

NT91L



32.4 × 27.5 × 28.5(20)

 US E160644

Features

- Single and double coils magnet latching relay available.
- Switching capacity up to 40A.
- Energy saving and environmental friendly product.

Ordering Information

NT91L 30 C S 12 - 0.9 L

1 Part number: NT91L	5 Coil rated voltage(V): 5, 12, 24, 48
2 Load: 30:30A; 40:40A	6 Coil power: 0.9:0.9W; Nil: 2×1.8W
3 Contact arrangement: A:1A; B:1B; C:1C	7 Coil: NIL:Single coil; D: Double coils
4 Enclosure: S: Wash tight; E: Flux proof	8 High: NIL:Standard; L:Low profile type

Contact Data

Contact Arrangement	1A(SPSTNO) 1B(SPSTNC) 1C(SPDT(B-M))	
Contact Material	AgSnO ₂	
Contact Rating	30A,40A/277VAC Incandescent lamp :3000W 240VAC Electronic ballast:5A/280VAC Motor load:2HP 250VAC	
Max. Switching Power	11000VA	
Max. Switching Voltage	440VAC	Max. Switching Current:40A
Contact Resistance	≤20mΩ	Item 4.12 of IEC 61810-7
Electrical Endurance	5×10 ⁴	Item 4.30 of IEC 61810-7
Mechanical Endurance	1×10 ⁶	Item 4.31 of IEC 61810-7

Coil Parameter

Dash numbers	Coil 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
1 Coil								
005-900	5	28	4	5~6	≥50	0.9	≤15	≤15
012-900	12	160	9.6	12~14.4				
024-900	24	640	19.2	24~28.8				
048-900	48	2560	38.4	48~57.6				
2 Coils								
005-1800	5	2×14	4	5~6	≥50	2×1.8	≤15	≤15
012-1800	12	2×80	9.6	12~14.4				
024-1800	24	2×320	19.2	24~28.8				
048-1800	48	2×1280	38.4	48~57.6				

Notes: 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 be in the magnetically neutral position .
2.Switching voltage is for test purpose only and are no to be used as design criteria.

Characteristics

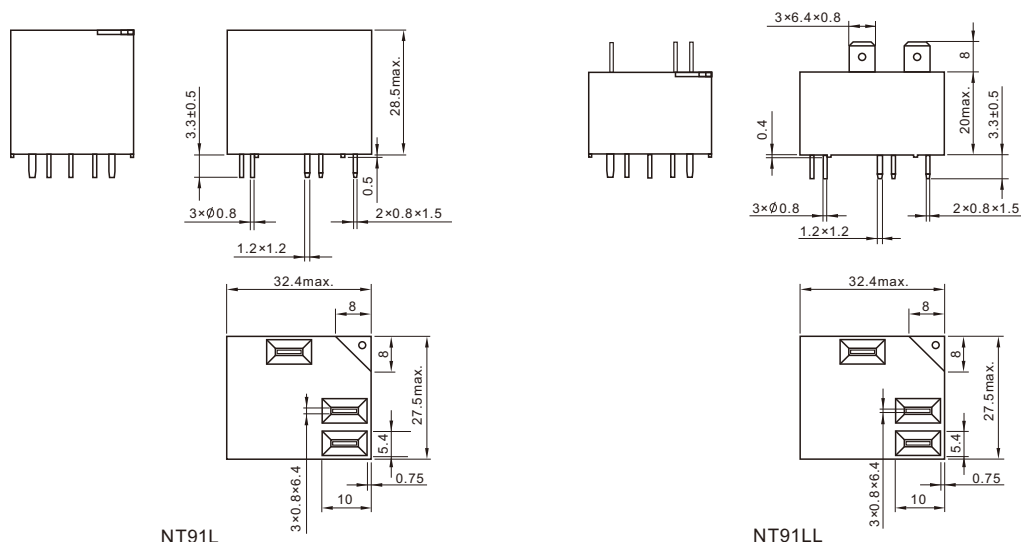
Insulation Resistance	1000MΩ min (at 500VDC)	Item 4.11 of IEC 61810-7
Dielectric Strength Between Contacts Between Contact and Coil	1500VAC 1min 2500VAC 1min	Item 4.9 of IEC 61810-7
Shock Resistance	196m/s ² 11ms	Item 4.26 of IEC 61810-7
Vibration Resistance	10Hz~55Hz Double amplitude 1.5mm	Item 4.28 of IEC 61810-7
Terminals Strength	10N	Item 4.24 of IEC 61810-7
Ambient Temperature	-40°C~85°C	
Relative Humidity	5% to 85%	Item 4.16 of IEC 61810-7
Weight (Approx.)	31g (Low profile type) 35g	Item 4.7 of IEC 61810-7

Safety Approvals

Safety approval	UL&CUR
Load	30A,40A/277VAC

Dimensions

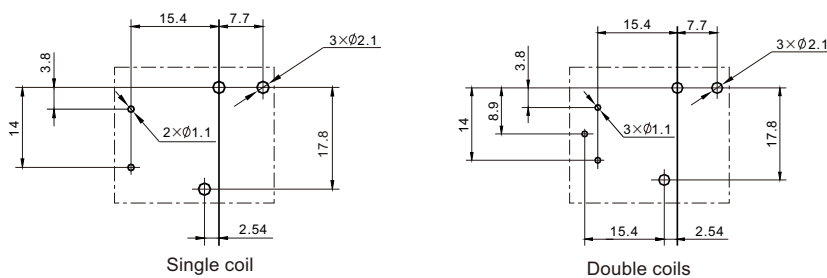
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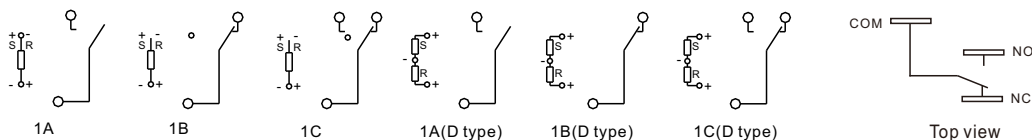
Dimensions



Single coil

Double coils

Mounting (Bottom view)



S:Set R:Reset

Wiring diagram(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.