

# NT72(4459)&NT72-2



22.3×17.3×15  
21.4×16.5×15 (NT72-2)

E158859

CH0077845

R9858273

## Features

- Small size, light weight.
- Low price reliable quality.
- PC board mounting.
- Suitable for household electrical appliance, automation system, electronic equipment, instrument, meter, telecommunication facilities and remote control facilities.

## Ordering Information

**NT72 C S 10 DC12V 0.36**  
1 2 3 4 5 6

- |  |  |
|--|--|
| 1 Part number: NT72 (4459), NT72-2           | 4 Contact Current: 5A,6A,10A,12A                             |
| 2 Contact arrangement: A:1A; B:1B; C:1C      | 5 Coil rated Voltage(V): DC:3,5,6,9,12,18,24,48              |
| 3 Enclosure: S: Sealed type; NIL: Dust cover | 6 Coil power consumption: 0.36:0.36W; 0.45:0.45W; 0.61:0.61W |

## Contact Data

Contact Arrangement	1A (SPSTNO), 1B(SPSTNC), 1C(SPDT(B-M))	
Contact Material	Ag·CdO Ag·SnO <sub>2</sub>	
Contact Rating (resistive)	UL:5A,10A,12A/125VAC,28VDC; 10A/240VAC;6A/250VAC,28VDC	
	TüV : 6A/250VAC, 28VDC	
	Motor load : 1/3HP 120VAC; 1/3HP 240VAC	
Max. Switching Power	336W	2400VA
Max. Switching Voltage	110VDC	380VAC
Contact Resistance or Voltage drop	≤50mΩ	Max. Switching Current:15A
Operation life	Electrical 10 <sup>5</sup>	Item 3.12 of IEC255-7
	Mechanical 10 <sup>7</sup>	Item 3.30 of IEC255-7
		Item 3.31 of IEC255-7

## Coil Parameter

Dash Numbers	Coil voltage VDC		Coil resistance Ω±10%	Pickup voltage VDC(max) (75%of rated voltage )	release voltage VDC(min) (10% of rated voltage)	Coil power consumption W	Operate Time ms	Release Time ms
	Rated	Max.						
003-360	3	3.9	25	2.25	0.3	0.36	≤7	≤4
005-360	5	6.5	69	3.75	0.5			
006-360	6	7.8	100	4.50	0.6			
009-360	9	11.7	225	6.75	0.9			
012-360	12	15.6	400	9.00	1.2			
018-360	18	23.4	900	13.5	1.8			
024-360	24	31.2	1600	18.0	2.4			
003-450	3	3.9	20	2.25	0.3	0.45	≤7	≤4
005-450	5	6.5	56	3.75	0.5			
006-450	6	7.8	80	4.50	0.6			
009-450	9	11.7	180	6.75	0.9			
012-450	12	15.6	320	9.00	1.2			
018-450	18	23.4	720	13.5	1.8			
024-450	24	31.2	1280	18.0	2.4			
048-610	48	62.4	3800	36.0	4.8	0.61		

**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	500M $\Omega$ min (at 500VDC)	Item 7 of IEC255-5
Dielectric Strength		
Between contacts	50Hz 1000V	Item 6 of IEC255-5
Between contact and coil	50Hz 2500V 4000V(NT72-2)	Item 6 of IEC255-5
Shock resistance	100m/s <sup>2</sup> 11ms	IEC68-2-27 Test Ea
Vibration resistance	10~55Hz double amplitude 1.5mm	IEC68-2-6 Test Fc
Terminals strength	10N	IEC68-2-21 Test Ua1
Solderability	235 $^{\circ}$ C $\pm$ 2 $^{\circ}$ C 3 $\pm$ 0.5s	IEC68-2-20 Test Ta method 1
Ambient Temperature	-40~85 $^{\circ}$ C	
Relative Humidity	85% (at 40 $^{\circ}$ C)	IEC68-2-3Test Ca
Mass	11g	

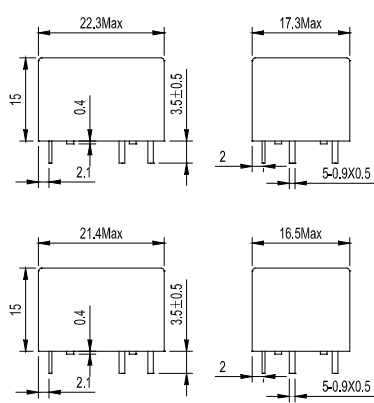
**Qualification inspection:**

Perform the qualification test as specified in the table IV of IEC255-19-1 and minimum sample size 24.

**Safety approvals**

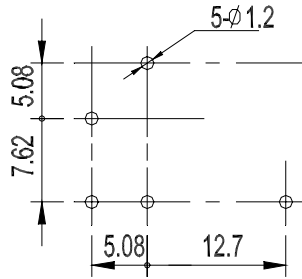
Safety approval	UL&CUR	TüV	CCEE
Load	12A/125VAC 28VDC 6A/250VAC 1/3HP 120VAC 240VAC Insulation: B-class F-class	6A/250VAC 28VDC 10A/250VAC 28VDC	5A/250VAC

**Dimensions (Unit: mm)**

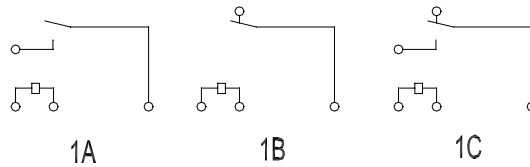


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Mounting (Bottom views)



Wiring diagram  
(Bottom views)

mm	inch
0.4	0.016
0.5	0.020
0.6	0.024
0.9	0.035
1.2	0.047
2.0	0.079
2.1	0.083
3.5	0.138
5.08	0.200
7.62	0.300
12.7	0.500
15	0.591
16.5	0.650
17.3	0.681
21.4	0.843
22.3	0.878

NOTES 1).Dimensions are in millimeter.

2).Inch equivalents are given for general information only.

**Reference Data**

