



# NT75

### 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 C S 12 DC12V 0.41 3.5 N G**

1 2 3 4 5 6 7 8 9

1 Part number: NT75	5 Coil rated voltage(V): DC:5,6,9,12,24,48,60,110 AC:24,115,230
2 Contact arrangement:A:1A; A2:1A2; C:1C; C2:1C2; 2A:2A; 2C:2C	6 Coil power consumption: 0.25:0.25W;0.41:0.41W; 0.75:0.75VA
3 Enclosure:S: Sealed type; Z: Dust cover	7 Pole-distance: 3.5:3.5mm; 5.0:5.0mm
4 Contact rating:12A,16A/250VAC 30VDC; NO:20A/277VAC,NC:16A/277VAC 2A,2C(0.41W):8A/250VAC 30VDC;8A,10A/277VAC	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 (SPSTNO) 1C (SPDT(B-M)) 2A (DPSTNO) 2C (DPDT(B-M))
Contact Material	AgNi AgSnO <sub>2</sub> AgCdO
Contact Rating (resistive)	1A,1C:12A,16A,20A/250VAC,30VDC (rushing current 80A) NO:20A/277VAC NC:16A/277VAC 2A,2C(0.41W):8A/250VAC,30VDC 8A,10A/277VAC
Max. Switching Power	480W 5600VA 2C:240W 2800VA
Max. Switching Voltage	125VDC 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	≤15	≤8
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	0.41	≤15	≤8
005-410	5	6.5	61	3.5	0.5			
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	8780/±15%	≤15	≤8
060-410	60	78	12857	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.

### Coil Parameter(AC)

Dash numbers	Coil voltage VAC		Coil resistance Ω ±10%	Rated current (mA)	Pickup voltage VAC(max) (70%of rated voltage)	Release voltage VAC(min) (10% of rated voltage)	Coil power consumption VA
	Rated	Max.					
024AC-750	24	31.2	350	31.6	18	3.6	0.75
115AC-750	115	149.5	8100/±15%	6.6	86.3	17.3	
230AC-750	230	299	32500/±15%	3.2	172.5	34.5	

**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 60255-5
Dielectric Strength	50Hz 1000V	Item 6 of IEC 60255-5
Between contacts	50Hz 5000V	Item 6 of IEC 60255-5
Between contact and coil		
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	235°C ±2°C 3s ±0.5s	IEC 68-2-20 Test Ta method 1
Ambient Temperature	-40°C~85°C	
Relative Humidity	85% (at 40°C)	IEC 68-2-3 Test Ca
Mass	11g 12g	

### Safety approvals

Safety approval	VDE	UL&CUR	TUV	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: NO:20A/277VAC NC:16A/277VAC 2A,2C: 10A/277VAC	1A,1C: 16A/250VAC 2A,2C: 8A/250VAC

### Dimensions

