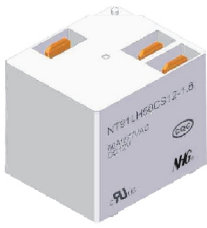
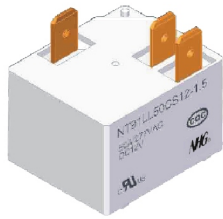


NT91L(50A)



32.4 × 27.5 × 28.5



32.4 × 27.5 × 20.5

 us E174722

Features

- Latching relay is with both single coil and two coils available.
- Contact switching capacity can achieve 50A.
- Energy-saving and environmental-friendly .

Ordering Information

NT91L L 50 C S 12 - 1.5 D
 1 2 3 4 5 6 7 8

- | | |
|---|---|
| 1 Part number: NT91L
2 High: H:Standard; L:Low profile type
3 Load: 50A/277VAC (Resistive load) ;
5000W 240VAC (Incandescent Lamp) ;
16A/280VAC (Electronic ballast) ;
5HP 250VAC (Motor load) | 4 Contact arrangement: A:1A; B:1B; C:1C
5 Enclosure: S: Sealed type; E: Covered;
6 Coil rated voltage(V): 5,12,24,48
7 Coil power consumption: 1.5:1.5W
8 Coil : NIL:Single coil; D: Double coils |
|---|---|

Contact Data

Contact Arrangement	1A (SPSTNO) 1B(SPSTNC) 1C(SPDT(B-M))
Contact Material	AgSnO ₂
Contact Rating	50A/277VAC 5 10 ⁴ OPS (Resistive load) ; 5000W 240VAC 3 10 ⁴ OPS (Incandescent Lamp) ; 16A/280VAC 6000 OPS (Electronic ballast) ; 5HP 250VAC 3 10 ⁴ OPS (Motor load) ;
Max. Switching Power	1500W 14000VA
Max. Switching Voltage	110VDC 300VAC Max. Switching Current:50A
Contact Resistance	≤ 20mΩ Item 4.12 of IEC 61810-7
Operation life	Electrical See contact rating Item 4.30 of IEC 61810-7
	Mechanical 10 ⁶ Item 4.31 of IEC 61810-7

Coil Parameter

Single Coil Parameter								
Dash numbers	Rated voltage VDC	Coil resistance Ω ± 10%	Switching voltage VDC (80%of rated voltage)	Operating voltage range VDC	Plus magnitude ms	Coil power	Operate Time ms	Reset Time ms
005-1500	5	16.7	4	5~6	≥ 50	1.5W	≤ 15	≤ 15
012-1500	12	96	9.6	12~14.4				
024-1500	24	384	19.2	24~28.8				
048-1500	48	1536	38.4	48~57.6				

NT91L(50A)

Double Coil Parameter								
Dash numbers	Rated voltage VDC	Coil resistance 10%	Switching voltage VDC (<80%of rated voltage)	Operating voltage range VDC	Plus magnitude ms	Coil powe W	Operate Time ms	Reset Time ms
005-3000	5	2x8.3	4	5~6				
012-3000	12	2x48	9.6	12~14.4				
024-3000	24	2x192	19.2	24~28.8	≥50	2X3.0W	≤15	≤15
048-3000	48	2x768	38.4	48~57.6				

CAUTION: 1.When latching relays are installed in equipment, the latch and reset coil should not be powered simultaneously. Coil should not be pulsed with less than the nominal coil voltage and pulse width should be a minimum of three times the specified operate time of the relay. If these conditions are not followed, it is possible for the relay to in be the magnetically neutral position .
2.Switching voltage is for test purpose only and are no to be used as design criteria.

