

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
Contact Resistance or Voltage drop	≤50mΩ
Operation life	Electrical 10 <sup>5</sup> Mechanical 10 <sup>7</sup>
	Max. Switching Current:16A Item 3.12 of IEC255-7 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) (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			
048-250	48	52.8	9216	38.4	2.40	0.25	≤10	≤5
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			
048-450	48	52.8	5120	38.4	2.40	0.6	≤10	≤5
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 $\pm$ 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	

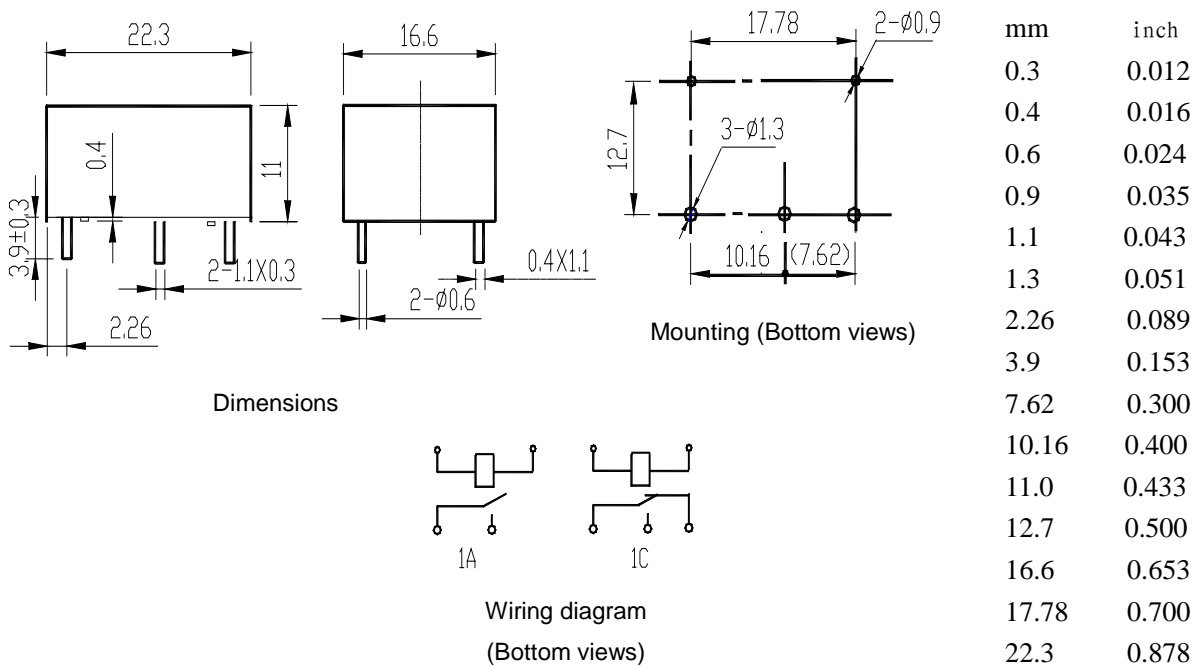
**Qualification inspection:**

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)**



NOTES 1).Dimensions are in millimeter.

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

**Reference Data**

