

# NT75L



29×12.7×16.1



## Features

- Latching relay.
- Small size, light weight and low coil power consumption.
- Dielectric strength (between contact and coil): 5kV.
- The parts with IEC 60335-1 standard is available.
- Contact switching capacity is 20A.
- 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 Resist heat class: 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 <sub>2</sub>		
Contact Rating(Resistive)	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	
Operational Life	Electrical	5×10 <sup>4</sup> (NO:16A/250VAC 85℃)	Item 4.30 of IEC 61810-7
	Mechanical	2×10 <sup>6</sup>	Item 4.31 of IEC 61810-7

**CAUTION:** 1.It only applies to the room temperature.

2.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

Dash numbers	Rated voltage VDC	Coil resistance Ω ± 10%	Set/Reset voltage VDC (70% of rated voltage)	Pulse duration ms	Coil power W	Set time ms	Reset time ms
1 Coil							
005-400	5	62.5	3.5	≥30	0.4	≤10	≤10
006-400	6	90	4.2				
009-400	9	202.5	6.3				
012-400	12	360	8.4				
024-400	24	1440	16.8				
2 Coils							
005-600	5	2Y42	3.5	≥30	2×0.6	≤10	≤10
006-600	6	2Y60	4.2				
009-600	9	2Y135	6.3				
012-600	12	2Y240	8.4				
024-600	24	2Y960	16.8				

**CAUTION:** 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 in be the magnetically neutral position .

2.Switching voltage is for test purpose only and are no to be used as design criteria.

## Characteristics

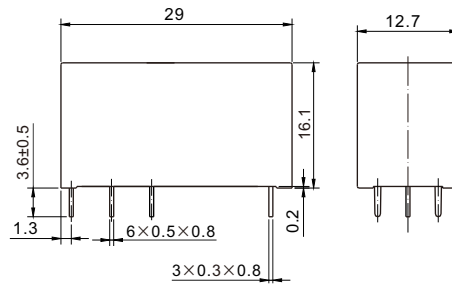
Insulation Resistance	1000M $\Omega$ min (at 500VDC)	Item 4.11 of IEC 61810-7
Dielectric Strength Between Contacts Between Contact and Coil	50Hz 1000V 50Hz 5000V	Item 4.9 of IEC 61810-7 Item 4.9 of IEC 61810-7
Creepage Distance	8.4mm	
Shock Resistance	Functional: 98m/s <sup>2</sup> 11ms	Item 4.26 of IEC 61810-7
	Destructive: 980m/s <sup>2</sup> 11ms	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°C~85°C	
Relative Humidity	5% to 85%	Item 4.16 of IEC 61810-7
Mass	13g	Item 4.7 of IEC 61810-7

## Safety Approvals

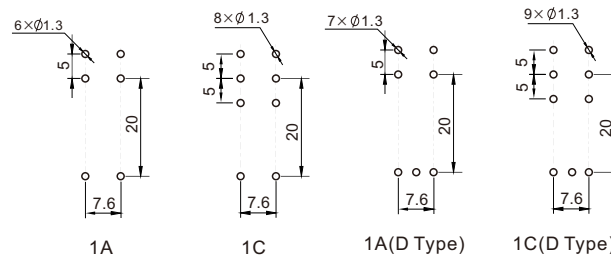
Safety approval	UL&CUR
Load	16A/250VAC

## Dimensions

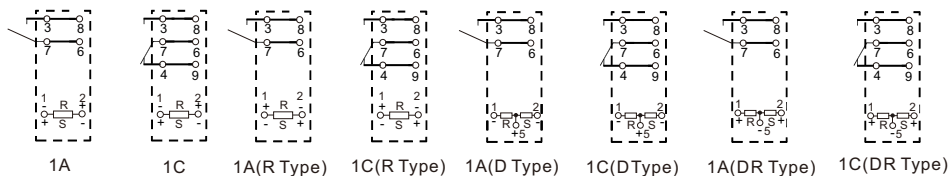
mm



Dimension



Mounting (Bottom view)



Wiring diagram(Bottom view)

**CAUTION:** In case of no tolerance shown in outline dimension: outline dimension  $\leq 1$ mm, tolerance should be  $\pm 0.2$ mm ; outline dimension  $> 1$ mm and  $\leq 5$ mm, tolerance should be  $\pm 0.3$ mm; outline dimension  $> 5$ mm, tolerance should be  $\pm 0.4$ mm.