



23.8×12.9×9.9

# NV231

Patent No.: 01139153.7,01274370.4

### Features

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

### Ordering Information

**NV231** **2C** **Z** **S** **DC12V** **N** **0.57**  
 1 2 3 4 5 6 7

- |  |  |
|--|--|
| 1 Part number: NV231                       | 5 Coil rated voltage(V): DC:10,12                |
| 2 Contact arrangement: 2A:2A; 2C:2C        | 6 Contact material: N:AgNi;S:AgSnO <sub>2</sub>  |
| 3 Enclosure: S: Sealed type; Z: Dust cover | 7 Coil power consumption: 0.55:0.55W; 0.57:0.57W |
| 4 Mounting: NIL: Standard; S: SMT          |  |

### Contact Data

Contact Arrangement	2A (DPSTNO) ,2C (DPDT(B-M))	
Contact Material	AgSnO <sub>2</sub> AgNi	
Contact Rating	Resistive: 2A:20A/14VDC 2C:NO:20A/14VDC; NC:15A/14VDC	
Max. Switching Power	280W	
Max. Switching Voltage	24VDC	Max. Switching Current:30A
Contact Resistance or Voltage drop	<30mV (at 10A)	Item 4.12 of IEC 61810-7
Operation life	Electrical	10 <sup>5</sup> Item 4.30 of IEC 61810-7
	Mechanical	10 <sup>7</sup> Item 4.31 of IEC 61810-7

### Coil Parameter

Dash Numbers	Coil voltage VDC		Coil resistance Ω ±10%	Pick up voltage VDC(max) (58%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

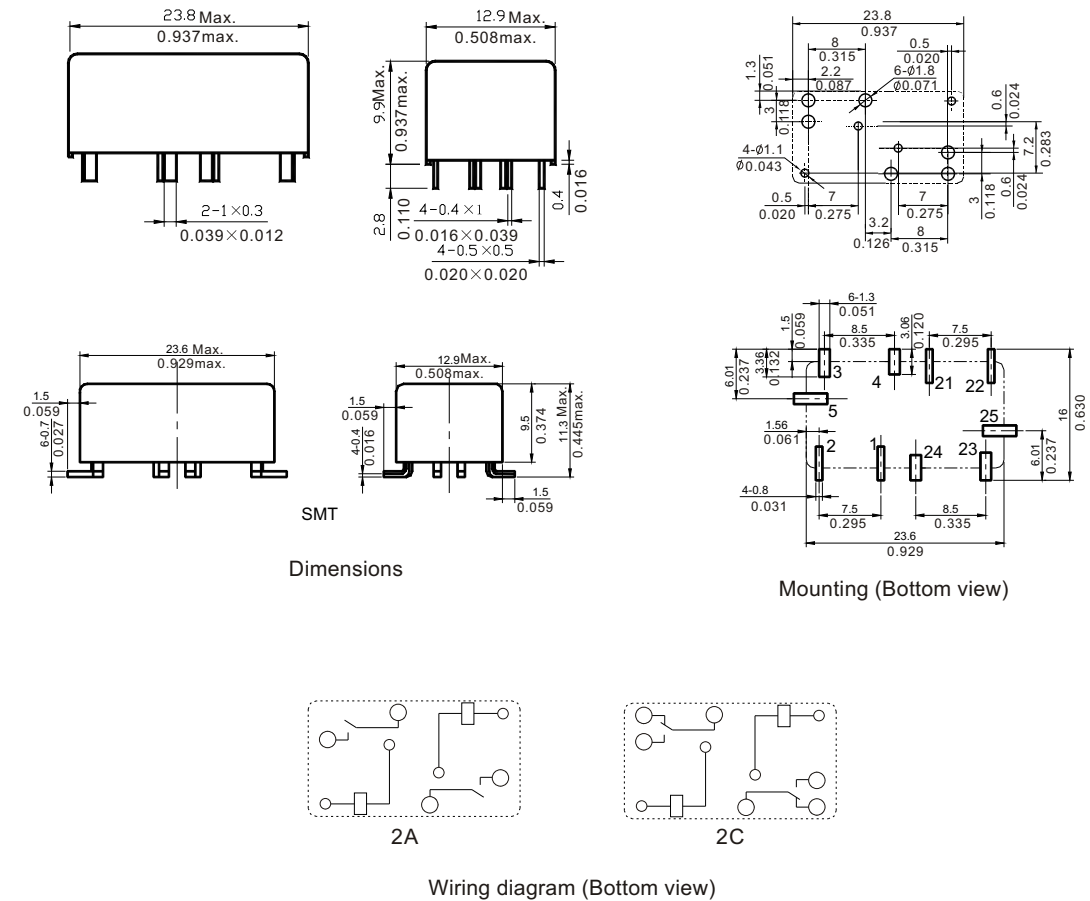
**CAUTION:** 1.The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.  
 2.Pickup and release voltage are for test purposes only and are not to be used as design criteria.

### Operation condition

Insulation Resistance	1000MΩ min (at 500VDC)	Item 7 of IEC 61810-5
Dielectric Strength	50Hz 500V	Item 6 of IEC 61810-5
Between contacts	50Hz 500V	Item 6 of IEC 61810-5
Between contact and coi	50Hz 500V	
Shock resistance	300m/s <sup>2</sup> 6ms	IEC68-2-27 Test Ea
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	235°C ± 2°C 3 ± 0.5s	IEC68-2-20 Test Ta method 1
Ambient Temperature	-40~105°C	
Relative Humidity	85% (at 20°C)	IEC68-2-3Test Ca
Mass	8g	

### Dimensions

mm /inch



NOTES 1).Dimensions are in millimeters.  
 2).Inch equivalents are given for general information only.