

# NT73-2



19.5×15.6×15.3

CQC 03001003508

UL E158859 R50050438

PATENT NO.:95 2 18643.8

### Features

- Small size, light weight, heavy reverse power.
- Low coil power consumption.
- PC board mounting.
- Suitable for automation control, telecommunication equipment, household electrical appliances and machinery electrical facilities.

### Ordering Information

**NT73-2** **C** **S** **10** **DC12V** **0.36**

1 2 3 4 5 6

1 Part number: NT73-2  
 2 Contact arrangement: A:1A; B:1B; C:1C  
 3 Enclosure: S: Sealed type; NIL: Dust cover  
 4 Contact rating: 5A,10A,12A,15A/125VAC 28VDC; 6A/277VAC  
 20A/125VAC 16VDC;10A/250VAC (0.8W); T<sub>UV</sub>:6A/250VAC 28VDC  
 5 Coil rated voltage(V): DC:3,5,6,9,12,24,48  
 6 Coil power consumption: 0.36;0.36W; 0.45;0.45W; 0.8;0.8W

### Contact Data

|                                    |   |  |
|------------------------------------|---|--|
| Contact Arrangement                | 1A (SPSTNO) 、1B (SPSTNC) 、1C (SPDT(B-M))  |  |
| Contact Material                   | AgCdO AgSnO <sub>2</sub>  |  |
| Contact Rating (resistive)         | 5A,6A,10A,12A,15A/125VAC,28VDC;20A/125VAC,16VDC;<br>6A/250VAC,277VAC;10A/250VAC<br>(15A 0.45W ; 20A 0.8W coil only )<br>Motor load: 1/3HP 125VAC ; 1/3HP 277VAC |  |
| Max. Switching Power               | 420W 2500VA   |  |
| Max. Switching Voltage             | 110VDC 380VAC   | 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 |

### 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                     | ≤10             | <5              |
| 005-360      | 5                | 6.5  | 70                     | 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   |                          |                 |                 |
| 024-360      | 24               | 31.2 | 1600                   | 18.0   | 2.4   |                          |                 |                 |
| 048-360      | 48               | 62.4 | 6400                   | 36.0   | 4.8   |                          |                 |                 |
| 003-450      | 3                | 3.9  | 20                     | 2.25   | 0.3   | 0.45                     | ≤10             | <5              |
| 005-450      | 5                | 6.5  | 55.6                   | 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   |                          |                 |                 |
| 024-450      | 24               | 31.2 | 1280                   | 18.0   | 2.4   |                          |                 |                 |
| 048-450      | 48               | 62.4 | 5120                   | 36.0   | 4.8   |                          |                 |                 |
| 003-800      | 3                | 3.9  | 11                     | 2.25   | 0.3   | 0.80                     | <10             | <5              |
| 005-800      | 5                | 6.5  | 31                     | 3.75   | 0.5   |                          |                 |                 |
| 006-800      | 6                | 7.8  | 45                     | 4.50   | 0.6   |                          |                 |                 |
| 009-800      | 9                | 11.7 | 101                    | 6.75   | 0.9   |                          |                 |                 |
| 012-800      | 12               | 15.6 | 180                    | 9.00   | 1.2   |                          |                 |                 |
| 024-800      | 24               | 31.2 | 720                    | 18.0   | 2.4   |                          |                 |                 |
| 048-800      | 48               | 62.4 | 2880                   | 36.0   | 4.8   |                          |                 |                 |

**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.

### Operation condition

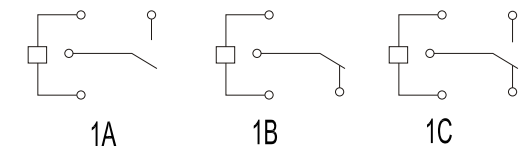
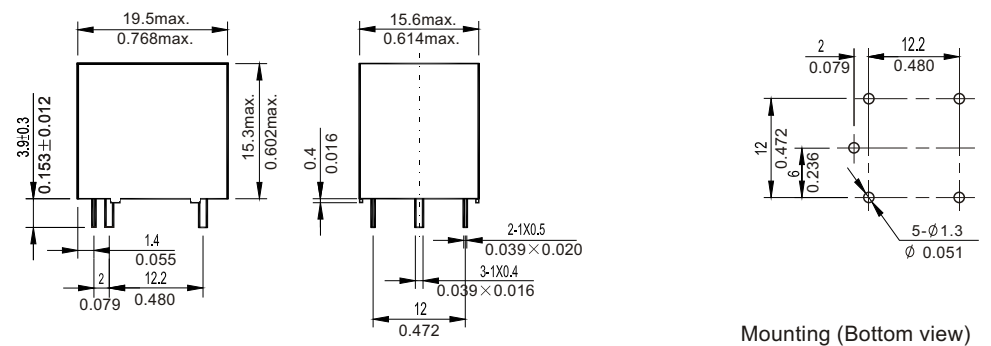
|                          |                                |                             |
|--------------------------|--------------------------------|-----------------------------|
| Insulation Resistance    | 250MΩ min (at 500VDC)          | Item 7 of IEC 61810-5       |
| Dielectric Strength      |                                |                             |
| Between contacts         | 50Hz 750V                      | Item 6 of IEC 61810-5       |
| Between contact and coil | 50Hz 1500V                     | Item 6 of IEC 61810-5       |
| 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       | 5N                             | IEC68-2-21 Test Ua1         |
| Solderability            | 235°C ± 2°C 3 ± 0.5s           | IEC68-2-20 Test Ta method 1 |
| Ambient Temperature      | -55~85°C                       |                             |
| Relative Humidity        | 93% (at 40°C)                  | IEC68-2-3Test Ca            |
| Mass                     | 9.5g                           |                             |

### Safety approvals

| Safety approval | UL   | TUV             | CQC       |
|-----------------|--|-----------------|-----------|
| Load            | 20A/125VAC,16VDC 12A/28VDC<br>10A/250VAC 6A/277VAC<br>1/3HP 125VAC/277VAC<br>Insulation: B-class F-class | 6A/250VAC 28VDC | 7A/250VAC |

### Dimensions

mm /inch



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

### Reference Data

