

Features

- 3A switching capability
- Contact arrangement: 1C
- High sensitivity, coil power is 200mW
- Standard DIP Construction terminal
- microminiature、gold plated contact
- Environmental friendly product(RoHS compliant)
- Outline Dimensions: (15.7×11.0×12.0) mm
- Main application: Power protection, automation, communication



CHARACTERISTICS

Specifications	Item		
Contact Data	Contact arrangement		1C
	Contact resistance(initial)		100mΩ(6VDC 0.1A)
	Contact material		AgNi+Gold Plating
Rated value	Rated load(Resistance load)		1A 240VAC/30VDC 3A 120VAC
	Max.switching voltage		240VAC/30VDC
	Max.switching current		5A
	Max.switching capacity		360VA/30W
	Min.allowing load		5VDC 100mA
Electrical performance	Insulation resistance(initial)		1000MΩ(500VDC)
	Dielectric strength (initial)	Between open contacts	500VAC,1min
		Between coil&contacts	1000VAC,1min
	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		1A 240VAC/30VDC 1×10 ⁵ ops (ON/OFF=1s/9s) 3A 120VDC 5×10 ⁴ ops (ON/OFF=1s/9s)
Operate condition	Ambient temperature		-25℃~70℃
	Humidity		5% to 85%
Termination			PCB(DIP Encapsulation)
Unit weight			Approx.5g
Construction			Plastic sealed、Flux proofed

■ COIL DATA(23°C)

■ Sensitive type(H 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	Approx.200mW	130%Nominal Voltage
DC 5V	≤3.75	≥0.25	41.7mA	120Ω		
DC 6V	≤4.50	≥0.30	33.3mA	180Ω		
DC 9V	≤6.75	≥0.45	22.5mA	400Ω		
DC 12V	≤9.00	≥0.60	17.1mA	700Ω		
DC 24V	≤18.00	≥1.20	8.6mA	2800Ω		

■ Standard type (N 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	120mA	25Ω	Approx.360mW	130%Nominal Voltage
DC 5V	≤3.75	≥0.25	71.4mA	70Ω		
DC 6V	≤4.50	≥0.30	60mA	100Ω		
DC 9V	≤6.75	≥0.45	40.9mA	220Ω		
DC 12V	≤9.00	≥0.60	30mA	400Ω		
DC 24V	≤18.00	≥1.20	15mA	1600Ω		

■ High power consumption type(B 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	Approx.450mW	130%Nominal Voltage
DC 5V	≤3.75	≥0.25	89.3mA	56Ω		
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 24V	≤18.00	≥1.20	18.75mA	1280Ω		

■ ORDERING INFORMATION

W38/W38A

-1C

S

G

H

F

-XXX

DC12V

① Type

② Contact arrangement: 1C=1switched contacts

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

④ Contact plating: Nil=have no gold plating G=gold plating

⑤ rated power: H: 200mW N: 360mW B: 450mW

⑥ insulation system: Nil=Class B、F=Class F

⑦ Customer special code: numbers or letters denote customer's requirements

⑧ Coil specification: DC3/5/6/9/12/15/18/24/48V

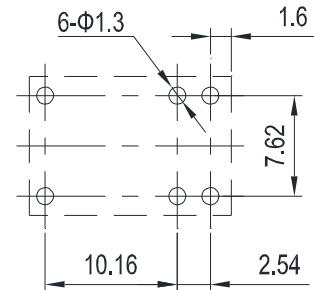
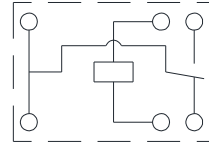
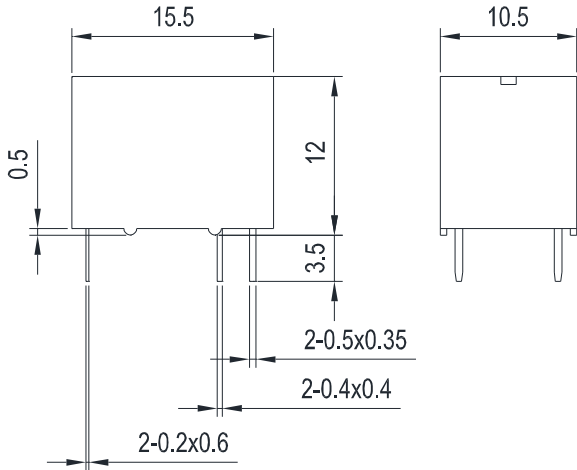
■ OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT (Unit: mm)

