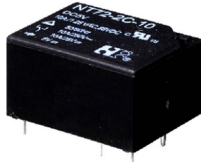
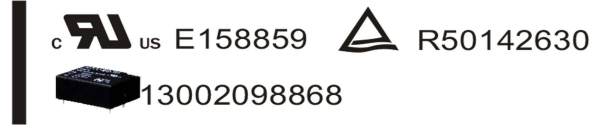


# NT72 & NT72-2



22.3×17.3×15 21.4×16.5×15 (NT72-2)



## Features

- Small size, light weight.
- Reliable quality.
- PC board mounting.
- Suitable for household electrical appliances, 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, NT72-2

2 Contact arrangement: A:1A; B:1B; C:1C

3 Enclosure: S:Wash tight ; NIL:Flux proof

4 Contact current: 3A,5A,6A,10A,12A

5 Coil rated voltage(V): DC:3,5,6,9,12,18,24,48

6 Coil power: 0.36:0.36W; 0.45:0.45W; 0.51:0.51W

## Contact Data

|                            |   |  |  |
|----------------------------|---|--|--|
| Contact Arrangement        | 1A(SPSTNO) 1B(SPSTNC) 1C(SPDT(B-M))                                 |  |  |
| Contact Material           | AgSnO <sub>2</sub> , AgCdO  |  |  |
| Contact Rating (Resistive) | 5A,10A,12A/125VAC,28VDC; 6A/300VAC,28VDC<br>3A,5A,10A/240VAC,250VAC |  |  |
|                            | Motor Load : 1/3HP 120VAC; 1/3HP 240VAC                             |  |  |
| Max. Switching Power       | 336W 2500VA   |  |  |
| Max. Switching Voltage     | 30VDC 300VAC  | Max. Switching Current:15A                 |  |
| Contact Resistance         | ≤50mΩ Item 4.12 of IEC 61810-7                                      |  |  |
| Operational Life           | Electrical  | 1×10 <sup>5</sup> 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, it only applies to the room temperature.

## Coil Parameter

| Dash numbers | Coil voltage VDC |      | Coil resistance Ω ±10% | Pick-up voltage VDC(max) (75%of rated voltage ) | Drop-out voltage VDC(min) (10% of rated voltage) | Coil power 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  |              |                 |                 |
| 048-510      | 48               | 62.4 | 4518                   | 36.0  | 4.8  | 0.51         |                 |                 |

**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

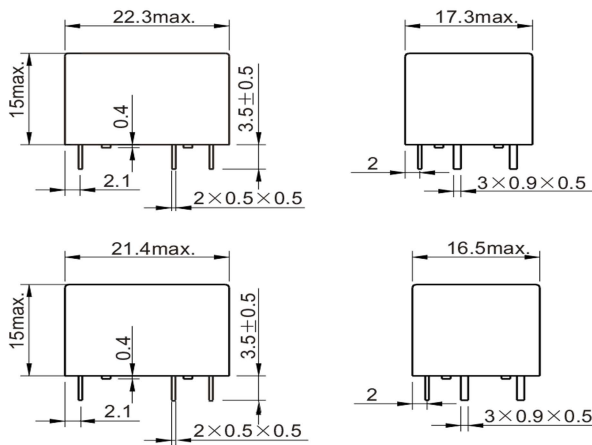
|   |  |  |
|---|--|--|
| Insulation Resistance   | 500M $\Omega$ min (at 500VDC)          | Item 4.11 of IEC 61810-7                           |
| Dielectric Strength<br>Between Contacts<br>Between Contact and Coil | 50Hz 1000V<br>50Hz 2500V 4000V(NT72-2) | Item 4.9 of IEC 61810-7<br>Item 4.9 of IEC 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 $^{\circ}$ C~85 $^{\circ}$ C       |  |
| Relative Humidity   | 5% to 85%                              | Item 4.16 of IEC 61810-7                           |
| Mass  | 11g                                    | Item 4.7 of IEC 61810-7                            |

## Safety Approvals

| Safety approval | UL&CUR   | TUV              | CQC       |
|-----------------|--|------------------|-----------|
| Load            | 12A/125VAC, 28VDC<br>10A/240VAC ; 6A/300VAC<br>1/3HP 120VAC 240VAC | 10A/250VAC 28VDC | 5A/250VAC |

## Dimensions

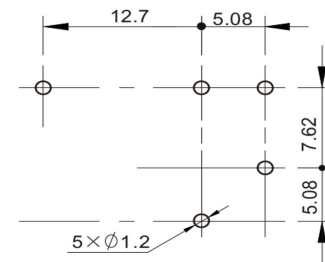
mm



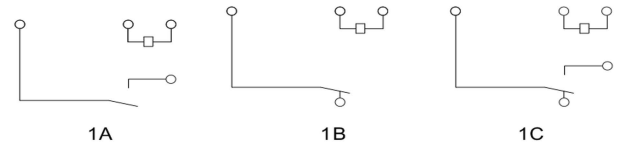
Dimensions

T72

NT72-2



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.

## Reference Data

