

NT91L(50A)

c**51** us E174722

Features

- Single and double coils magnet latching relay available.
- Switching capacity up to 50A.
- Energy saving and environmental friendly product.

Ordering Information

<u>NT91L</u> <u>50</u> <u>C</u> <u>S</u> <u>12</u> - <u>1.5</u> <u>D</u> <u>L</u>

1 Part number: NT91L

2 Load: 50A/277VAC; Resistive load;

3000W 240VACJIncandescent Lamp; 16A/280VAC; Electronic ballast; 5HP 250VAC; Motor load; 3 Contact arrangement: A:1A; 1B:1B; C:1C 4 Enclosure: S: Wash tight; E: Flux proof 5 Coil rated voltage(V): 5,12,24,48

6 Coil power: 1.5:1.5W

7 Coil: NIL:Single coil; D: Double coils 8 High: H:Standard; L: Low profile type

Contact Data

Contact Arrangement		1A(SPSTNO) 1B(1A(SPSTNO) 1B(SPSTNC) 1C(SPDT(B-M))				
Contact Material		AgSnO ₂	AgSnO ₂				
Contact Rating(Resistive)		Electronic Ballast:	50A/277VAC Incandescent Lamp:3000W 240VAC Electronic Ballast:16A/280VAC Motor Load:5HP 250VAC				
Max. Switchin	Max. Switching Power						
Max. Switching Voltage		440VAC	Max. Switching Current:50A				
Contact Resistance		≤20mΩ	Item 4.12 of IEC 61810-7				
Operation	Electrical	5×10⁴	Item 4.30 of IEC 61810-7				
Life	Mechanical	1×10 ⁶	Item 4.31 of IEC 61810-7				

Coil Parameter

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

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2 Coils								
Dash numbers	Rated voltage VDC	Coil resistance Ω ± 10%	Set/Reset voltage VDC (80%of rated voltage)	Operating voltage range VDC	Plus duration ms	Coil power W	Set time ms	Reset time ms
005-3000 012-3000 024-3000 048-3000	5 12 24 48	2×8.3 2×48 2×192 2×768	4 9.6 19.2 38.4	5~6 12~14.4 24~28.8 48~57.6	≥50	2×3.0	≤15	≤15

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.

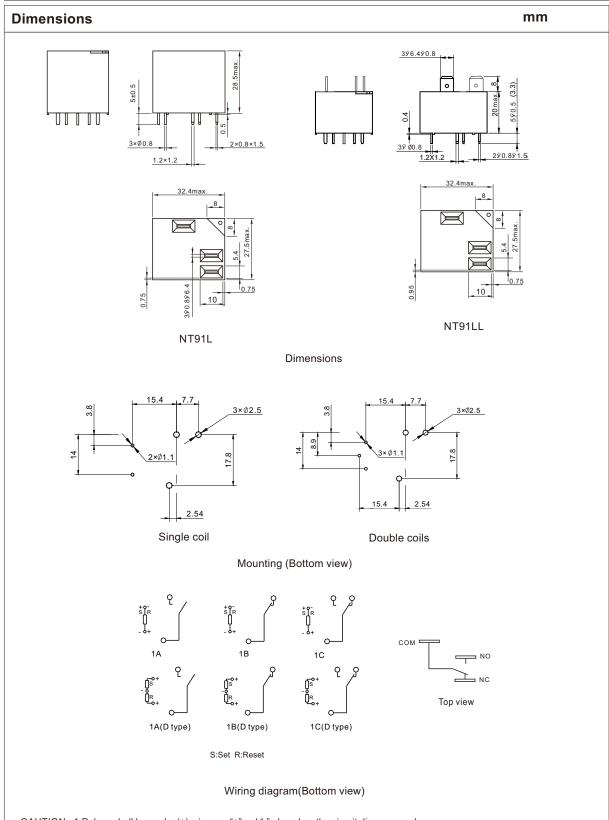
2. Switching voltage is for test purpose only and are no to be used as design criteria.

Safety Approvals

Safety approval	UL&CUR
Load	50A/277VAC

Characteristics

Insulation Resistance	1000M Ω min (at 500VDC)	Item 4.11 of IEC 61810-7
Dielectric Strength		
Between Contacts	50Hz 1500V 1min	Item 4.9 of IEC 61810-7
Between Contact and Coil	50Hz 2500V 1min	Item 4.9 of IEC 61810-7
Shock Resistance	196m/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℃~85℃	
Relative Humidity	5% to 85%	Item 4.16 of IEC 61810-7
Mass	31g (Low Profile Type) 35g	Item 4.7 of IEC 61810-7



CAUTION: 1.Relays shall have plus(+) signs or "+"and "-" placed on the circuit diagram as shown.

2.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.