W38

Outline Dimensions

Wiring Diagram
(Bottom view)

PCB Layout
(Bottom view)

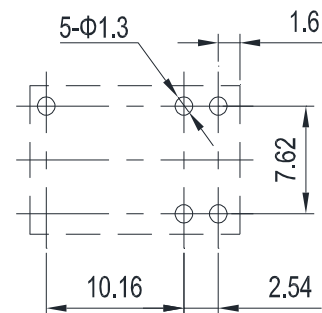
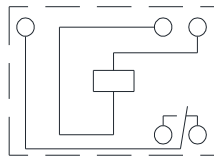
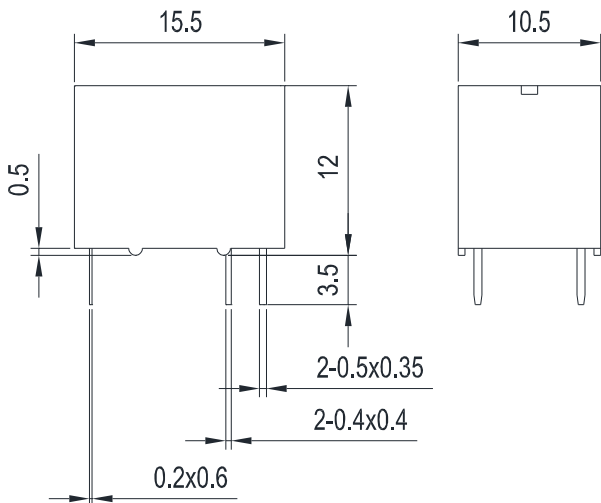


W38A

Outline Dimensions

Wiring Diagram
(Bottom view)

PCB Layout
(Bottom view)

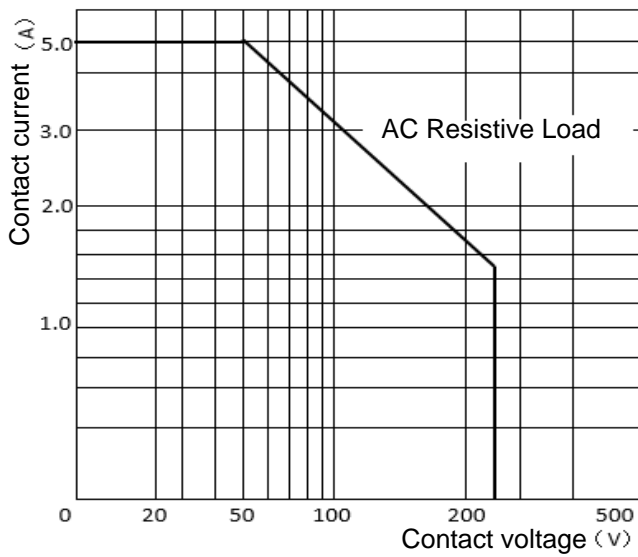


Remark:(1)In case of no tolerance shown in outline dimension:outline dimension \leq 1mm,tolerance should be \pm 0.2mm;outline dimension $>$ 1mm and $<$ 5mm,tolerance should be \pm 0.3mm;outline dimension \geq 5mm,tolerance should be \pm 0.5mm.

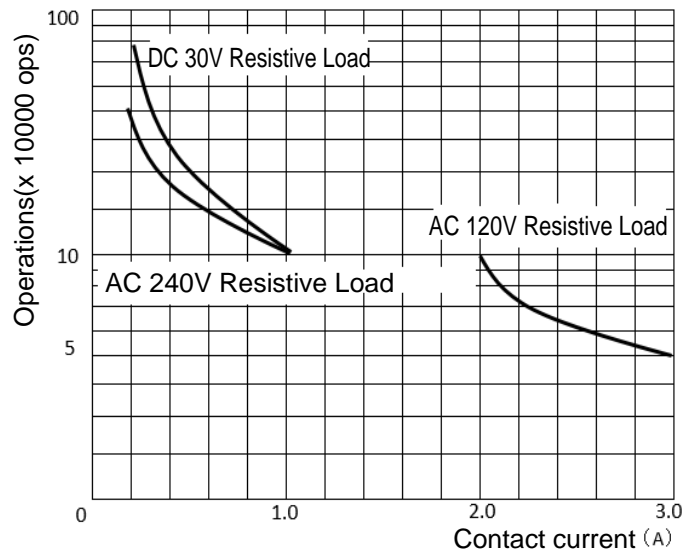
(2) The tolerance without indicating for PCB layout is always \pm 0.1mm.

■ 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.