NT90L

32.5×27.6×20.5
30×25×17(Unenclosed)

c UL us E160644 CQC 13002104039

Features

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

Ordering Information

NT90L	30	C	S	24	-	0.9	D
1	2	3	4	5		6	7

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

Contact Arrangement		1A(SPSTNO) 1B(SPSTNC) 1C(SPDT(B-M))	
Contact Material		$AgSnO_2$	
Contact Rating (Resistive)		30A/277VAC 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
Operation Life	Electrical	5×10^4	Item 4.30 of IEC 61810-7
	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				
024-900	24	640	19.2	24~28.8				
048-900	48	2560	38.4	48~57.6				
2 Coil								
005-1800	5	2×14	4.0	5~6	≥50	0.9	≤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				

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

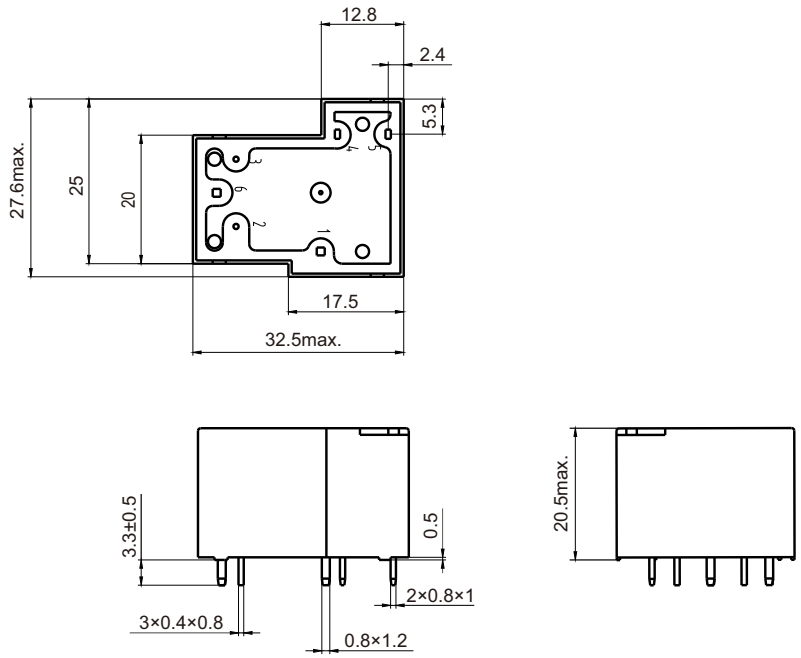
Insulation Resistance	1000MΩ min (at 500VDC)	Item 4.11 of IEC 61810-7
Dielectric Strength Between Contacts Between Contact and Coil	 50Hz 1500V 1min 50Hz 2500V 4000V(Without Pin 6) 1min	 Item 4.9 of IEC 61810-7 Item 4.9 of IEC 61810-7
Shock Resistance	196m/s^2 11ms	Item 4.26 of IEC 61810-7
Vibration 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

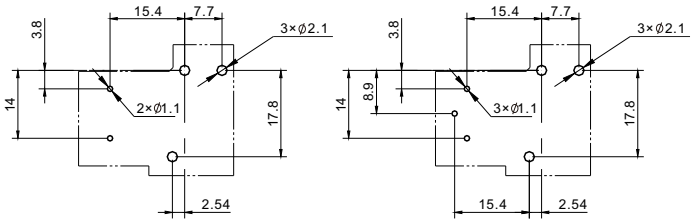
Safety approval	UL&CUR	CQC
Load	30A，40A/277VAC	30A，40A/277VAC

Dimensions

mm

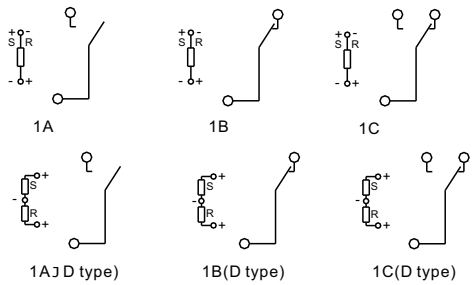


Dimensions



Single coil　　Double coils

Mounting (Bottom view)



S:Set R:Reset

Wiring diagram(Bottom view)

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.