

Features

- 2 sets of 12A switching capability
- Dielectric strength 2.5KV (between contact groups and contacts)
- Dielectric strength 5KV (between coil and contacts)
- Creepage distance and air distance are greater than 15mm
- We can provide the product with ambient temperature is 105°C
- UL insulation system: Class F
- Environmental friendly product (RoHS compliant)
- Outline Dimensions: (28.8×12.5×15.7) mm
- Main application: Home appliance、Industrial Control



CHARACTERISTICS

Specifications	Item		
Contact Data	Contact arrangement		2A、2B、2C
	Contact resistance(initial)		100mΩ(6VDC 1A)
	Contact material		AgNi、AgSnO ₂
Rated value	Rated load(Resistance load)		8A 250VAC/30VDC
	Max.switching voltage		277VAC/30VDC
	Max.switching current		12A
	Max.switching capacity		2000VA/240W
	Min.allowing load		5VDC 100mA
Electrical performance	Insulation resistance(initial)		1000MΩ(500VDC)
	Dielectric strength (initial)	Between open contacts	1000VAC,1 min
		Between contact sets	2500VAC,1 min
		Between coil&contacts	5000VAC,1 min
	Operate time		≤15ms
	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		8A 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.12g
Unit weight			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 3V	≤2.25	≥0.15	133.3mA	22.5Ω	400mW	130%Nominal Voltage
DC 5V	≤3.75	≥0.25	80mA	62.6Ω		
DC 6V	≤4.50	≥0.30	66.7mA	90Ω		
DC 9V	≤6.75	≥0.45	44.4mA	202.5Ω		
DC 12V	≤9.00	≥0.60	33.3mA	360Ω		
DC 15V	≤11.25	≥0.75	26.7mA	562.5Ω		
DC 18V	≤13.50	≥0.90	22.2mA	810Ω		
DC 24V	≤18.00	≥1.20	16.7mA	1440Ω		
DC 48V	≤36.00	≥2.40	8.3mA	5760Ω		

ORDERING INFORMATION

W15 -2A S T -XXX DC12V

① Type

② Contact arrangement: 2A=2open contacts、
2B=2close contacts、2C=2 switched contacts

③ Construction: Nil=Flux proofed, S=Plastic sealed

④ Contact material(2): Nil=AgNi、T=AgSnO₂

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

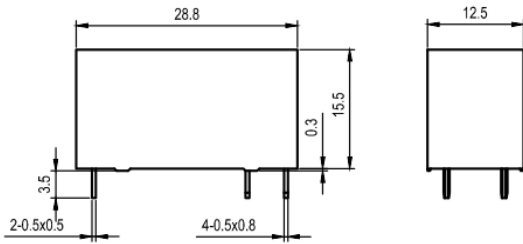
⑥ Coil specification: DC3/5/6/9/12/15/18/24/48/60/110V

SAFETY APPROVAL RATINGS

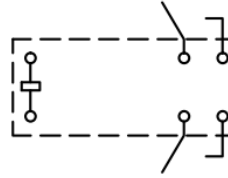
Approval	File No.	Contact arrangement	Contact material	Approved ratings		
UL/C-UL	E475405	2A、2C(NO)	AgNi、AgSnO ₂	8A	250VAC/30VDC	85°C
		2B、2C(NC)		1/4HP	250VAC	85°C
TUV	R 50332875		2A(NO)	AgNi、AgSnO ₂	3A	250VAC (PF=0.6)
		10A			125VAC	85°C
		8A			250VAC/30VDC	85°C
		2B(NC)	8A		250VAC/30VDC	85°C
		2C(CO)	5A/5A		250VAC/30VDC	85°C
CQC	CQC15002137649	2A(NO) 2B(NC) 2C(CO)	AgNi、AgSnO ₂	8A	250VAC/30VDC	85°C

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

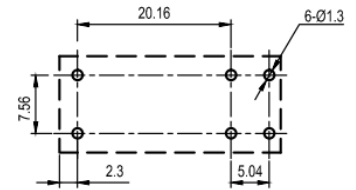
2A Outline Dimensions



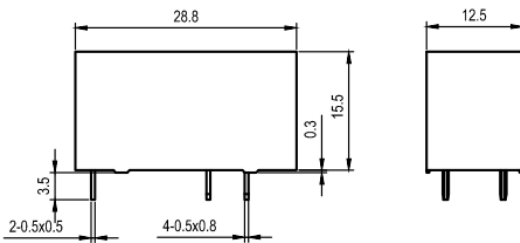
Wiring Diagram (Bottom view)



