



39×15×30.2

NT96L

Features

- Latching relay.
- 100A contact switching capability.
- Max. Inrush current of 500A/2ms.
- DC load capability of 100A/60VDC.
- Electrical endurance capability: breaking under 2000A for 0.3ms for 300 times.
- Suitable for smart home, PV, automatic equipment, smart meter, etc.

Ordering Information

NT96L A D Z R L S DC12V

1 2 3 4 5 6 7 8

1 Part number: NT96L

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 Type of load: Nil: AC rating; L:DC rating

7 Contact gap: Nil: Standard; S:1.5mm¹⁾

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

Notes: 1) 1.5mm contact gap only applies to A type.

Contact Data

Contact Arrangement	1A(SPSTNO) 1C(SPDT(B-M))	
Contact Material	AgSnO ₂	
	1A	1C
Contact Rating	90A/277VAC:1×10 ⁴ 100A/60VDC:1×10 ⁴	70A/277VAC:3×10 ⁴ 3HP 277VAC:3×10 ⁴ 20A/277VAC(Standard ballast):3×10 ⁴ 16A/277VAC(Electronic ballast):3×10 ⁴
Max. Switching Power	6000W 30800VA	
Max. Switching Voltage	440VAC	Max. Switching Current:100A
Contact Resistance	≤10mΩ(1A/24VDC)	Item 4.12 of IEC 61810-7
Electrical Endurance	Refer to the table for the rating details	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 $\Omega \pm 10\%$	Set/Reset voltage VDC (80% of rated voltage)	Pulse duration ms	Coil power W	Set time ms	Reset time ms
1 Coil							
006-3000	6	12	4.8	≥ 50	3	≤ 15	≤ 15
009-3000	9	27	7.2				
012-3000	12	48	9.6				
024-3000	24	192	19.2				
048-3000	48	768	38.4				
2 Coils							
006-6000	6	2×6	4.8	≥ 50	2×6	≤ 15	≤ 15
009-6000	9	2×13.5	7.2				
012-6000	12	2×24	9.6				
024-6000	24	2×96	19.2				
048-6000	48	2×384	38.4				

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.

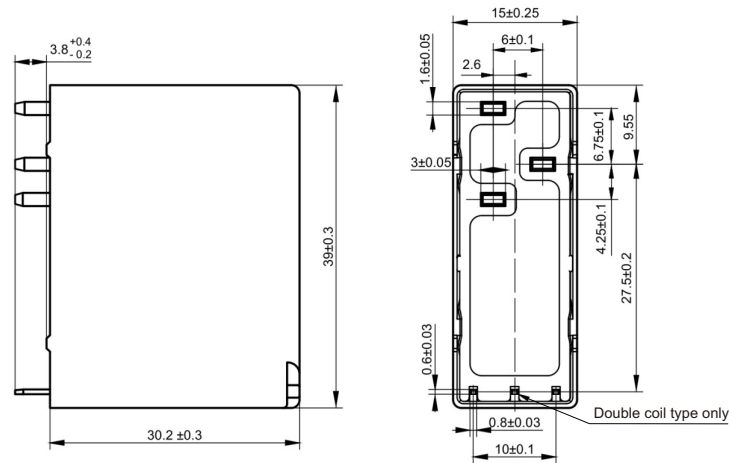
2.Switching voltage is for test purpose only and are not to be used as design criteria.

Characteristics

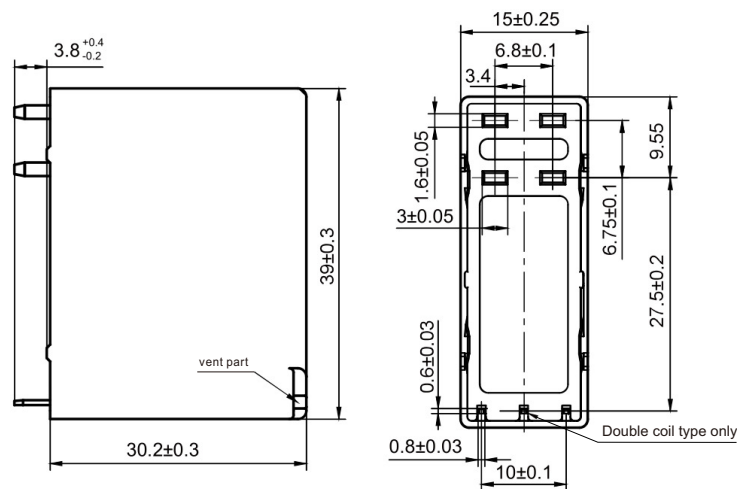
Insulation Resistance	1000M Ω min (at 500VDC)	Item 4.11 of IEC 61810-7
Dielectric Strength Between Contacts Between Contact and Coil	1500VAC 1min 4000VAC 1min	Item 4.9 of IEC 61810-7
Creepage Distance	8mm	
Shock Resistance	Functional: 98m/s ² 11ms Destructive: 980m/s ² 11ms	Item 4.26 of IEC 61810-7
Vibration Resistance	10Hz~55Hz Double amplitude 1.5mm	Item 4.28 of IEC 61810-7
Ambient Temperature	-40℃~70℃	
Relative Humidity	5% to 85%	Item 4.16 of IEC 61810-7
Weight (Approx.)	40g	Item 4.7 of IEC 61810-7

