



18.4×15.2×10.2

**N T 7 7**

**CE** E9930952E01

**△** R2033977.04

**cULUS** E158859

**Features**

- Super light in weight.
- High sensitivity.
- Switching capacity up to 12A.
- PC board mounting.

**Ordering Information**

**NT77 A S 10 DC12V**  
 1 2 3 4 5

1 Part number: NT77

2 Contact arrangement: A:1A

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

4 Contact current: 5:5A; 10:10A; 12:12A

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

**Contact Data**

Contact Arrangement	1A (SPSTNO)	
Contact Material	Ag·CdO Ag·SnO <sub>2</sub>	
Contact Rating (resistive)	10A/277VAC,30VDC; 12A/125VAC	
Max. Switching Power	300W 2770VA	
Max. Switching Voltage	30VDC 300VAC	Max. Switching Current:12A
Contact Resistance or Voltage drop	≤50mΩ	Item 3.12 of IEC255-7
Operation life	Electrical	10 <sup>5</sup> Item 3.30 of IEC255-7
	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.						
003-450	3	3.3	20	2.25	0.15	0.45	≤8	≤5
005-450	5	5.5	56	3.75	0.25			
006-450	6	6.6	80	4.50	0.30			
009-450	9	9.9	180	6.75	0.45			
012-450	12	13.2	320	9.00	0.60			
018-450	18	19.8	720	13.5	0.90			
024-450	24	26.4	1280	18.0	1.20			

**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 1000V	Item 6 of IEC255-5
Between contact and coil	50Hz 2500V	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	5N	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	-40~70 $^{\circ}$ C	
Relative Humidity	85% (at 40 $^{\circ}$ C)	IEC68-2-3Test Ca
Mass	7g	

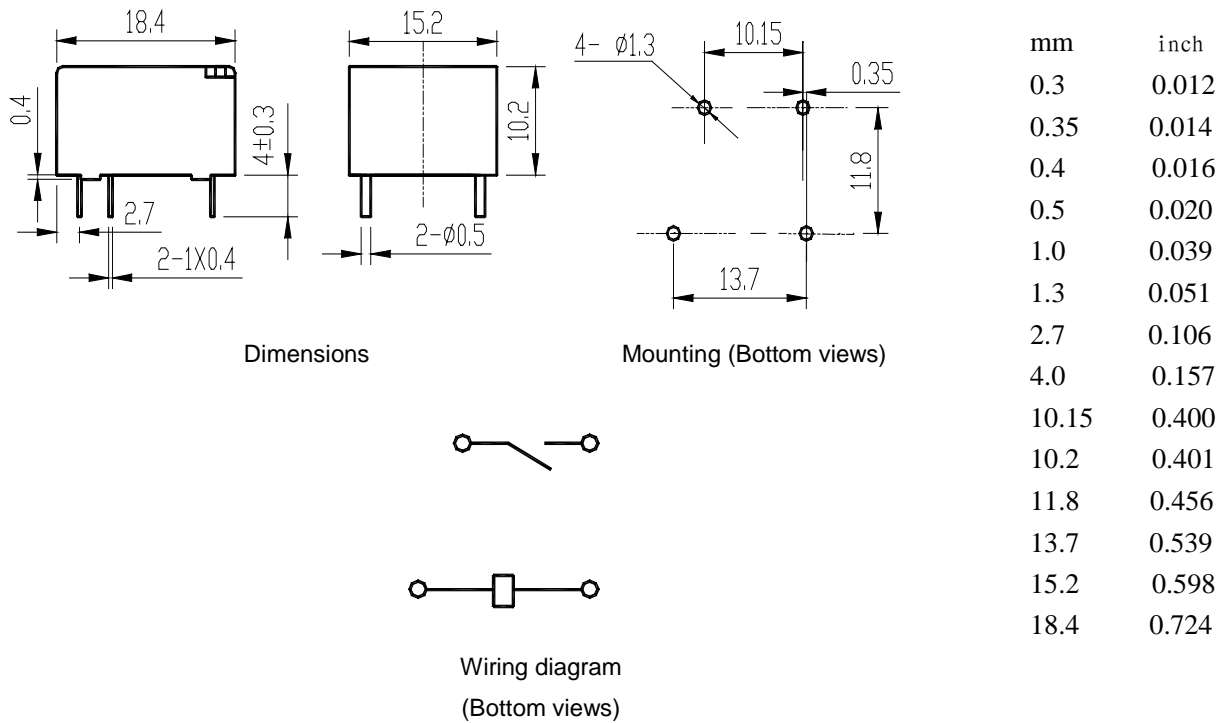
**Qualification inspection:**

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

**Safety approvals**

Safety approval	UL&CUR	TüV
Load	12A/125VAC 10A/277VAC 30VDC	12A/250VAC;30DC

**Dimensions (Unit: mm)**



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

**Reference Data**

