17.5×6.5×12.5

NG6D

c UL us E158859 R50123050

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: G:Au plated

Contact Data

Contact Arrangement	1A (SPSTNO)	
Contact Material	Ag Alloy	
Contact Rating	5A/30VDC,250VAC	
Max. Switching Power	150W 1250VA	Min Switching Load:10mA/6V
Max. Switching Voltage	30VDC 250VAC	Max. Switching Current:5A
Contact Resistance	≤100mΩ	Item 4.12 of IEC 61810-7
Electrical Endurance	1×10^5	Item 4.30 of IEC 61810-7
Mechanical Endurance	2×10^7	Item 4.31 of IEC 61810-7

Notes: 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

Coil voltage VDC		Coil resistance Ω ± 10%	Pick-up voltage VDC (max) (70% of rated voltage)	Drop-out voltage VDC (min) (10% of rated voltage)	Coil power W	Operate time ms	Release time ms
Rated	Max.						
5	6.5	125	3.5	0.5	0.2	≤10	≤5
12	15.6	720	8.4	1.2			
24	31.2	2880	16.8	2.4			

Notes: 1.The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.
2.Pick-up and drop-out voltage are for test purposes only and are not to be used as design criteria.

Characteristics

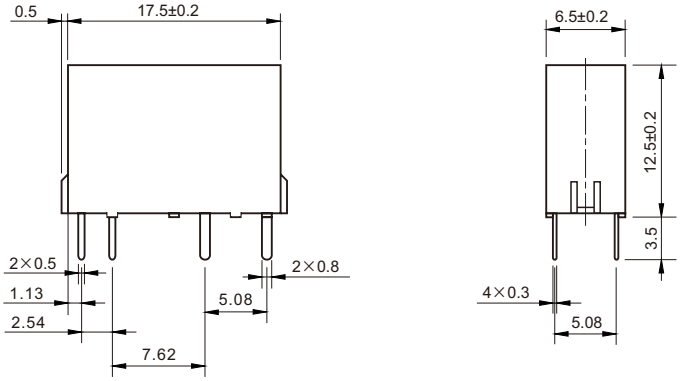
Insulation Resistance	1000MΩ min (at 500VDC)	Item 4.11 of IEC 61810-7
Dielectric Strength Between Open Contacts Between Contact and Coil	 750VAC 1min 3000VAC 1min	 Item 4.9 of IEC 61810-7
Surge voltage (Between Contact and Coil)	6kV(1.2/50μs)	Item 4.10 of IEC 61810-7
Shock Resistance	Functional:98m/s^2 11ms Destructive:980m/s^2 6ms	Item 4.26 of IEC 61810-7
Vibration Resistance	10Hz~55Hz Functional & Destructive: Double amplitude 1.5mm	Item 4.28 of IEC 61810-7
Terminals Strength	5N	Item 4.24 of IEC 61810-7
Ambient Temperature	-25℃~70℃	
Relative Humidity	5% to 85%	Item 4.16 of IEC 61810-7
Weight (Approx.)	3g	Item 4.7 of IEC 61810-7

Safety Approvals

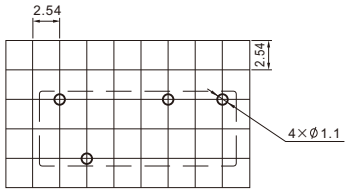
Safety approval	UL & CUR	TüV
Load	5A/250VAC,30VDC	5A/250VAC,30VDC

Dimensions

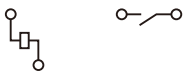
mm



Dimensions



Mounting (Bottom view)



Wiring diagram
(Bottom view)

Remark: In case of no tolerance shown in outline dimension: outline dimension≤1mm,tolerance should be ±0.2mm ; outline dimension >1mm and ≤5mm, tolerance should be ±0.3mm; outline dimension >5mm, tolerance should be ±0.4mm.