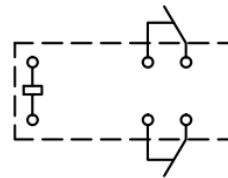
PCB Layout (Bottom view)



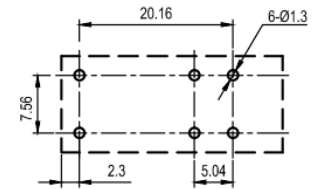
2B Outline Dimensions



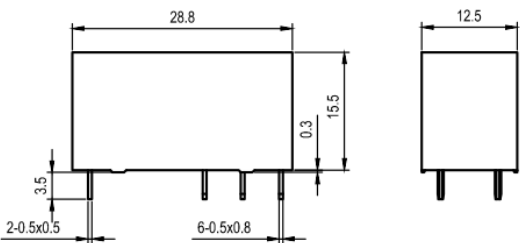
Wiring Diagram (Bottom view)



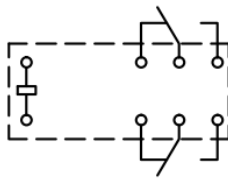
PCB Layout (Bottom view)



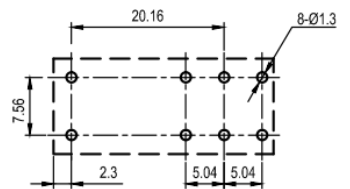
2C Outline Dimensions



Wiring Diagram (Bottom view)



PCB Layout (Bottom view)

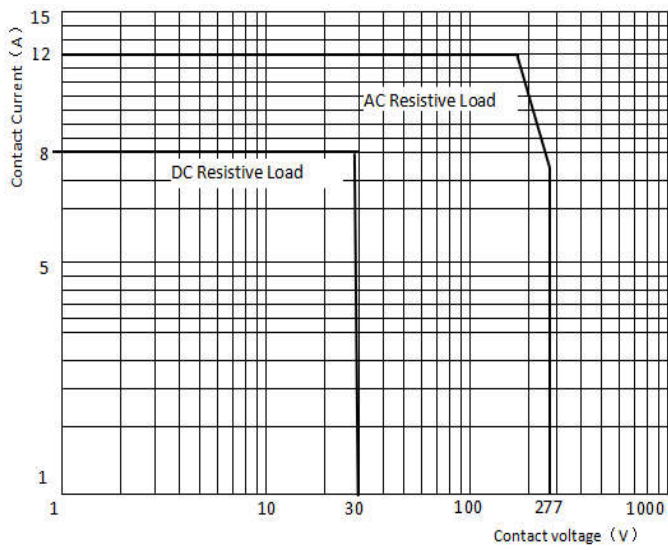


Remark: (1) In case of no tolerance shown in outline dimension: outline dimension ≤ 1 mm, tolerance should be ± 0.2 mm; outline dimension > 1 mm and < 5 mm, tolerance should be ± 0.3 mm; outline dimension ≥ 5 mm, tolerance should be ± 0.5 mm.

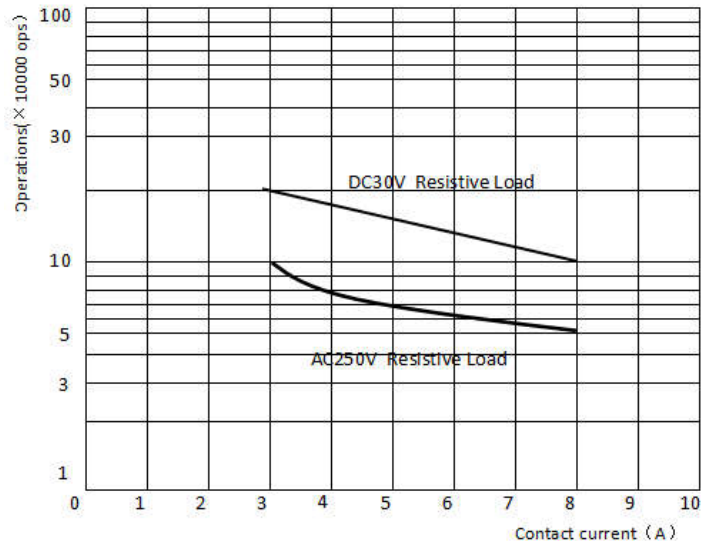
(2) The tolerance without indicating for PCB layout is always ± 0.1 mm.

■ PERFORMANCE CURVES

MAXIMUM SWITCHING POWER



ENDURANCE CURVE



■ NOTICE

- ① 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.