

N V 2 3 1

23.8×12.9×9.9

Features

- Small size, light weight（8g）。
- Withstands high temperature, operational under 85℃ ambient temperature.
- Heavy contact load switching current up to 30A.

Ordering Information

NV231	2C	Z	S	DC12V	0.57
1	2	3	4	5	6

1 Part number：NV231
2 Contact arrangement：2A:2A；2C:2C
3 Enclosure：S: Sealed type；Z: Dust cover
4 Mounting：NIL: Standard；S: SMT
5 Coil rated Voltage(V)：DC:10,12
6 Coil power consumption：0.55:0.55W；0.57:0.57W

Contact Data

Contact Arrangement	2A（DPSTNO）、2C（DPDT(B-M)）	
Contact Material	Ag·SnO_2 Ag·Ni	
Contact Rating	Resistive：2A:20A/14VDC 2C:NO:20A/14VDC; NC:15A/14VDC Inductive:1.0mH On 18A(NO)13A(NC)/14VDC Off:8A/14VDC	
Max. Switching Power	280W	
Max. Switching Voltage	24VDC	Max. Switching Current:30A
Contact Resistance or Voltage drop	≤30mV (at 10A)	Item 3.12 of IEC255-7
Operation life — Electrical	10^5	Item 3.30 of IEC255-7
Operation life — Mechanical	10^7	Item 3.31 of IEC255-7

Coil Parameter

Dash Numbers	Coil voltage VDC		Coil resistance Ω±10%	Pickup voltage VDC(max) (57%of rated voltage)	release voltage VDC(min) (12.5% of rated voltage)	Coil power consumption W	Operate Time ms	Release Time ms
	Rated	Max.						
010-550	10	12	2×181	5.7	1.25	2×0.55	≤3	≤1.5
012-570	12	14.4	2×254	6.9	1.5	2×0.57	≤3	≤1.5

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.

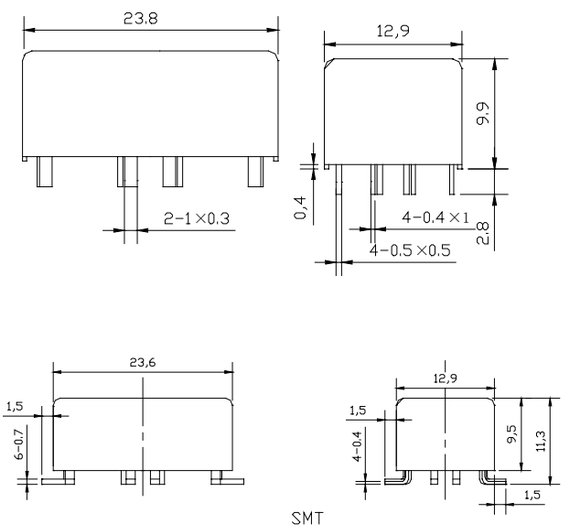
Operation condition

Insulation Resistance	1000MΩ min (at 500VDC)	Item 7 of IEC255-5
Dielectric Strength		
Between contacts	50Hz 500V	Item 6 of IEC255-5
Between contact and coil	50Hz 500V	Item 6 of IEC255-5
Shock resistance	300m/s² 6ms	IEC68-2-27 Test Ea
Vibration resistance	10~500Hz double amplitude 1.27mm 60m/s²	IEC68-2-6 Test Fc
Terminals strength	10N	IEC68-2-21 Test Ua1
Solderability	235℃ ±2℃ 3±0.5s	IEC68-2-20 Test Ta method 1
Ambient Temperature	-40~85℃	
Relative Humidity	85% (at 20℃)	IEC68-2-3Test Ca
Mass	8g	

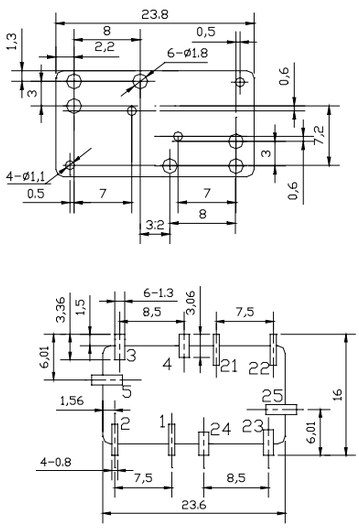
Qualification inspection:

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

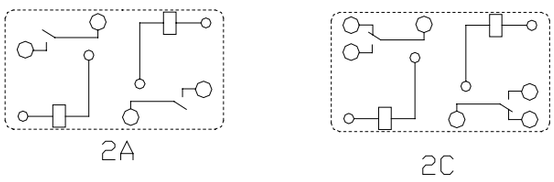
Dimensions (Unit: mm)



Dimensions



Mounting (Bottom views)



Wiring diagram (Bottom views)

mm	inch
0.3	0.012
0.4	0.016
0.5	0.020
0.6	0.024
0.7	0.027
0.8	0.031
1.0	0.039
1.1	0.043
1.3	0.051
1.5	0.059
1.56	0.061
1.8	0.071
2.2	0.087
2.8	0.110
3.0	0.118
3.06	0.120
3.2	0.126
3.36	0.132
6.01	0.237
7.0	0.275
7.2	0.283
7.5	0.295
8	0.315
8.5	0.335
9.5	0.374
9.9	0.390
11.3	0.445
12.9	0.508
23.6	0.929
23.8	0.937

NOTES 1).Dimensions are in millimeter.

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