23.8×12.9×9.9

NV231

Patent No.: 01139153.7,01274370.4

Features

- Small size, lightweight（8g）。
- Withstands high temperature, operating under 105℃ 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
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 Contact material：N:AgNi;S:$AgSnO_2$
7 Coil power consumption：0.55:0.55W；0.57:0.57W

Contact Data

Contact Arrangement		2A（DPSTNO）,2C（DPDT(B-M)）	
Contact Material		$AgSnO_2$ 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	10^5	Item 4.30 of IEC 61810-7
	Mechanical	10^7	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	⩽4	⩽1.5
012-570	12	14.4	2×254	6.9	1.5	2×0.57	⩽4	⩽1.5

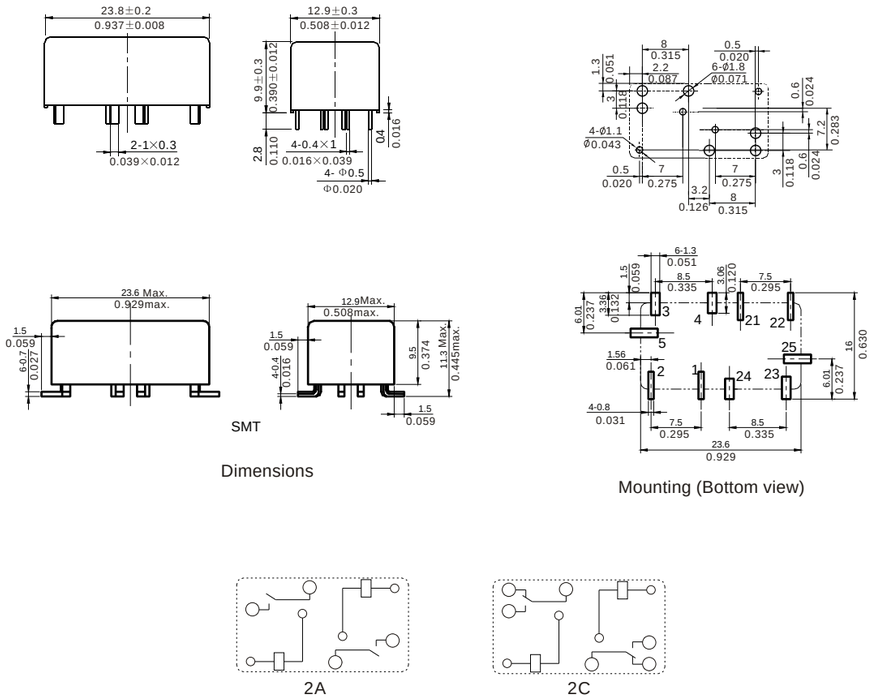
CAUTION: 1.The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.
2.Pickup and release voltage are for test purposes only and are not to be used as design criteria.

Operation condition

Insulation Resistance	1000MΩ min (at 500VDC)	Item 7 of IEC 60255-5
Dielectric Strength Between contacts Between contact and coi	 50Hz 500V 50Hz 500V	 Item 6 of IEC 60255-5 Item 6 of IEC 60255-5
Shock resistance	300m/s² 6ms	IEC 68-2-27 Test Ea
Vibration resistance	10~500Hz double amplitude 1.27mm 60m/s²	IEC 68-2-6 Test Fc
Terminals strength	10N	IEC 68-2-21 Test Ua1
Solderability	235℃ ±2℃ 3±0.5s	IEC 68-2-20 Test Ta method 1
Ambient Temperature	-40~105℃	
Relative Humidity	85% (at 20℃)	IEC 68-2-3Test Ca
Mass	8g	

Dimensions

mm /inch



Wiring diagram (Bottom view)

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