



17.5×6.5×12.5

# NG6D

UL E158859

Patent NO.: 200420081938.2

### Features

- Small size, light weight.
- PC board mounting
- Low coil power consumption 0.2W.
- Suitable for household electrical appliances, automation system, electronic equipment, instrument, meter, telecommunication facilities and remote control facilities.

### Ordering Information

**NG6D A DC12V**  
1 2 3

1 Part number: NG6D  
2 Contact arrangement: A:1A  
3 Coil rated voltage (V): DC:5,12,24

### Contact Data

Contact Arrangement	1A (SPSTNO)		
Contact Material	Silver Alloy		
Contact Rating (resistive)	5A/30VDC, 250VAC		
Max. Switching Power	150W	1250VA	min Switching load: 10mA/5V
Max. Switching Voltage	30VDC	250VAC	Max. Switching Current: 5A
Contact Resistance or Voltage drop	<100mΩ	Item 3.12 of IEC255-7	
Operational life	Electrical	10 <sup>5</sup>	Item 3.30 of IEC255-7
	Mechanical	2 × 10 <sup>7</sup>	Item 3.31 of IEC255-7

### CAUTION:

Relays previously tested or used above 10mA resistive at 6VDC maximum or peak AC open circuit are not recommended for subsequent use in low level applications.

### Coil Parameter

Dash numbers	Rated voltage VDC		Coil resistance Ω ± 10%	Pickup voltage V (max) (70% of rated Volt)	Release voltage VDC (min) (10% of rated Volt)	Coil power consumption W	Operate Time ms	Release Time ms
	Rated	Max.						
005-200	5	6.5	125	3.5	0.5	0.2	<10	<5
012-200	12	15.6	720	8.4	1.2			
024-200	24	31.2	2880	16.8	2.4			

- CAUTION:**
1. The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.
  2. Pickup and release voltage are for test purposes only and are not to be used as design criteria.

### Operation condition

Insulation Resistance	1000MΩ min (at 500VDC)	Item 7 of IEC255-5
Dielectric Strength	50Hz 750V	Item 6 of IEC255-5
Between contacts	50Hz 3000V surge voltage: 6kV	Item 6 and 8 of IEC255-5
Between contact and coil		
Shock resistance	Functional: 100m/s <sup>2</sup> 11ms Survival: 1000m/s <sup>2</sup> 6ms	IEC68-2-27 Test Ea
Vibration resistance	10~50Hz Functional & Survival double amplitude 1.5mm	IEC68-2-6 Test Fc
Terminals strength	5N	IEC68-2-21 Test Ua1
Solderability	235°C ± 2°C 3 ± 0.5s	IEC68-2-20 Test Ta method 1
Ambient Temperature	-25~70°C	
Relative Humidity	20% ~85% (at 40°C)	IEC68-2-3 Test Ca
Mass	3g	

### Qualification inspection:

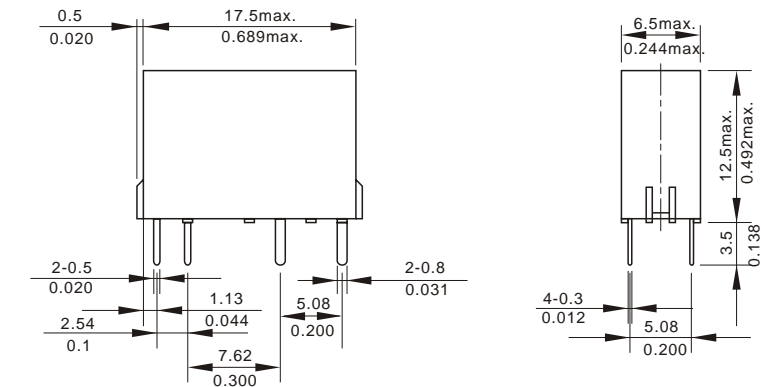
Perform the qualification test as specified in the table IV of IEC255-19-1 and minimum sample size 24.

### Safety approvals

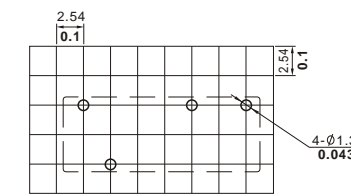
Safety approval	UL & CUR
Load	5A/250VAC, 30VDC

### Dimensions

mm / inch



Dimensions



Mounting (Bottom view)



Wiring diagram (Bottom view)

- NOTES
- 1). Dimensions are in millimeters.
  - 2). Inch equivalents are given for general information only.