Safety approvals

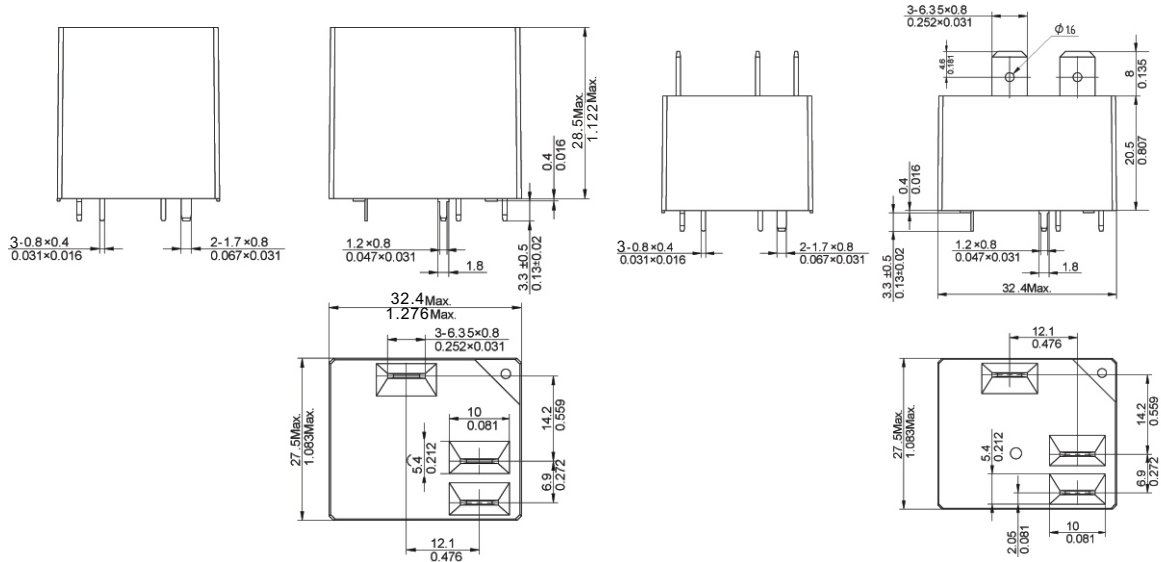
Safety approval	UL&CUR	CQC
Load	50A/277VAC	50A/277VAC

Operation condition

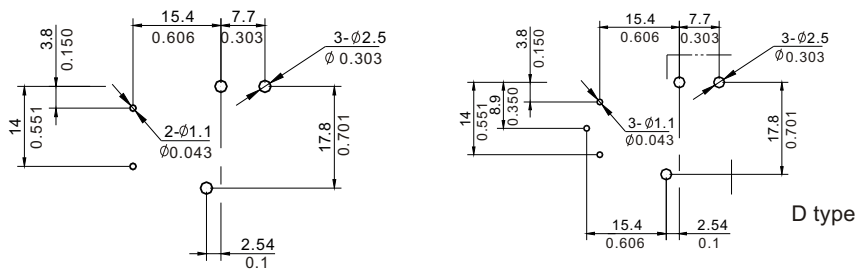
Insulation Resistance	1000MΩ min (at 500VDC)	Item 7 of IEC 60255-5
Dielectric Strength		
Between contacts	50Hz 1500V 1min	Item 6 of IEC 60255-5
Between contact and coil	50Hz 2500V 1min	Item 6 of IEC 60255-5
Shock resistance	200m/s ² 11ms	IEC 60068-2-27 Test Ea
Vibration resistance	10Hz~55Hz double amplitude 1.5mm	IEC 60068-2-6 Test Fc
Terminals strength	10N	IEC 60068-2-21 Test Ua1
Solderability	235°C±2°C 3s±0.5s	IEC 60068-2-20 Test Ta method 1
Ambient Temperature	-40°C~85°C	
Relative Humidity	85% (at 40°C)	IEC 60068-2-3 Test Ca
Mass	31g (Low profile type) 35g	

Dimensions

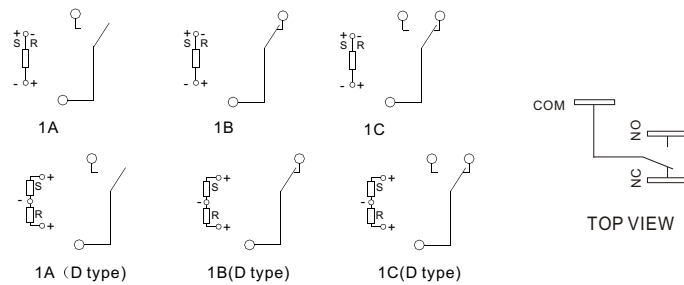
mm /inch



Dimensions



Mounting (Bottom view)



S:Set R:Reset

S:Set R:Reset

Wiring diagram(Bottom view)

NOTES 1).Dimensions are in millimeters.

2).Inch equivalents are given for general information only.

3).Relays shall have plus (+) or plus (-) and minus signs placed on the circuit diagram as shown.