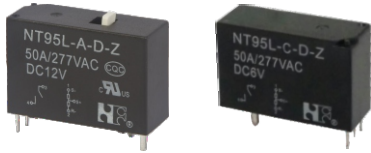


# FORWARD RELAYS



39 × 15 × 25.6

# NT95L

UL US E158859 CEC 14002116012

## Features

- Single and double coils magnet latching relay available.
- Switching capacity up to 50A.
- PC board mounting.

## Ordering Information

**NT95L** A D Z R DC12V

1 2 3 4 5 6

1 Part number: NT95L

2 Contact arrangement: A:1A; C:1C

3 Coil: Nil:Single coil; D:Double coils

4 Enclosure: Z: Flux proof; S: Wash tight

5 Polarity: Nil: Standard; R: Reverse polarity

6 Coil rated voltage(V): DC:6,9,12,24,48

## Contact Data

Contact Arrangement	1A(SPSTNO); 1C(SPDT(B-M))	
Contact Material	AgSnO <sub>2</sub>	
Contact Rating(Resistive)	50A/277VAC Motor Load:5HP 240VAC Incandescent Lamp 5000W 240VAC; Inductive:16A/277VAC	
Max. Switching Power	1A:13850VA ; 1C:12500VA	
Max. Switching Voltage	440VAC	Max. Switching Current:50A
Contact Resistance	≤20mΩ	Item 4.12 of IEC 61810-7
Operational Life	Electrical	1A:1 × 10 <sup>5</sup> 1C:3 × 10 <sup>4</sup> 6 × 10 <sup>4</sup> (Inductive:16A/277VAC) Item 4.30 of IEC 61810-7
	Mechanical	5 × 10 <sup>6</sup> Item 4.31 of IEC 61810-7

**CAUTION:** 1.For the intermediate current(10mA/6VDC~100mA/28VDC), it only applies to the room temperature.

## Coil Parameter

Dash numbers	Rated voltage VDC	Coil resistance Ω ± 10%	Set/Reset voltage VDC (80% of rated voltage )	Pulse duration ms	Coil power W	Set time ms	Reset time ms
1 Coil							
006-1500	6	24	4.8	≥50	1.5	≤15	≤15
009-1500	9	54	7.2				
012-1500	12	96	9.6				
024-1500	24	384	19.2				
048-1500	48	1536	38.4				
2 Coils							
006-3000	6	2 × 12	4.8	≥50	2 × 3.0	≤15	≤15
009-3000	9	2 × 27	7.2				
012-3000	12	2 × 48	9.6				
024-3000	24	2 × 192	19.2				
048-3000	48	2 × 768	38.4				

**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 $\Omega$ min (at 500VDC)	Item 4.11 of IEC 61810-7
Dielectric Strength Between Contacts Between Contact and Coil	50Hz 1500V 50Hz 4000V	Item 4.9 of IEC 61810-7 Item 4.9 of IEC 61810-7
Creepage Distance	1A: 8mm; 1C: 6mm	
Shock Resistance	Functional: 98m/s <sup>2</sup> 11ms Destructive: 980m/s <sup>2</sup> 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 $^{\circ}$ C~70 $^{\circ}$ C	
Relative Humidity	5% to 85%	Item 4.16 of IEC 61810-7
Mass	1A: 25g; 1C: 29g	Item 4.7 of IEC 61810-7

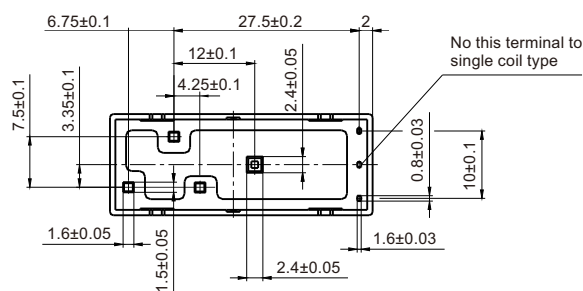
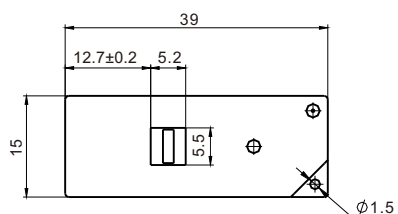
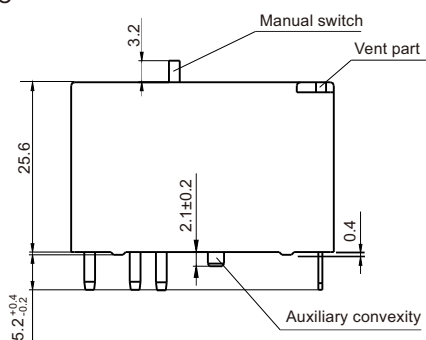
## Safety Approvals

Safety approval	UL&CUR	CQC
Load	1A: 50A/277VAC	1A: 50A/277VAC

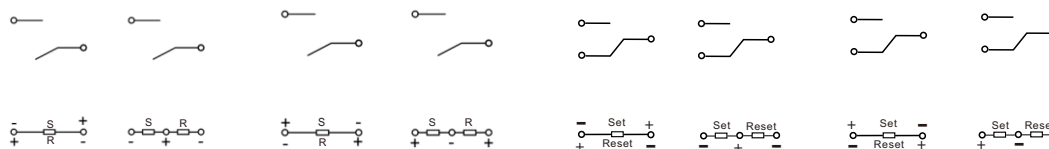
## Dimensions

mm

1C



Mounting (Bottom view)



Standard

Reverse polarity

Standard

Reverse polarity

1A

S: Set  
R: Reset

1C

Wiring diagram (Bottom view)

**CAUTION:** In case of no tolerance shown in outline dimension: outline dimension  $\leq 1$ mm, tolerance should be  $\pm 0.2$ mm; outline dimension  $> 1$ mm and  $\leq 5$ mm, tolerance should be  $\pm 0.3$ mm; outline dimension  $> 5$ mm, tolerance should be  $\pm 0.4$ mm.