



NT98

UL_{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 and CQC approved.
- Max. switching power can achieve 13850VA.
- Meets UL 508 standard, conforms to IEC61810-1 reinforced insulation.
- Suitable for the machine tools, electrical equipment, air conditioning 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	5 Contact material: S: AgSnO ₂
2 Common pin and NO pin width: Nil:standard; W:3.3mm	6 Coil power: 0.9:0.9W; 1.5:1.5W
3 Contact arrangement: A:1A	7 Coil rated voltage(V): DC:5,6,9,12,24,48
4 Enclosure: S:Wash tight; E:Flux proof	

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 TV-8 250VAC	
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	
Electrical Endurance	50A/277VAC(1.5W) 40℃ 1×10 ⁴ 40A/277VAC 40℃ 2×10 ⁴ 30A/277VAC 85℃ 5×10 ⁴ 1HP 125VAC 1×10 ⁵ TV-8 250VAC 2.5×10 ⁴ Item 4.30 of IEC 61810-7	
Mechanical Endurance	1×10 ⁷	Item 4.31 of IEC 61810-7

Notes: 1)The vent hole should be opened when testing enclosed relay.

Coil Parameter

DC Coil Parameter									
Coil 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.								
5	6.5	28	3.75	0.5	0.9	≤ 15	≤ 10		
6	7.8	40	4.50	0.6					
9	11.7	90	6.75	0.9					
12	15.6	160	9.00	1.2					
24	31.2	640	18.00	2.4					
48	62.4	2560	36.00	4.8					
5	6.5	16.7	3.75	0.5	1.5				
6	7.8	24	4.50	0.6					
9	11.7	54	6.75	0.9					
12	15.6	96	9.00	1.2					
24	31.2	384	18.00	2.4					
48	62.4	1536	36.00	4.8					

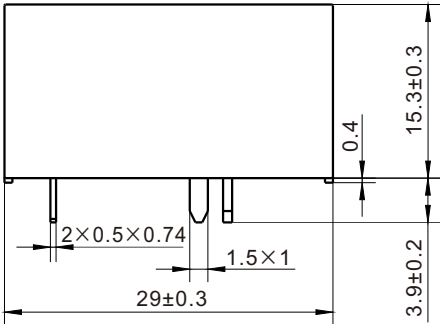
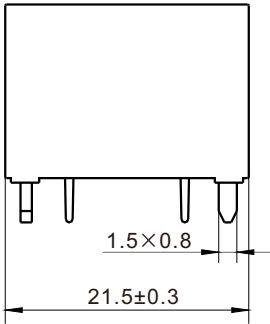
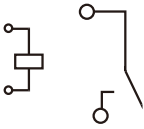
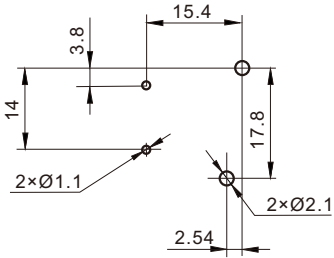
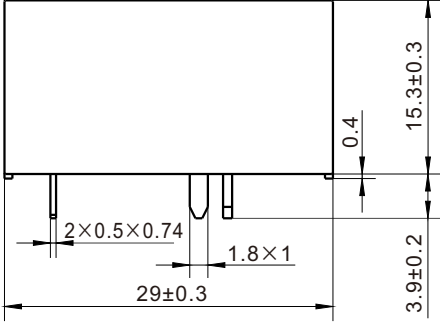
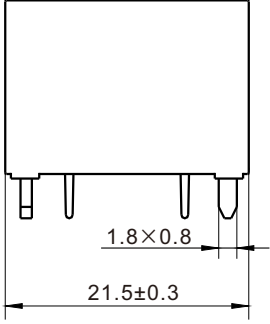
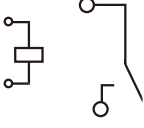
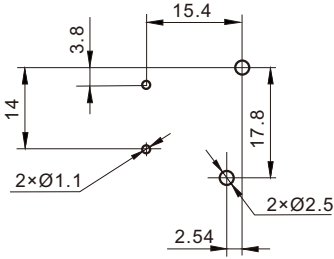
Notes: 1. The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.
2. Pick-up and drop-out voltage are for test purposes only and are not to be used as design criteria.

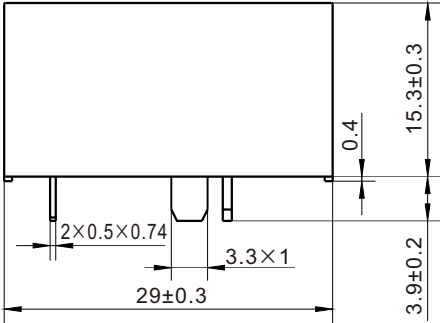
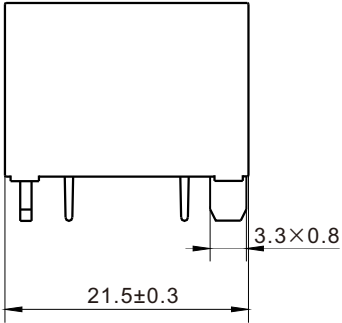
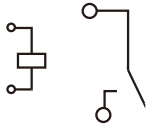
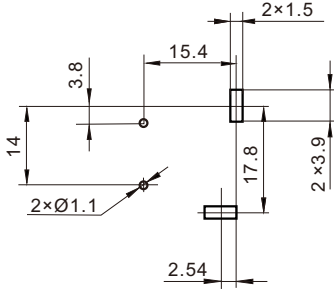
Characteristics

Insulation Resistance	1000M Ω min (at 500VDC)	Item 4.11 of IEC 61810-7
Dielectric Strength Between Open Contacts Between Contact and Coil	1500VAC 1min 5000VAC 1min	Item 4.9 of IEC 61810-7
Surge voltage (Between Contact and Coil)	8kV(1.2/50 μ s)	Item 4.10 of IEC 61810-7
Clearance/Creepage	6.4mm/8.0mm	
Shock Resistance	Functional: 98m/s ² 11ms	Item 4.26 of IEC 61810-7
	Destructive: 980m/s ² 11ms	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℃~105℃	
Relative Humidity	5% to 85%	Item 4.16 of IEC 61810-7
Weight (Approx.)	20g	Item 4.7 of IEC 61810-7

Safety Approvals

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

Dimensions	mm
30A&40A   Dimensions  Wiring diagram(Bottom view)  Mounting(Bottom view)	
50A   Dimensions  Wiring diagram(Bottom view)  Mounting(Bottom view)	
Common pin and NO pin width:Standard	

Dimensions	mm
Common pin and NO pin width: 3.3mm	
	
Dimensions	
	
Wiring diagram(Bottom view)	Mounting(Bottom view)
Remark: In case of no tolerance shown in outline dimension: outline dimension≤1mm,tolerance should be ±0.2mm ; outline dimension >1mm and ≤5mm, tolerance should be ±0.3mm; outline dimension >5mm, tolerance should be ±0.4mm.	