

# NT98



29 × 21.5 × 15.7

c us E174722 R50541395

## Features

- 50A switching capability.
- Max. Switching power can achieve 13850VA.
- Meets UL 508 standard, conforms to IEC61810-1 reinforced insulation.
- Approved by UL, TÜV and CQC.
- 5kV dielectric strength between the coil and contact, 8kV surge voltage.
- Operated in machine tool electric appliance, electric equipment, air conditioner and various household appliances.

## Ordering Information

**NT98** W A E S 0.9 DC12V  
 1 2 3 4 5 6 7

1 Part number: NT98

2 Common pin and N.O pin width: Nil:stand; W:3.3mm

3 Contact arrangement: A:1A

4 Enclosure: S: Wash tight<sup>1)</sup>; E: Flux proof

5 Contact material: S:AgSnO<sub>2</sub>

6 Coil power: 0.9:0.9W; 1.5:1.5W

7 Coil rated voltage(V): DC:5,6,9,12,24,48

1) Wash tight plastic case with knock off nib.

## Contact Data

Contact Arrangement	1A(SPSTNO)	
Contact Material	AgSnO <sub>2</sub>	
Contact Rating <sup>2)</sup> (Resistive)	0.9W	1.5W
	30A/277VAC 40A/277VAC	50A/277VAC
	TV-8 250VAC Motor load:1HP 125VAC	
Max. Switching Power	13850VA	
Max. Switching Voltage	480VAC	Max. Switching Current:50A
Contact Resistance	≤ 100mΩ (100mA/6VDC)	Item 4.12 of IEC 61810-7
Min. Recommended contact load	1A 12VAC/VDC	
Operation Life	Electrical	50A/277VAC (1.5W) 1×10 <sup>4</sup> 40A/277VAC 2×10 <sup>4</sup> 30A/277VAC 5×10 <sup>4</sup> 1HP 125VAC 1×10 <sup>5</sup> TV-8 250VAC 2.5×10 <sup>4</sup>
	Mechanical	1×10 <sup>7</sup> Item 4.31 of IEC 61810-7

2) Remove vent nib after soldering and cleaning.

## Coil Parameter

Dash numbers	Rated voltage VDC		Coil resistance $\Omega \pm 10\%$	Pick-up voltage VDC(max) (75% of rated voltage)	Drop-out voltage VDC(min) (10% of rated voltage)	Coil power W	Operate time ms	Release time ms
	Rated	Max						
005-900	5	6.5	28	3.75	0.5	0.9	$\leq 15$	$\leq 10$
006-900	6	7.8	40	4.50	0.6			
009-900	9	11.7	90	6.75	0.9			
012-900	12	15.6	160	9.00	1.2			
024-900	24	31.2	640	18.00	2.4			
048-900	48	62.4	2560	36.00	4.8			
005-1500	5	6.5	16.7	3.75	0.5	1.5	$\leq 15$	$\leq 10$
006-1500	6	7.8	24	4.50	0.6			
009-1500	9	11.7	54	6.75	0.9			
012-1500	12	15.6	96	9.00	1.2			
024-1500	24	31.2	384	18.00	2.4			
048-1500	48	62.4	1536	36.00	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.

## Safety Approvals

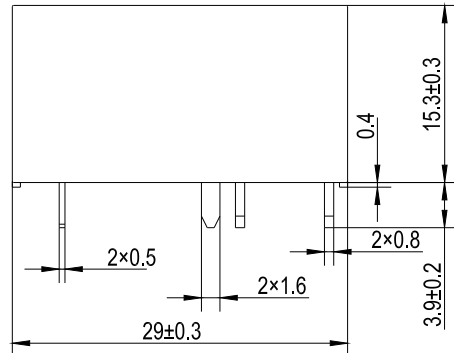
Safety approval	UL&CUR	TÜV
Load	50A/277VAC 40°C 6×10 <sup>3</sup> 40A/277VAC 40°C 2×10 <sup>4</sup> 30A/277VAC 85°C 5×10 <sup>4</sup> 1HP 125VAC 1×10 <sup>5</sup> TV-8 250VAC 2.5×10 <sup>4</sup>	50A/250VAC,277VAC 40°C 6×10 <sup>3</sup> 40A/250VAC,277VAC 40°C 2×10 <sup>4</sup> 30A/277VAC250VAC, 85°C 5×10 <sup>4</sup>

## Characteristics

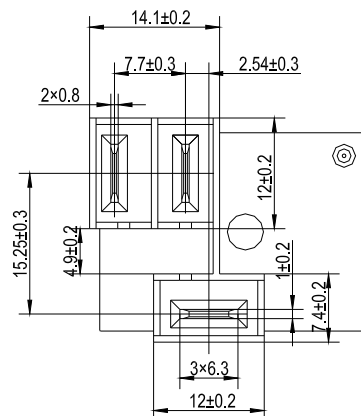
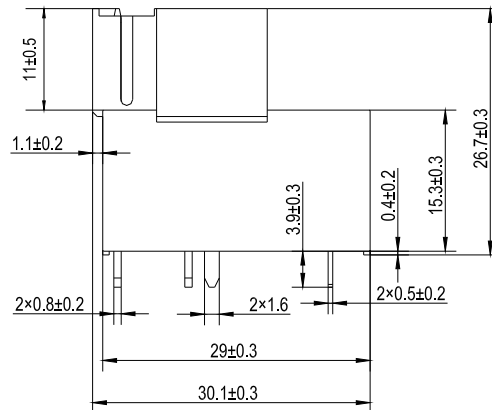
Insulation Resistance	1000M $\Omega$ min (at 500VDC)	Item 4.11 of IEC 61810-7
Dielectric Strength		
Between Contacts	50Hz 1500V	Item 4.9 of IEC 61810-7
Between Contact and Coil	50Hz 5000V	Item 4.9 of IEC 61810-7
Surge Voltage (between contact and coil)	8kV	Item 4.10 of IEC 61810-7
Clearance/Creepage	6.4mm/8.0mm	
Shock Resistance	Functional: 98m/s <sup>2</sup> 11ms Destructive: 980m/s <sup>2</sup> 11ms	Item 4.26 of IEC 61810-7 Item 4.26 of IEC 61810-7
Vibration Resistance	10Hz~55Hz Double amplitude 1.5mm	Item 4.28 of IEC 61810-7
Terminals Strength	10N	Item 4.24 of IEC 61810-7
Ambient Temperature	-40°C~105°C	
Relative Humidity	5% to 85%	Item 4.16 of IEC 61810-7
Mass	18g	Item 4.7 of IEC 61810-7

## Dimensions

mm



NT98



NT98T

## Dimensions

**CAUTION:** In case of no tolerance shown in outline dimension: outline dimension  $\leq 1\text{mm}$ , tolerance should be  $\pm 0.2\text{mm}$ ; outline dimension  $> 1\text{mm}$  and  $\leq 5\text{mm}$ , tolerance should be  $\pm 0.3\text{mm}$ ; outline dimension  $> 5\text{mm}$ , tolerance should be  $\pm 0.4\text{mm}$ .

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