# FORWARD RELAYS



# **NT75**

**L**<sub>us</sub>E158859 🕸 40020063 **( )** 10002042304

#### **Features**

- Small size, light weight.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.
- Product in accordance to IEC60335-1 available.

#### Ordering Information 0.41 3.5 **12** 2

1 Part number: NT75 2 Contact arrangement:

1A:1A; 1C:1C; 2A:2A; 2C:2C

3 EnclosureJS: Wash tight; Z: Flux proof 4 Coil power: 0.25:0.25W; 0.41:0.41W;

0.53:0.53W (2A:10A/250VAC,30VDC)

5 Pole-distance: 3.5:3.5mmJ5:5.0mm 6 Contact meteial: NIL:AgSnO2; N:AgNi 7 Contact plating: Nil:StandardJG:Au plated

8 Contact rating:

1A,1C:12A,16A/250VAC 30VDC 2A,2C(0.41W):NO:8A/277VAC,30VDC

NC:8A/277VAC,30VDC 2A(0.53W):10A/250VAC,30VDC 9 Coil rated voltage(V): DC:5,6,9,12,24,48,110

10 W: 335 compliant; Nil:Standard

#### **Contact Data**

· · · · · · · · · · · · · · · · · · ·					
Contact Arrangement		1A(SPSTNO) 1C(SPDT(B-M)	) 2A(DPSTNO) 2C(DPDT(B-M))		
Contact Material		AgSnO <sub>2</sub> AgNi			
Contact Rating (Resistive)		1A,1C:12A,16A/250VAC,30VDC (Rushing current 80A) 2A,2C(0.41W):NO:8A/277VAC,30VDC; NC:8A/277VAC,30VDC 2A(0.53W):10A/250VAC,30VDC			
Max. Switching Power		1C:480W 4000VA 2C:300W 2500VA			
Max. Switching Voltage		125VDC 440VAC	Max. Switching Current:20A		
Contact Resistance		≤100mΩ	Item 4.12 of IEC 61810-7		
Operational Life	Electrical	1×10 <sup>5</sup> 5×10 <sup>4</sup> (10A/250VAC 85°C) 1×10 <sup>4</sup> (10A/30VDC 85°C)	Item 4.30 of IEC 61810-7		
	Mechanical	1×10 <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	Coil voltage VDC		Coil resistance	Pick-up voltage VDC(max)	Drop-out voltage VDC(min)	Coil power	Operate time	Release time
	numbers	Rated	Max.	Ω ± 10%	(70%of rated voltage)	(10% of rated voltage)	W	ms	ms
	005-250 006-250 009-250 012-250 024-250 048-250	5 6 9 12 24 48	6.5 7.8 11.7 15.6 31.2 62.4	100 144 324 576 2304 9216	3.5 4.2 6.3 8.4 16.8 33.6	0.5 0.6 0.9 1.2 2.4 4.8	0.25	≤15	≤8
	005-410 006-410 009-410 012-410 024-410 048-410	5 6 9 12 24 48	6.5 7.8 11.7 15.6 31.2 62.4	61 88 198 351 1405 5620	3.5 4.2 6.3 8.4 16.8 33.6	0.5 0.6 0.9 1.2 2.4 4.8	0.41	≪15	≪8

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**

Dash numbers	Coil voltage VDC		Coil voltage	Pick-up voltage VDC(max)	Drop-out voltage VDC(min)	Coil power	Operate time	Release time
	Rated	Max.	Ω ± 10%	(70%of rated voltage)	(10% of rated voltage)	W	ms	ms
005-530 006-530 009-530 012-530 024-530 048-530	5 6 9 12 24 48	6.5 7.8 11.7 15.6 31.2 62.4	47.1 67.9 152.8 271.7 1086.8 4347.2	3.5 4.2 6.3 8.4 16.8 33.6	0.5 0.6 0.9 1.2 2.4 4.8	0.53	≤15	≪8

**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.

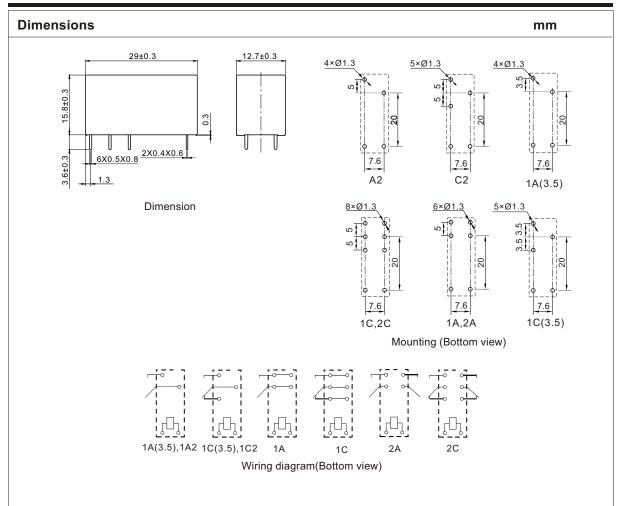
### **Characteristics**

o i i ai a o to i i o ti o o			
Insulation Resistance	1000M Ω 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	
Shock Resistance	98m/s <sup>2</sup> 11ms	Item 4.26 of IEC 61810-7	
Vibration Resistance	10Hz~55Hz Double amplitude 1.5mm	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	
Mass	12.5g 13.2g	Item 4.7 of IEC 61810-7	

## **Safety Approvals**

Safety approval	UL&CUR	VDE	CQC
Load	1A,1C:12A,16A/250VAC; 12A/30VDC(1C) 2A,2C:8A/277VAC,30VDC 2A(0.53W):10A/250VAC,30VDC	1A,1C:16A/250VAC 2A,2C:8A/250VAC	1A,1C: 16A/250VAC 2A,2C: 8A/250VAC

# **FORWARD RELAYS**



CAUTION: 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.

