



# NV231

23.8×12.9×9.9

## Features

- Small size, light weight (8g)。
- Withstands high temperature, operational under 105°C ambient temperature.
- Heavy contact load switching current up to 30A.

## Contact Data

Contact Arrangement	2A, 2C	
Contact Material	Ag·SnO <sub>2</sub> Ag·Ni	
Contact Rating	Resistive: 2A:20A/14VDC 2C:NO:20A/14VDC; NC:15A/14VDC Inductive:1.0mH On 20A/14VDC off:8A/14VDC	
Max. Switching Power	280W	Max. Switching Current:30A
Max. Switching Voltage	24VDC	Item 3.12 of IEC255-7
Contact Resistance or Voltage drop	≤30mV (at 10A)	Item 3.30 of IEC255-7
Operation life	Electrical	10 <sup>5</sup>
	Mechanical	10 <sup>7</sup>

## Coil Parameter

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.						
10	12	2×181	5.7	1.25	2×0.55	≤3	≤1.5
12	14.4	2×254	6.9	1.5	2×0.57		

**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.

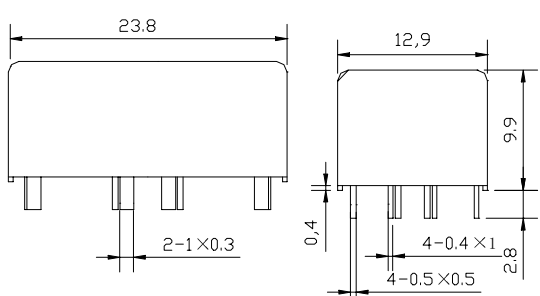
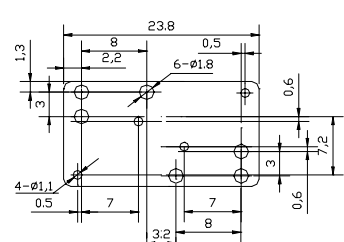
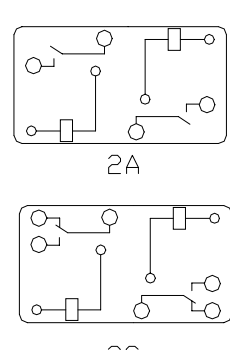
## Operation condition

Insulation Resistance	1000MΩ min (at 500VDC)	Item 7 of IEC255-5
Dielectric Strength	Between contacts	Item 6 of IEC255-5
	Between contact and coil	Item 6 of IEC255-5
Shock resistance	300m/s <sup>2</sup> 6ms	IEC68-2-27 Test Ea method 1
Vibration resistance	10~500Hz double amplitude 1.27mm 60m/s <sup>2</sup>	IEC68-2-6 Test Fc
Terminals strength	10N	IEC68-2-21 Test Ua1
Solderability	230°C ±2°C 10 ±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 IEC255-19-1 and minimum sample size 24.

Ordering Information					
NV231	2A	Z	DC12V	0.55	
					Coil Power Consumption:0.55:2 × 0.55W,0.57:2 × 0.57W
					Coil rated DC Voltage 10V、12V
					S: Sealed type, Z: Dust Cover
					Contact Arrangement:2A:2A;2C:2C
					Part number: NV231

Dimensions (Unit: mm)			mm	inch
 <p>Dimensions</p>	 <p>Mounting (Bottom views)</p>	0.3	0.012	
		0.4	0.016	
		0.5	0.020	
		0.6	0.024	
		1.1	0.043	
		1.3	0.051	
		1.8	0.071	
		2.2	0.087	
		2.8	0.110	
		3.0	0.118	
		7.0	0.275	
		7.2	0.283	
		8	0.315	
		9.9	0.390	
		12	0.472	
		12.9	0.508	
		23.8	0.937	
	 <p>Wiring diagram (Bottom views)</p>			

NOTES 1).Dimensions are in millimeter.

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