OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT (Unit: mm)

1A2

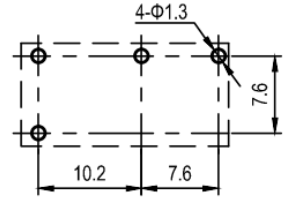
Outline Dimensions



Wiring Diagram
(Bottom view)

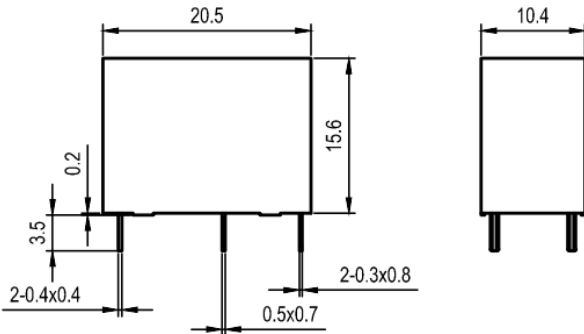


PCB Layout
(Bottom view)

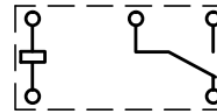


1C2

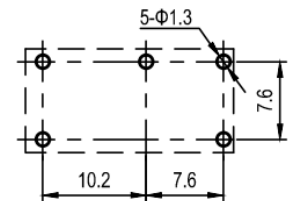
Outline Dimensions



Wiring Diagram
(Bottom view)



PCB Layout
(Bottom view)



Remark: (1) In case of no tolerance shown in outline dimension: outline dimension $\leq 1\text{mm}$, 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 $\pm 0.5\text{mm}$.

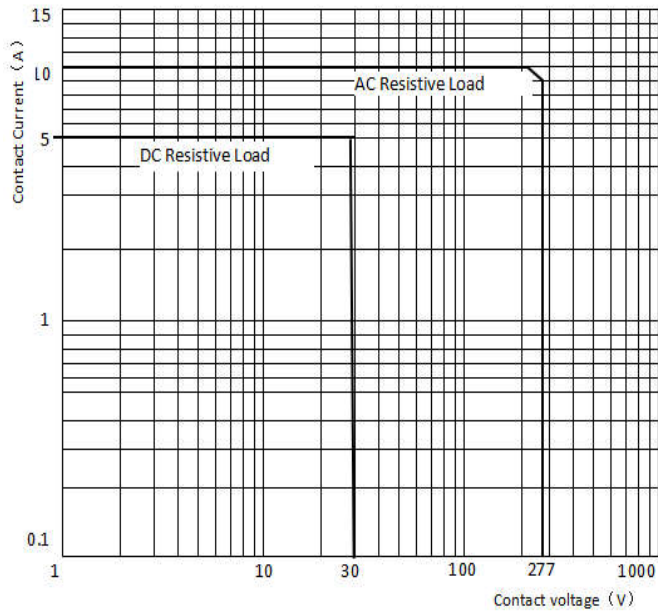
(2) The tolerance without indicating for PCB layout is always $\pm 0.1\text{mm}$.

SAFETY APPROVAL RATINGS

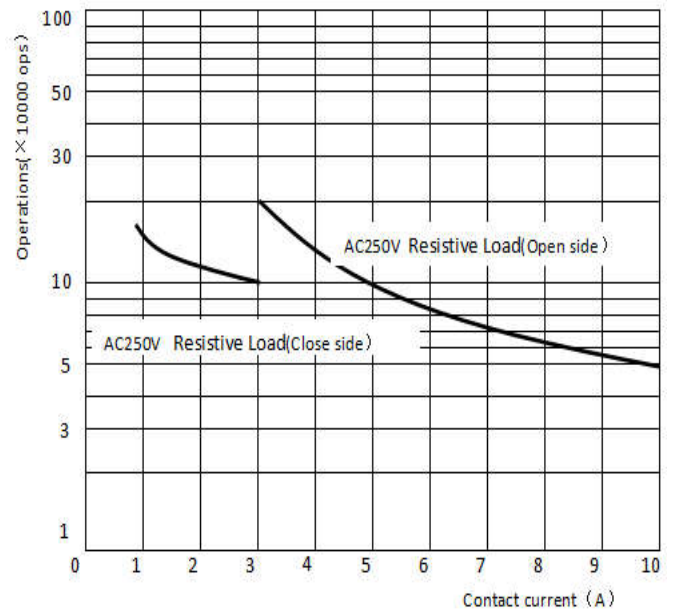
Approval	File No.	Contact arrangement	Contact material	Approved ratings		
UL/C-UL	E475405	1A	AgSnO ₂	10A	250/125VAC	85°C
		(NO)		5A	250VAC	105°C
		1C(NO/NC)		5A/5A	250VAC	85°C
TUV	R50346373	1A(NO)	AgNi, AgSnO ₂	10A	250VAC/30VDC	85°C
		1B(NC)		5A	250VAC/30VDC	85°C
		1C(NO/NC)		5A/3A	250VAC/30VDC	85°C
CQC	CQC16002144114	1A(NO)	AgNi, AgSnO ₂	10A/7A	250VAC/30VDC	85°C
		1B(NC)		5A/3A	250VAC/30VDC	85°C
		1C(NO/NC)		5A/3A	250VAC/30VDC	85°C

■ PERFORMANCE CURVES

MAXIMUM SWITCHING POWER



ENDURANCE CURVE



■ NOTICE

- ① If the relay needs to be cleaned or used in bad environment(e.g:dust or organic gas),we recommend plastic sealed type.
- ② The specification is for reference only,specifications subject to change without notice.