



15.7×12.3×14



CH0054067-2000

Patent No. 99206529.1



on Pending

**Features**

- Small size, light weight.
- Low coil consumption.
- PC board mounting.
- Suitable for household electrical appliance, automation system, electronic equipment, instrument, meter, telecommunication facilities and remote control facilities.

**Contact Data**

Contact Arrangement	1A, 1B, 1C
Contact Material	Ag·CdO Ag·SnO <sub>2</sub> Ag·SnO <sub>2</sub> ·In <sub>2</sub> O <sub>3</sub>
Contact Rating (resistive)	NO:20A/14VDC 10A/120VAC,5A/250VAC NC:15A/14VDC,10A/120VAC,5A/250VAC
Max. Switching Power	280W 1250VA
Max. Switching Voltage	42VDC 380VAC
Contact Resistance or Voltage drop	≤50mΩ
Operation life	Electrical 10 <sup>5</sup> Mechanical 10 <sup>7</sup>
	Max. Switching Current:20A Item 3.12 of IEC255-7 Item 3.30 of IEC255-7 Item 3.31 of IEC255-7

**Coil Parameter**

Coil voltage VDC		Coil resistance Ω±10%		Pickup voltage VDC(max) (80%of rated voltage )	release voltage VDC(min) (5% of rated voltage)	Coil power consumption W	Operate Time ms	Release Time ms
Rated	Max.							
6	6.6	60	45	4.8	0.20	0.6/0.8	≤10	≤5
9	9.9	135	102	7.2	0.45			
12	13.2	240	180	9.6	0.60			
24	26.4	960	720	19.2	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	100MΩ min (at 500VDC)	Item 7 of IEC255-5
Dielectric Strength		
Between contacts	50Hz 500V	Item 6 of IEC255-5
Between contact and coil	50Hz 500V	Item 6 of IEC255-5
Shock resistance	100m/s <sup>2</sup> 11ms	IEC68-2-27 Test Ea method 1
Vibration resistance	10~55Hz double amplitude 1.5mm	IEC68-2-6 Test Fc
Terminals strength	10N	IEC68-2-21 Test Ua1
Solderability	230℃ ±2℃ 10 ±0.5s	IEC68-2-20 Test Ta method 1
Ambient Temperature	-40~85℃	
Relative Humidity	85% (at 20℃)	IEC68-2-3Test Ca
Mass	6g	

**Qualification inspection:**

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

Ordering Information						
<b>NT78</b>	<b>A</b>	<b>S</b>	<b>10</b>	<b>DC12V</b>	<b>0.6</b>	Coil Power Consumption:0.6:0.6W,0.8:0.8W
						Coil rated DC Voltage 6V, 9V, 12V, 24V
						Contact rating 15A, 20A/14VDC 10A/120VAC,5A/250VAC
						S: Sealed type, NIL: Dust Cover(Cover)
Contact Arrangement: A: 1A; B: 1B; C: 1C						
Part number: NT78						

Dimensions (Unit: mm)		mm	inch
<p>Dimensions</p> <p>Mounting (Bottom views)</p> <p>Wiring diagram (Bottom views)</p>	0.4	0.016	
	0.5	0.020	
	1.1	0.043	
	1.3	0.051	
	1.4	0.055	
	1.45	0.057	
	2.5	0.098	
	3.5	0.138	
	5.0	0.197	
	10.2	0.401	
12.3	0.848		
14	0.551		
15.7	0.618		

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

