


15.0×7.5×9.4 15.0×7.5×9.8

N X

c UL us on Pending

Features

- DIL pitch terminals .Surface mount type with "L" shaped teminal;
- Conforms to FCC Part 68 2.5kV Surge and Dielectric 2000VAC;
- High contact capacity 2A/30VDC;
- Application for Telecommunication Equipment、Office Equipment、 Security Alarm Systems、 Measuring instruments、 Medical Monitoring Equipment、Audio Visual Equipment、 Flight Simulator、Sensor Control。

Ordering Information

NX	2	SA	L	H	12
1	2	3	4	5	6

1 Part number：NX2
2 Contact arrangement：2:2C
3 Mount：NIL:DIL；SA: Standard SMT；
SL: High connection reliability SMT
4 Operating Function：Nil: Single Side Stable；
L:1 Coil Latching
5 Terminal：NIL: Standard SMT；Standard PCB
6 Coil rated Voltage(V)：DC:3,4.5,5,6,9,12,24

Contact Data

Contact Arrangement		2C（DPDT(B-M)）	
Contact Material		Silver alloy(Gold clad)	
Contact Rating (resistive)		2A/30VDC	
Max. Switching Power		60W	Min. Switching load：0.01mA/10mV（Reference Value）
Max. Switching Voltage		220VDC	Max. Switching Current:2A
Contact Resistance or Voltage drop		≤70mΩ(80 mΩSMT)	Item 3.12 of IEC255-7
Operation life	Electrical	1A/30VDC：5×10^5	
		2A/30VDC：1×10^5	Item 3.30 of IEC255-7
	Mechanical	10^8	Item 3.31 of IEC255-7

CAUTION:

Relays previously tested or used above 10mA resistive at 6V maximum （DC or peak AC） open circuit are not recommended for subsequent use in low level applications.

Coil Parameter

Dash Numbers	Coil voltage VDC		Coil resistance Ω±10%	Pick up voltage VDC(max) (75%of rated voltage)	Release voltage VDC(min) (10% of rated voltage)	Coil power W	Operate Time ms	Release /Reset Time ms
	Rated	Max.						
NX2-003	3	4.5	64.3	2.25	0.3	0.14		
NX2-004	4.5	6.7	145	3.38	0.45	0.14		
NX2-005	5	7.5	178	3.75	0.5	0.14		
NX2-006	6	9.0	257	4.50	0.6	0.14	≤4	≤4
NX2-009	9	13.5	579	6.75	0.9	0.14		
NX2-012	12	18.0	1028	9.00	1.2	0.14		
NX2-024	24	36.0	4114	18.0	2.4	0.14		
1 Coil Latching					Reset(Max)			Reset
NX2L-003	3	4.5	90	2.25	-2.25	0.10		
NX2L-004	4.5	6.7	202.5	3.38	-3.38	0.10		
NX2L-005	5	7.5	250	3.75	-3.75	0.10		
NX2L-006	6	9.0	360	4.50	-4.50	0.10	≤4	≤4
NX2L-009	9	13.5	810	6.75	-6.75	0.10		
NX2L-012	12	18.0	1440	9.00	-9.00	0.10		
NX2L-024	24	36.0	5760	18.0	-18.0	0.10		

Coil Parameter

Dash Numbers	Coil voltage VDC		Coil resistance Ω±10%	Pick up voltage VDC(max) (75%of rated voltage)	Release voltage VDC(min) (10% of rated voltage)	Coil power W	Operate Time ms	Release /Reset Time ms
	Rated	Max.						
NX2SA-003	3	4.5	64.3	2.25	0.3	0.14		
NX2SA-004	4.5	6.7	145	3.38	0.45	0.14		
NX2SA-005	5	7.5	178	3.75	0.5	0.14		
NX2SA-006	6	9.0	257	4.50	0.6	0.14	≤4	≤4
NX2SA-009	9	13.5	579	6.75	0.9	0.14		
NX2SA-012	12	18.0	1028	9.00	1.2	0.14		
NX2SA-024	24	36.0	4114	18.0	2.4	0.14		
1 Coil Latching					Reset(Max)			Reset
NX2SAL-003	3	4.5	90	2.25	-2.25	0.10		
NX2SAL-004	4.5	6.7	202.5	3.38	-3.38	0.10		
NX2SAL-005	5	7.5	250	3.75	-3.75	0.10		
NX2SAL-006	6	9.0	360	4.50	-4.50	0.10	≤4	≤4
NX2SAL-009	9	13.5	810	6.75	-6.75	0.10		
NX2SAL-012	12	18.0	1440	9.00	-9.00	0.10		
NX2SAL-024	24	36.0	5760	18.0	-18.0	0.10		
NX2SL-003	3	4.5	64.3	2.25	0.3	0.14		
NX2SL-004	4.5	6.7	145	3.38	0.45	0.14		
NX2SL-005	5	7.5	178	3.75	0.5	0.14		
NX2SL-006	6	9.0	257	4.50	0.6	0.14	≤4	≤4
NX2SL-009	9	13.5	579	6.75	0.9	0.14		
NX2SL-012	12	18.0	1028	9.00	1.2	0.14		
NX2SL-024	24	36.0	4114	18.0	2.4	0.14		
1 Coil Latching					Reset(Max)			Reset
NX2SLL-003	3	4.5	90	2.25	-2.25	0.10		
NX2SLL-004	4.5	6.7	202.5	3.38	-3.38	0.10		
NX2SLL-005	5	7.5	250	3.75	-3.75	0.10		
NX2SLL-006	6	9.0	360	4.50	-4.50	0.10	≤4	≤4
NX2SLL-009	9	13.5	810	6.75	-6.75	0.10		
NX2SLL-012	12	18.0	1440	9.00	-9.00	0.10		
NX2SLL-024	24	36.0	5760	18.0	-18.0	0.10		

CAUTION: 1.The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.

