



29×12.7×16.1

NT75L

UL US E158859 CQC 14002108148

Features

- Latching relay.
- Small size, lightweight and low coil power consumption.
- Dielectric strength (between contact and coil): 5kV.
- The parts are EN60669-1 standard compliance.
- The parts with IEC 60335-1 standard is available.
- Contact switching capacity is 20A.
- PC board mounting.

Ordering Information

NT75L C S D R G F DC12V

1 2 3 4 5 6 7 8

1 Part number: NT75L
 2 Contact arrangement: A:1A; C:1C
 3 Enclosure: S: Wash tight ; Z: Flux proof

4 Coil : NIL:Single coil ; D: double coils
 5 Polarity: Nil: standard ; R: reverse polarity
 6 Contact plating: NIL:Standard ; G:Gold plated
 7 Resist heat class : F:155℃
 8 Coil rated voltage(V): DC:3,5,6,9,12,24

Contact Data

Contact Arrangement	1A(SPSTNO) 1C(SPDT(B-M))
Contact Material	AgSnO ₂
Contact Rating(Resistive)	16A/250VAC (1 coil: 0.4W; 2 coil: 0.6W) Motor Load:1HP 240VAC Incandescent Lamp 1500W 277VAC TV-5 120VAC(1A)
Max. Switching Power	4000VA
Max. Switching Voltage	440VAC Max. Switching Current:20A
Contact Resistance	≤50mΩ Item4.12 of IEC61810-7
Operational Life	Electrical 5×10 ⁴ (NO:16A/250VAC 85V℃) Item 4.30 of IEC 61810-7
	Mechanical 2×10 ⁶ Item 4.31 of IEC 61810-7

CAUTION: 1.It only applies to the room temperature.

2.For gold plated version, the min. Switching current and min. switching voltage is 50mA/6VDC; for non gold plated version (standard type),the min. switching current and min. switching voltage is 100mA/6VDC.

Coil Parameter

Dash numbers	Rated voltage VDC	Coil resistance Ω ±10%	Set/Reset voltage VDC (70% of rated voltage)	Pulse duration ms	Coil power W	Set time ms	Reset time ms
1 Coil							
003-400	3	22.5	2.1	≥30	0.4	≤10	≤10
005-400	5	62.5	3.5				
006-400	6	90	4.2				
009-400	9	202.5	6.3				
012-400	12	360	8.4				
024-400	24	1440	16.8				
2 Coils							
003-600	3	2×15	2.1	≥30	2×0.6	≤10	≤10
005-600	5	2×42	3.5				
006-600	6	2×60	4.2				
009-600	9	2×135	6.3				
012-600	12	2×240	8.4				
024-600	24	2×960	16.8				

- 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 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	50Hz 1000V 50Hz 5000V	Item 4.9 of IEC 61810-7 Item 4.9 of IEC 61810-7
Creepage Distance	8.4mm	
Shock Resistance	Functional: 98m/s ² 11ms	Item 4.26 of IEC 61810-7
	Destructive: 980m/s ² 11ms	Item 4.26 of IEC 61810-7
Vibration Resistance	10Hz~150Hz 10g/5g	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
Mass	13g	Item 4.7 of IEC 61810-7

Safety Approvals

Safety approval	UL&CUR	CQC
Load	16A/250VAC	16A/250VAC

Dimensions

mm

