

22.3×17.3×15 21.4×16.5×15 (NT72-2)

## NT72(4459)&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(4459), NT72-2         | 4 Contact current 3A,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                   | AgCdO AgSnO <sub>2</sub>                                     |  |
| Contact Rating (resistive)         | 5A,10A,12A/125VAC,28VDC; 6A/300VAC,28VDC<br>3A,5A,10A/250VAC |  |
|                                    | Motor load : 1/3HP 120VAC; 1/3HP 240VAC                      |  |
| Max. Switching Power               | 336W 2500VA  |  |
| Max. Switching Voltage             | 110VDC 380VAC  | Max. Switching Current:15A               |
| Contact Resistance or Voltage drop | ≤50mΩ  | 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, it only applies to the room temperature.

### Coil Parameter

| Dash numbers | Coil voltage VDC |      | Coil resistance ±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.

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## Operation condition

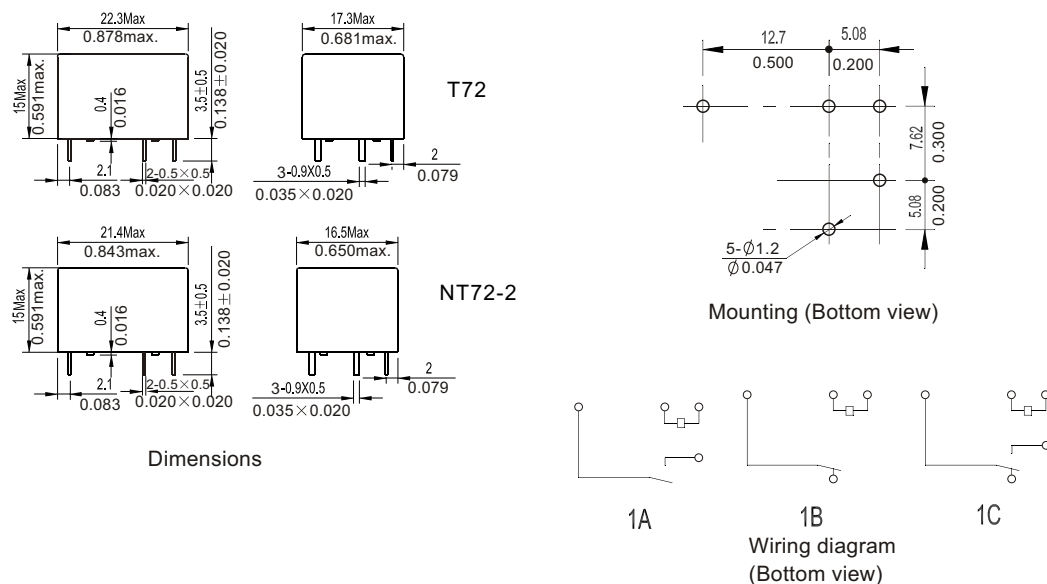
|                          |                                  |                              |
|--------------------------|----------------------------------|------------------------------|
| Insulation Resistance    | 500M min (at 500VDC)             | Item 7 of IEC 60255-5        |
| Dielectric Strength      |                                  |                              |
| Between contacts         | 50Hz 1000V                       | Item 6 of IEC 60255-5        |
| Between contact and coil | 50Hz 2500V 4000V(NT72-2)         | 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 5 5s 0.5s                    | IEC 68-2-20 Test Ta method 1 |
| Ambient Temperature      | -40 ~85                          |                              |
| Relative Humidity        | 85% (at 40 )                     | IEC 68-2-3 Test Ca           |
| Mass                     | 11g                              |                              |

## 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 /inch



NOTES 1).Dimensions are in millimeters.  
2).Inch equivalents are given for general information only.

## Reference Data