2.Pickup and release voltage are for test purposes only and are not to be used as design criteria.

3.When latching relays are installed in equipment, the latch and reset coil should not be pulsed 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 .

4.Unless otherwise stated, the rated coil voltage specified in coil parameter and its suitable polarity(if applicable)shall be used for all tests and its application to the relay.

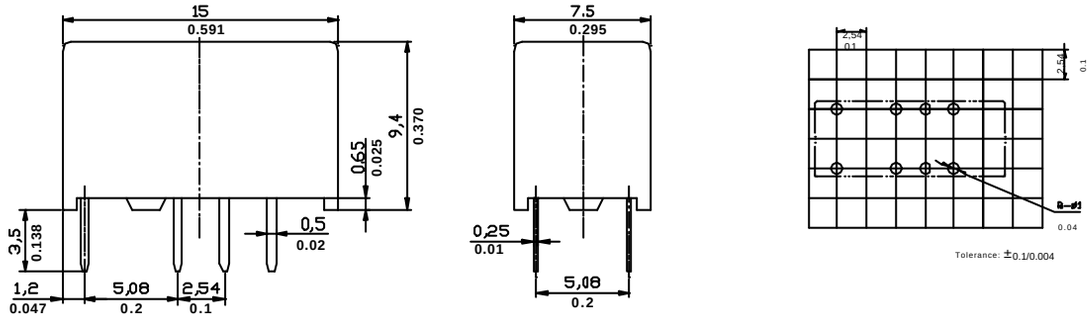
Characteristics

Insulation Resistance	1000MΩ min (at 500VDC)	Item 7 of IEC255-5
Dielectric Strength		
Between open Contacts	1000VAC 1min	Item 6 of IEC255-5
Between coil & Contacts	2000VAC 1min	Item 6 of IEC255-5
Between Contact Poles	1000VAC 1min	Item 6 of IEC255-5
Surge Withstand Voltage		
Between open Contacts	1500V	FCC68
Between coil & Contacts	2500V	FCC68
Shock resistance	Functional:750m/s^2 11ms; Survival:1000 m/s^2 6ms	IEC68-2-27 Test Ea
Vibration resistance	10~55Hz Double amplitude Functional:3.3mm Survival:5mm	IEC68-2-6 Test Fc
Terminals strength	5N	IEC68-2-21 Test Ua1
Solderability	235℃±2℃ 3±0.5s	IEC68-2-20 Test Ta method 1
Temperature Range	-40~85℃(-40~185 ° F)	
Relative Humidity	5% to 85%	
Mass	2g	

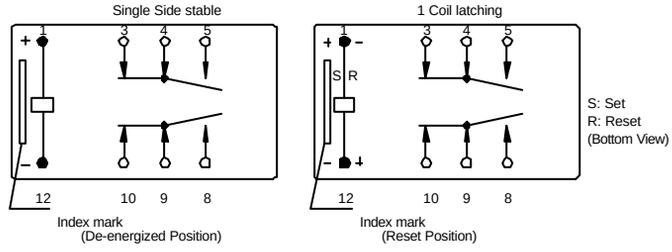
Qualification inspection:

Perform the qualification test as specified in the table Ⅳ of IEC255-19-1 and minimum sample size 24.

Dimensions mm/inch



Dimensions Mounting (Bottom views)



Wiring diagram(Bottom views)

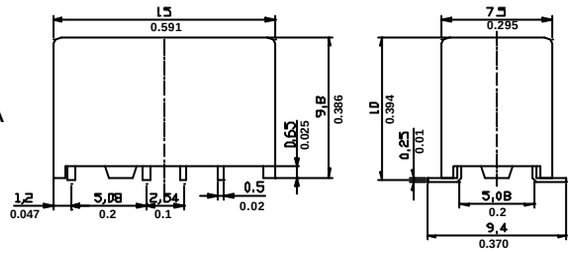
NOTES 1).Dimensions are in millimeter.

2).Inch equivalents are given for general information only.

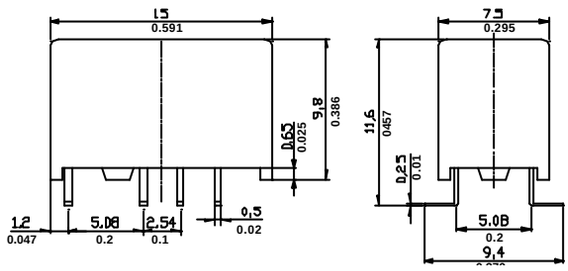
Dimensions

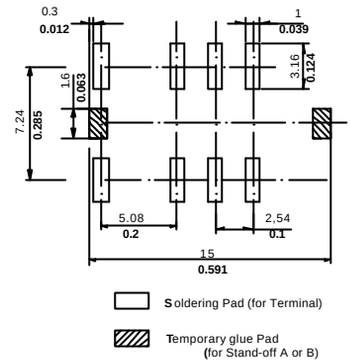
mm/inch

SA



SL





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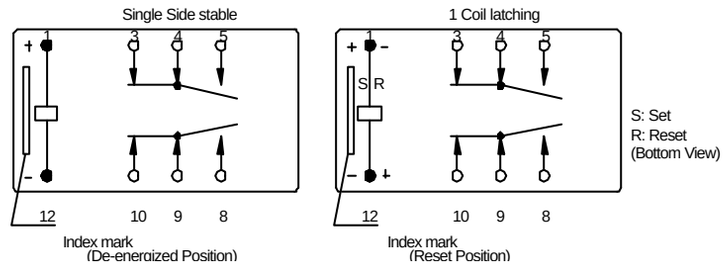

Wiring diagram(Bottom views)

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