Dimensions

mm



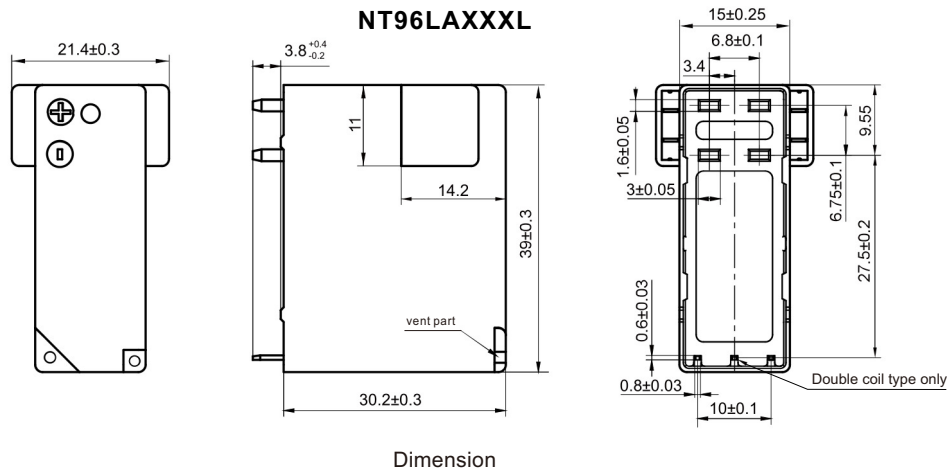
NT96LC



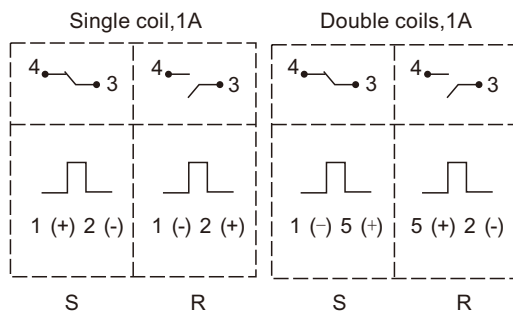
NT96LA

Dimensions

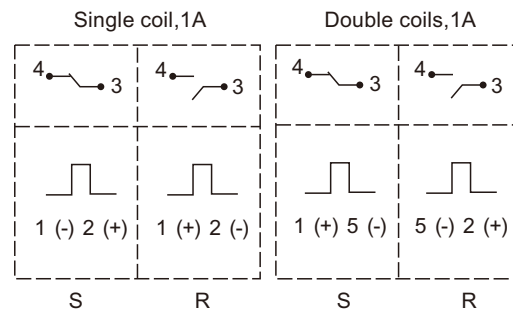
mm



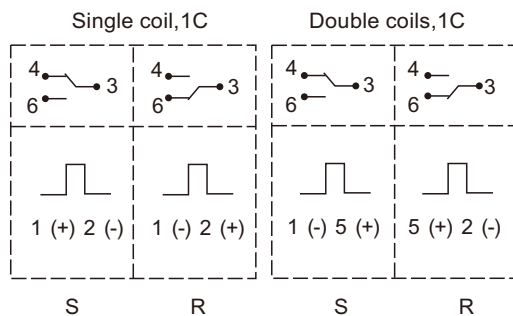
Standard polarity



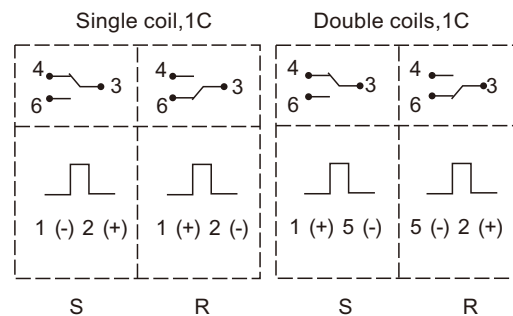
Reverse polarity



Standard polarity



Reverse polarity



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.