



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 G
 1 2 3 4

1 Part number: NG6D
 2 Contact arrangement: A:1A
 3 Coil rated voltage (V): DC:5,12,24
 4 Contact plating option: NIL:standard; G:gold clad

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 4.12 of IEC 61810-7 | | |
| Operational life | Electrical | 10 ⁵ Item 4.30 of IEC 61810-7 | |
| | Mechanical | 2 × 10 ⁷ Item 4.31 of IEC 61810-7 | |

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

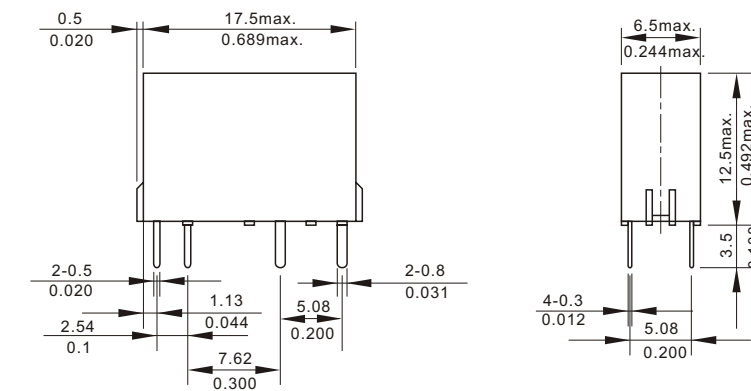
| | | |
|---|---|--|
| Insulation Resistance | 1000MΩ min (at 500VDC) | Item 7 of IEC 61810-5 |
| Dielectric Strength Between contacts Between contact and coil | 50Hz 750V 50Hz 3000V surge voltage:6kV | Item 6 of IEC 61810-5 Item 6 and 8 of IEC 61810-5 |
| Shock resistance | Functional:100m/s ² 11ms Survival:1000m/s ² 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% (at40°C) | IEC68-2-3 Test Ca |
| Mass | 3g | |

Safety approvals

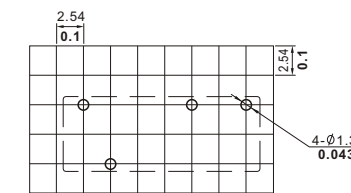
| | |
|-----------------|------------------|
| Safety approval | UL & CUR |
| Load | 5A/250VAC, 30VDC |

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.