



NV231



23.8x12.9x9.9

Features

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

Ordering Information

NV231 2C Z S DC12V 0.57

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5 6

1 Part number: NV231

4 Mounting: NIL: Standard; S: SMT

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

5 Coil rated Voltage(V): DC:10,12

3 Enclosure: S: Sealed type; Z: Dust cover

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·SnO₂ Ag·Ni

Contact Rating

Resistive: 2A:20A/14VDC

Max. Switching Power

2C:NO:20A/14VDC; NC:15A/14VDC

Max. Switching Voltage

280W

Contact Resistance or Voltage drop

24VDC

Max. Switching Current:30A

Operation life | Electrical Mechanical

≤30mV (at 10A)

Item 3.12 of IEC255-7

10⁵

Item 3.30 of IEC255-7

10⁷

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.

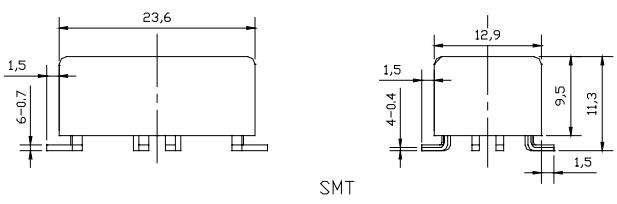
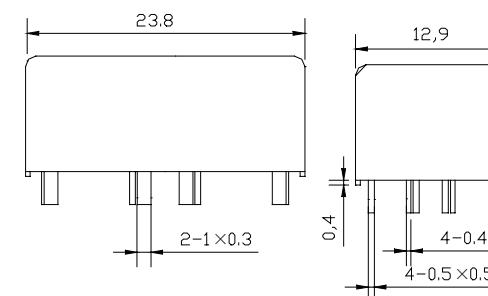
Operation condition

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/s ² 6ms	IEC68-2-27 Test Ea
Vibration resistance	10~500Hz double amplitude 60m/s ²	IEC68-2-6 Test Fc
Terminals strength	10N	IEC68-2-21 Test Ua1
Solderability	235°C ±2°C 3 ± 0.5s	IEC68-2-20 Test Ta method 1
Ambient Temperature	-40~85°C	
Relative Humidity	85% (at 20°C)	IEC68-2-3Test Ca
Mass	8g	

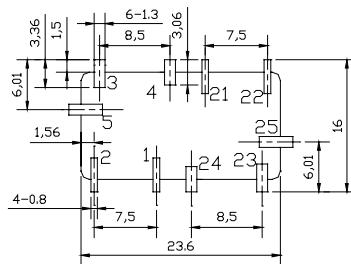
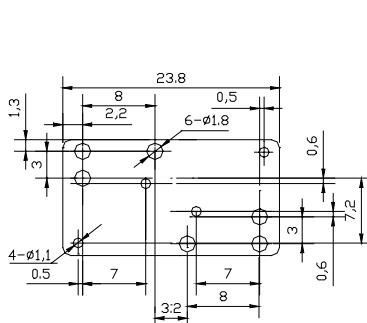
Qualification inspection:

Perform the qualification test as specified in the table IV of IEC6255-19-1 and minimum sample size 24.

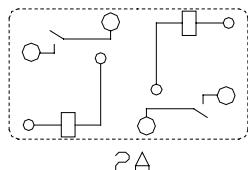
Dimensions (Unit: mm)



Dimensions



Mounting (Bottom views)



20

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

Wiring diagram (Bottom views)

NOTES 1).Dimensions are in millimeter.

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