



29×12.7×16.1

c  us E169380

Features

- Latching relay.
- 20A switching capability.
- Small size, light weight and low coil power consumption.
- Dielectric strength (between contact and coil): 5kV.
- PC board mounting.

Ordering Information

NT75L C S D R G F DC12V

1 2 3 4 5 6 7 8

1 Part number: NT75L
2 Contact arrangement: A:1A; C:1C
3 Enclosure: S:Wash tight; Z:Flux proof
4 Coil: NIL:Single coil; D:Double coils

5 Polarity: Nil:Standard; R:Reverse polarity
6 Contact plating: NIL:Standard; G:Gold plated
7 Insulation standard: F:155℃
8 Coil rated voltage(V): DC:5,6,9,12,24.

Contact Data

Contact Arrangement	1A(SPSTNO) 1C(SPDT(B-M))	
Contact Material	AgSnO ₂	
Contact Rating	16A/250VAC Motor load:1HP 240VAC Incandescent lamp 1500W 277VAC TV-5 120VAC(1A)	
Max. Switching Power	4000VA	
Max. Switching Voltage	440VAC	Max. Switching Current:20A
Contact Resistance	≤50mΩ	Item4.12 of IEC61810-7
Electrical Endurance	5×10 ⁴ (NO:16A/250VAC 85℃)	Item 4.30 of IEC 61810-7
Mechanical Endurance	2×10 ⁶	Item 4.31 of IEC 61810-7

Notes: For gold plated version, the min. switching current and min. switching voltage is 50mA/6VDC; for non gold plated version (standard type),the min. switching current and min. switching voltage is 100mA/6VDC.

Coil Parameter

Coil Parameters

Coil voltage VDC	Coil resistance $\Omega \pm 10\%$	Set/Reset voltage VDC (70% of rated voltage)	Pulse duration ms	Coil power W	Set time ms	Reset time ms
1 Coil						
5 6 9 12 24	62.5 90 202.5 360 1440	3.5 4.2 6.3 8.4 16.8	≥ 30	0.4	≤ 10	≤ 10
2 Coils						
5 6 9 12 24	2×42 2×60 2×135 2×240 2×960	3.5 4.2 6.3 8.4 16.8	≥ 30	2×0.6	≤ 10	≤ 10

Notes: 1.When latching relays are installed in equipment, the latch and reset coil should not be powered simultaneously. Coil should not be pulsed with less than the nominal coil voltage and pulse width should be a minimum of three times the specified operate time of the relay. If these conditions are not followed, it is possible for the relay to be in the magnetically neutral position .
2.Switching voltage is for test purpose only and are no to be used as design criteria.

Characteristics

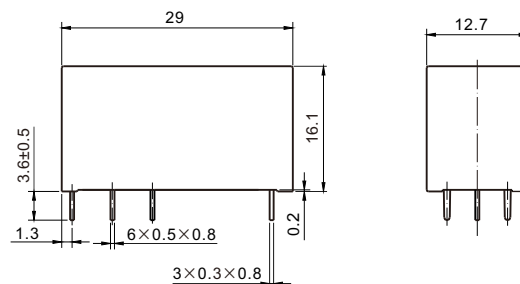
Insulation Resistance	1000MΩ min (at 500VDC)	Item 4.11 of IEC 61810-7
Dielectric Strength Between Open Contacts Between Contact and Coil	1000VAC 1min 5000VAC 1min	Item 4.9 of IEC 61810-7
Creepage Distance	8.4mm	
Shock Resistance	Functional: 98m/s ² 11ms Destructive: 980m/s ² 11ms	Item 4.26 of IEC 61810-7 Item 4.26 of IEC 61810-7
Vibration Resistance	10Hz~150Hz 10g/5g	Item 4.28 of IEC 61810-7
Terminals Strength	10N	Item 4.24 of IEC 61810-7
Ambient Temperature	-40℃~85℃	
Relative Humidity	5% to 85%	Item 4.16 of IEC 61810-7
Weight (Approx.)	13g	Item 4.7 of IEC 61810-7

Safety Approvals

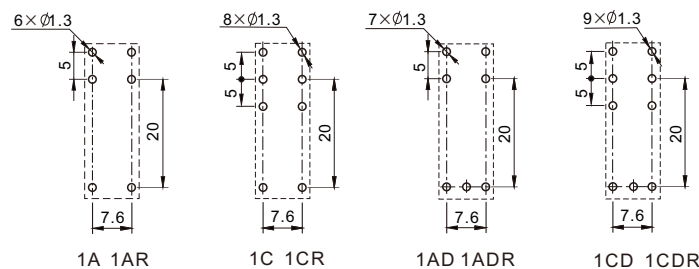
Safety approval	UL&CUR	CQC
Load	16A/250VAC	16A/250VAC

Dimensions

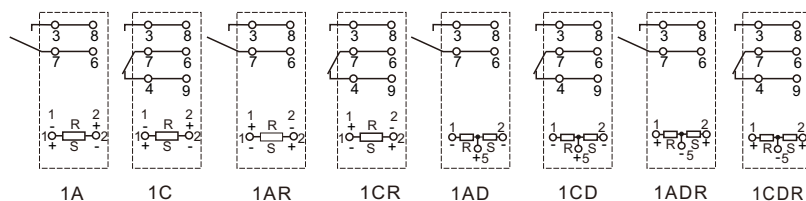
mm



Dimension



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.