

NV231



23.6×12.9×9.9

Features	
▪ Small size, lightweight (8g) .	
▪ Withstands high temperature, operating under 105°C ambient temperature.	
▪ Heavy contact load switching current up to 30A.	
▪ Suitable for automobile and lamp accessories application.	

Ordering Information	
NV231 <u>2C</u> <u>Z</u> <u>S</u> <u>20</u> <u>DC12V</u> <u>N</u> <u>0.57</u> 1 2 3 4 5 6 7 8	
1 Part number: NV231	5 Contact current(A): 20:20A; 30:30A
2 Contact arrangement: 2A:2A; 2C:2C	6 Coil rated voltage(V): DC:10,12,24
3 Enclosure: S: Sealed type; Z: Dust cover	7 Contact material: N:AgNi;S:AgSnO ₂
4 Mounting: NIL: Standard; S: SMT	8 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:30A,20A/14VDC 2C:NO:30A,20A/14VDC; NC:25A,15A/14VDC
Max. Switching Power	420W
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

CAUTION: 1.For the intermediate current, it only applies to the room temperature.

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
024-570	24	28.8	2 × 1010	13.8	3			

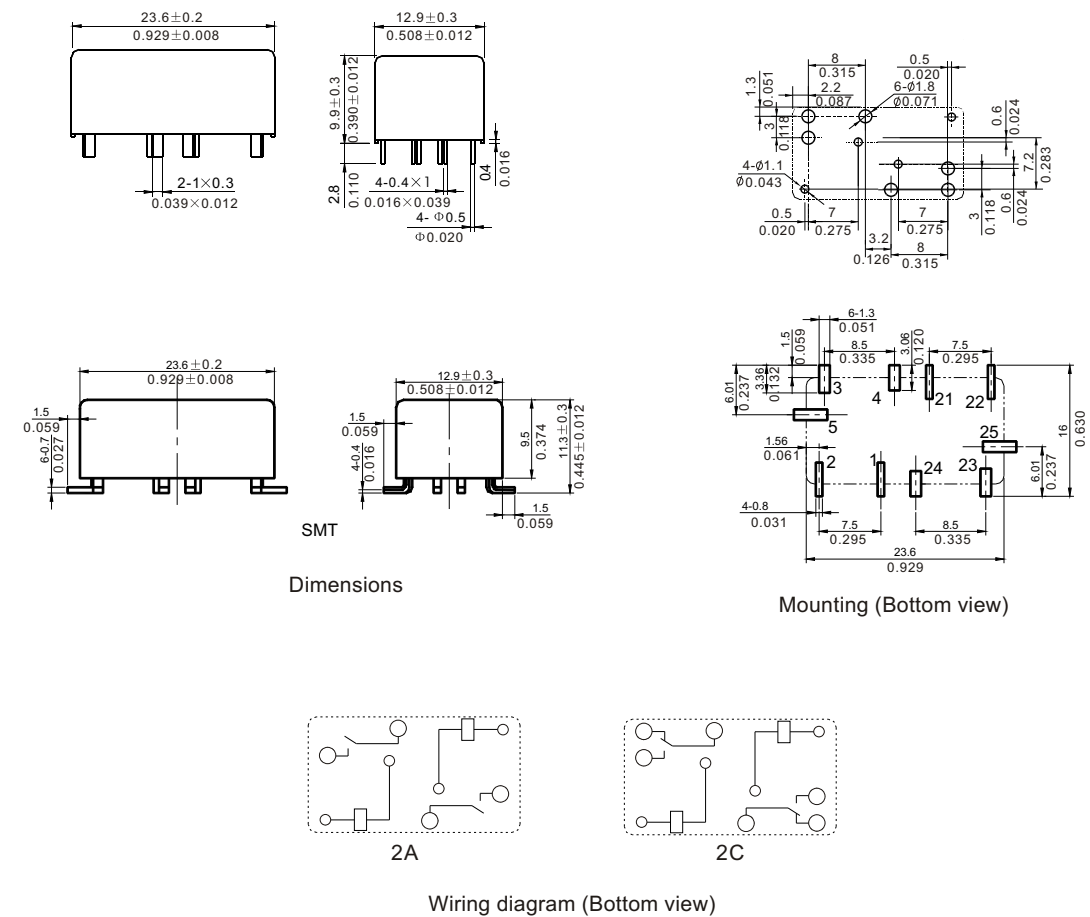
CAUTION: 1.The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.
2.Pickup and release voltage are for test purposes only and are not to be used as design criteria.

Operation condition

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

Dimensions

mm /inch



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