

NT90L

c**51** us E174722

Features

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

Ordering Information

1 Part number: NT90L

2 Load: 30A,40A/277VAC; Resistive load; 3000W 240VAC; Incandescent Lamp;

5A/280VACJElectronic ballast; 2HP 250VAC; Motor load; 3 Contact arrangement: A:1A; B:1B; C:1C 4 Enclosure: S: Wash tight; E: Flux proof

5 Coil rated voltage(V): 5,12,24,48

6 Coil power: 0.9:0.9W

7 Coil: NIL:Single coil; D: Double coils

Contact Data

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Contact Arrangement		1A(SPSTNO) 1B(S	1A(SPSTNO) 1B(SPSTNC) 1C(SPDT(B-M))		
Contact Material		AgSnO ₂	AgSnO ₂		
Contact Rating (Resistive)		30A/277VAC			
		40A/277VAC	40A/277VAC		
		Incandescent Lamp	Incandescent Lamp :3000W 240VAC		
		Electronic Ballast:5	Electronic Ballast:5A/280VAC		
		Motor Load:2HP 25	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		
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

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
1 Coil								
005-900	5	28	4.0	5~6	≥50 0.9		≤15	≪15
012-900	12	160	9.6	12~14.4		0.0		
024-900	24	640	19.2	24~28.8		0.9		
048-900	48	2560	38.4	48~57.6				
2 Coil								
005-1800	5	2×14	4.0	5~6				
012-1800	12	2×80	9.6	12~14.4	≥50	0.9	≤15	≤15
024-1800	24	2×320	19.2	24~28.8				
048-1800	48	2×1280	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.

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 4000V(Without Pin 6) 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	25g(Unenclosed) 27g	Item 4.7 of IEC 61810-7

Safety Approvals

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

