

22.3×16.6×11

NT76

CE E9930952E01

UL E160644 R2033977.03

Patent No.: 99206684.0

Features

- Super light in weight.
- High sensitivity.
- Switching capacity up to 16A.
- PC board mounting.

Ordering Information

NT76 C S DC12V C 0.2  
1 2 3 4 5 6

1 Part number: NT76

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

3 Enclosure: S: Sealed type; Z: Dust cover

4 Coil rated Voltage(V): DC:3,5,6,9,12,18,24,48,100

5 Contact material: C: Ag·CdO; S: Ag·SnO<sub>2</sub>·In<sub>2</sub>O<sub>3</sub>

6 Coil power consumption: 0.2:0.2W; 0.25:0.25W;  
0.45:0.45W; 0.6:0.6W

Contact Data

Contact Arrangement

1A (SPSTNO)、1C (SPDT(B-M))

Contact Material

Ag·CdO Ag·SnO<sub>2</sub>·In<sub>2</sub>O<sub>3</sub>

Contact Rating (resistive)

1A: 16A/250VAC, 30VDC ; 1C: 10A/250VAC, 30VDC

TüV 16A/250VAC,30VDC

Max. Switching Power

300W 2500VA

Max. Switching Voltage

110VDC 380VAC

Max. Switching Current:16A

Contact Resistance or Voltage drop

≤50mΩ

Item 3.12 of IEC255-7

Operation

Electrical

10<sup>5</sup>

Item 3.30 of IEC255-7

life

Mechanical

10<sup>7</sup>

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) (5% of rated voltage) | Coil power consumption W | Operate Time Ms | Release Time ms |
|--------------|------------------|------|-----------------------|--|--|--------------------------|-----------------|-----------------|
|              | Rated            | Max. |                       |  |  |                          |                 |                 |
| 005-200      | 5                | 6.5  | 125                   | 3.75   | 0.25   | 0.20                     | ≤10             | ≤5              |
| 006-200      | 6                | 7.8  | 180                   | 4.50   | 0.30   |                          |                 |                 |
| 009-200      | 9                | 11.7 | 405                   | 6.75   | 0.45   |                          |                 |                 |
| 012-200      | 12               | 15.6 | 720                   | 9.00   | 0.60   |                          |                 |                 |
| 018-200      | 18               | 23.4 | 1620                  | 13.5   | 0.90   |                          |                 |                 |
| 024-200      | 24               | 31.2 | 2880                  | 18.0   | 1.20   | 0.25                     | ≤10             | ≤5              |
| 048-250      | 48               | 52.8 | 9216                  | 38.4   | 2.40   |                          |                 |                 |
| 005-450      | 5                | 6.5  | 56                    | 3.75   | 0.25   | 0.45                     | ≤10             | ≤5              |
| 006-450      | 6                | 7.8  | 80                    | 4.50   | 0.30   |                          |                 |                 |
| 009-450      | 9                | 11.7 | 180                   | 6.75   | 0.45   |                          |                 |                 |
| 012-450      | 12               | 15.6 | 320                   | 9.00   | 0.60   |                          |                 |                 |
| 018-450      | 18               | 23.4 | 720                   | 13.5   | 0.90   |                          |                 |                 |
| 024-450      | 24               | 31.2 | 1280                  | 18.0   | 1.20   | 0.6                      | ≤10             | ≤5              |
| 048-450      | 48               | 52.8 | 5120                  | 38.4   | 2.40   |                          |                 |                 |
| 100-600      | 100              | 130  | 16600                 | 80.0   | 10.0   |                          |                 |                 |

**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    | 100M $\Omega$ min (at 500VDC)                      | Item 7 of IEC255-5          |
| Dielectric Strength      |  |                             |
| Between contacts         | 50Hz 750V  | Item 6 of IEC255-5          |
| Between contact and coil | 50Hz 1500V   | 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 20 $^{\circ}$ C)                           | IEC68-2-3Test Ca            |
| Mass                     | 10g  |                             |

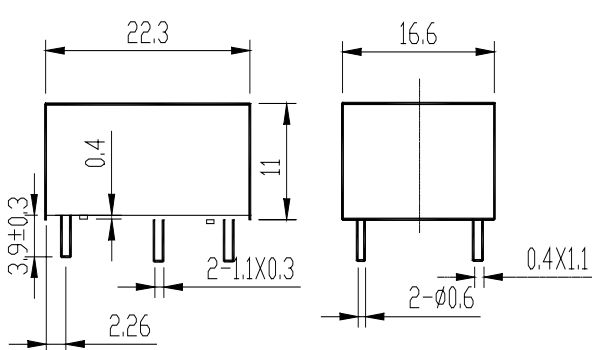
**Qualification inspection:**

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

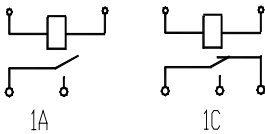
**Safety approvals**

| Safety approval | UL                            | TüV              |
|-----------------|-------------------------------|------------------|
| Load            | 1A: 16A/250VAC 1C: 10A/250VAC | 16A/250VAC;14VDC |

**Dimensions (Unit: mm)**



Dimensions



Wiring diagram  
(Bottom views)

| mm    | inch  |
|-------|-------|
| 0.3   | 0.012 |
| 0.4   | 0.016 |
| 0.6   | 0.024 |
| 0.9   | 0.035 |
| 1.1   | 0.043 |
| 1.3   | 0.051 |
| 2.26  | 0.089 |
| 3.9   | 0.153 |
| 7.62  | 0.300 |
| 10.16 | 0.400 |
| 11.0  | 0.433 |
| 12.7  | 0.500 |
| 16.6  | 0.653 |
| 17.78 | 0.700 |
| 22.3  | 0.878 |

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

**Reference Data**

