



NT98

c  us E174722  R50541394

29 × 21.5 × 15.7

Features

- 50A switching capability.
- 5kV dielectric strength between the coil and contact, 8kV surge voltage.
- UL, TÜV approved.
- Meets UL 508 standard, conforms to IEC61810-1 reinforced insulation.
- Suitable for the machine tools, electrical equipment, air conditioning and various household appliances.
- Max. switching power can achieve 13850VA.

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; E: Flux proof

5 Contact material: S: AgSnO₂
 6 Coil power: 0.9:0.9W; 1.5:1.5W
 7 Coil rated voltage(V): DC:5,6,9,12,24,48

Contact Data

Contact Arrangement	1A(SPSTNO)	
Contact Material	AgSnO ₂	
Contact Rating ¹⁾	0.9W	1.5W
	30A/277VAC 40A/277VAC	50A/277VAC
	Motor load:1HP 125VAC Lamp load:TV-8 250VAC	
Max. Switching Power	13850VA	
Max. Switching Voltage	480VAC	Max. Switching Current:40A
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) 40°C 1×10 ⁴ 40A/480VAC 40°C 2×10 ⁴ 30A/277VAC 85°C 5×10 ⁴ 1HP 125VAC 1×10 ⁵ TV-8 250VAC 2.5×10 ⁴
	Mechanical	1×10 ⁷ Item 4.31 of IEC 61810-7

1) 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	≤ 15	≤ 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			
015-900	15	19.5	250	11.25	1.5			
018-900	18	23.4	360	13.50	1.8			
022-900	22	28.6	538	16.50	2.2			
024-900	24	31.2	640	18.00	2.4			
048-900	48	62.4	2560	36.00	4.8			
110-900	110	143	13445	82.50	11.0			

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.

Safety Approvals

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

Characteristics

Insulation Resistance	1000M Ω 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
Initial Insulation Voltage (between contact and coil)	8kV	Item 4.10 of IEC 61810-7
Clearance/Creepage	6.4mm/9.5mm(UL) 8.0mm/8.0mm(IEC)	
Shock Resistance	Functional: 98m/s ² 11ms Destructive: 980m/s ² 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



