



29×12.7×16.1

# NT75

UL E158859

40020063

CQC 10002042304

## Features

- Small size, lightweight. Low coil consumption.
- Switching capacity up to 20A.
- PC board mounting.
- Suitable for household electrical appliances, automation system, electrical equipment, instrument, meter telecommunication facilities and remote control facilities.

## Ordering Information

**NT75 1C S 12 DC12V 0.41 3.5 N G**

1 2 3 4 5 6 7 8 9

1 Part number: NT75

2 Contact arrangement: 1A:1A; 1A2:1A2; 1C:1C; 1C2:1C2;  
2A:2A; 2C:2C

3 Enclosure: S: Sealed type; Z: Dust cover

4 Contact rating: 12A, 16A/250VAC 30VDC;  
2A, 2C(0.41W): 8A/250VAC; 8A/277VAC, 30VDC

5 Coil rated voltage(V): DC: 5, 6, 9, 12, 24, 48, 60, 110

6 Coil power consumption: 0.25: 0.25W; 0.41: 0.41W

7 Pole-distance: 3.5: 3.5mm; 5.0: 5.0mm

8 Contact material: NiL: AgSnO<sub>2</sub>; N: AgNi; C: AgCdO

9 Contact plating: NiL: Standard; G: Gold plated

## Contact Data

Contact Arrangement	1A, 1A2 (SPSTNO) 1C, 1C2 (SPDT(B-M))、2A (DPSTNO)、2C (DPDT(B-M))	
Contact Material	AgNi AgSnO <sub>2</sub> AgCdO	
Contact Rating (resistive)	1A, 1C: 12A, 16A/250VAC, 30VDC (rushing current 80A) 2A, 2C(0.41W): 8A/250VAC 8A/277VAC, 30VDC	
Max. Switching Power	480W 4000VA 2C: 240W 2300VA	
Max. Switching Voltage	300VDC 440VAC	Max. Switching Current: 20A
Contact Resistance or Voltage drop	≤ 100mΩ	Item 4.12 of IEC 61810-7
Operational life	Electrical	10 <sup>5</sup> Item 4.30 of IEC 61810-7
	Mechanical	10 <sup>7</sup> Item 4.31 of IEC 61810-7

**CAUTION:** 1. For the intermediate current (10mA/6VDC~100mA/28VDC), 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	Coil voltage VDC		Coil resistance Ω ± 10%	Pickup voltage VDC(max) (70% of rated voltage)	Release voltage VDC(min) (10% of rated voltage)	Coil power consumption W	Operate Time ms	Release Time ms
	Rated	Max.						
005-250	5	6.5	100	3.5	0.5	0.25	≤ 10	≤ 5
006-250	6	7.8	144	4.2	0.6			
009-250	9	11.7	324	6.3	0.9			
012-250	12	15.6	576	8.4	1.2			
024-250	24	31.2	2304	16.8	2.4			
048-250	48	62.4	9216	33.6	4.8			
060-250	60	78	12857	42	6.0			
005-410	5	6.5	61	3.5	0.5	0.41	≤ 10	≤ 5
006-410	6	7.8	88	4.2	0.6			
009-410	9	11.7	198	6.3	0.9			
012-410	12	15.6	351	8.4	1.2			
024-410	24	31.2	1405	16.8	2.4			
048-410	48	62.4	5620	33.6	4.8			
060-410	60	78	8780/± 15%	42	6.0			
110-410	110	143	29512/± 15%	77	11.0			

**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	1000M $\Omega$ min (at 500VDC)	Item 7 of IEC 60255-5
Dielectric Strength Between contacts Between contact and coil	50Hz 1000V 50Hz 5000V	Item 6 of IEC 60255-5 Item 6 of IEC 60255-5
Shock resistance	100m/s <sup>2</sup> 11ms	IEC 68-2-27 Test Ea
Vibration resistance	10Hz~55Hz double amplitude 1.5mm	IEC 68-2-6 Test Fc
Terminals strength	10N	IEC 68-2-21 Test Ua1
Solderability	260 $^{\circ}$ C $\pm$ 2 $^{\circ}$ C 5s $\pm$ 0.5s	IEC 68-2-20 Test Ta method 1
Ambient Temperature	-40 $^{\circ}$ C~85 $^{\circ}$ C	
Relative Humidity	85% (at 40 $^{\circ}$ C)	IEC 68-2-3 Test Ca
Mass	11g 12g	

### Safety approvals

Safety approval	VDE	UL&CUR	CQC
Load	1A,1C:16A/250VAC 2A,2C:8A/250VAC	1A,1C:12A,16A/250VAC, 12A/30VDC(1C) 2A,2C:8A/277VAC,30VDC	1A,1C: 16A/250VAC 2A,2C: 8A/250VAC

### Dimensions

mm /inch

