

Features

- 16A con switching capability
- Contact arrangement: 1A
- PCB terminal
- The height of the product is 10.4mm, it is suitable for flat mounting
- We can provide the product, with ambient temperature is 105°C
- UL insulation system: Class F
- Environmental friendly product (RoHS compliant)
- Outline Dimensions: (23.0×16.0×10.4) mm
- Main application: Home appliance



TV-5 C  **US**

CHARACTERISTICS

Specifications	Item		
Contact Data	Contact arrangement		1A
	Contact arrangement		100mΩ(6VDC 1A)
	Contact material		AgSnO ₂
Rated value	Rated load(Resistance load)		16A 250VAC
	Max.switching voltage		277VAC/30VDC
	Max.switching current		16A
	Max.switching capacity		4000VA/480W
	Min.allowing load		5VDC 100mA
Electrical performance	Insulation resistance(initial)		1000MΩ(500VDC)
	Dielectric strength (initial)	Between open contacts	1000VAC, 1min
		Between coil&contacts	2500VAC, 1min
	Impact resistance voltage		Between coil&contacts 10KV(1.2×50μs)
	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		1×10 ⁷ ops
	Electrical		16A 250VAC 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. 10g
Construction			Plastic sealed, Flux proofed

■ COIL DATA(23℃)

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 24V	≤18.00	≥1.20	8.33mA	2880Ω		
DC 48V	≤36.00	≥2.40	4.2mA	11520Ω		

■ ORDERING INFORMATION

W36 -1A S T -XXX DC12V

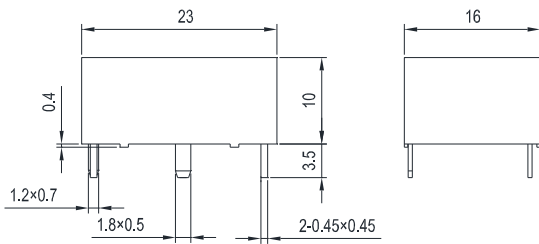
- ① Type
- ② Contact arrangement: 1A=1open contacts
- ③ Construction: Nil=Flux proofed, S=Plastic sealed
- ④ Contact material: T=AgSnO₂
- ⑤ Customer special code: numbers or letters denote customer's requirements
- ⑥ Coil specification: DC3/5/6/9/12/24/48V

■ SAFETY APPROVAL RATINGS

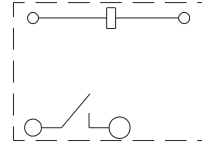
Approval	File No.	Contact arrangement	Contact material	Approved ratings		
UL/C-UL	E475405	1A	AgSnO ₂	16A/10A TV-5	250VAC 250VAC	85℃/105℃ 85℃
TUV	R 50412261	1A	AgSnO ₂	16A/10A	250VAC	85℃/105℃
CQC	CQC18002198137	1A	AgSnO ₂	16A/10A	250VAC	105℃

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

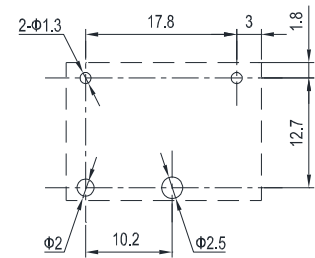
1A Outline Dimensions



Wiring Diagram (Bottom view)



PCB Layout (Bottom view)

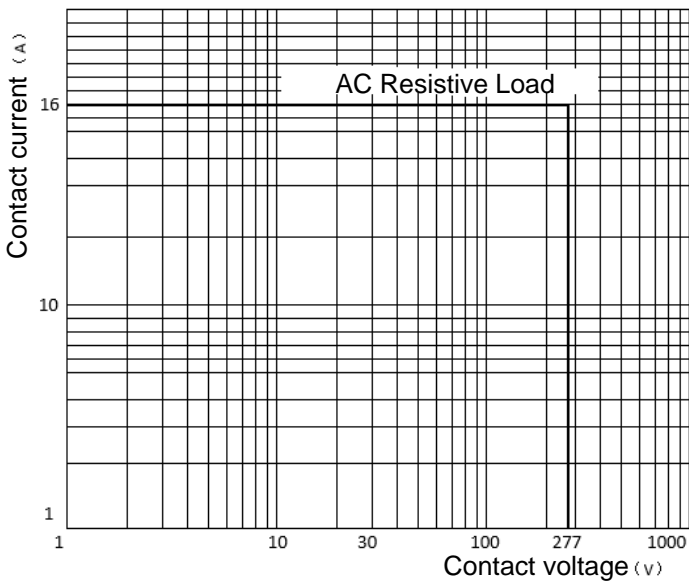


Remark: (1) In case of no tolerance shown in outline dimension: outline dimension $\leq 1\text{mm}$, tolerance should be $\pm 0.2\text{mm}$; outline dimension $> 1\text{mm}$ and $< 5\text{mm}$, tolerance should be $\pm 0.3\text{mm}$; outline dimension $\geq 5\text{mm}$, tolerance should be $\pm 0.5\text{mm}$.

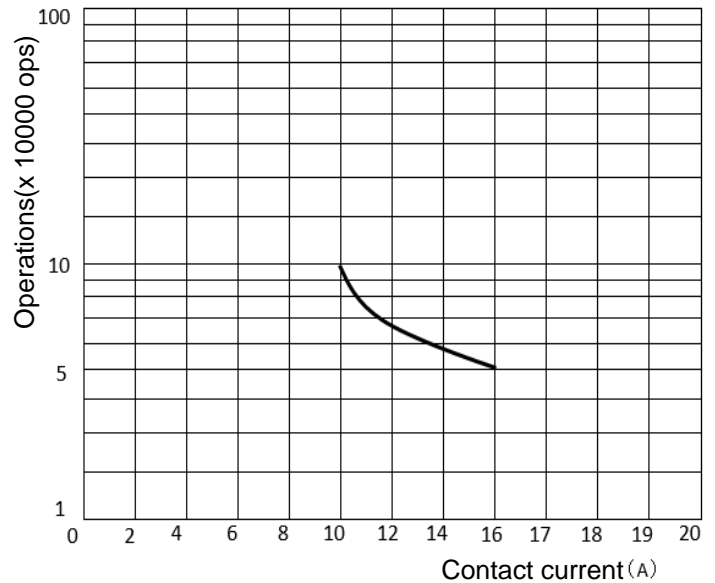
(2) The tolerance without indicating for PCB layout is always $\pm 0.1\text{mm}$.

■ 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.