NV23K



12×12.9×9.9

Features

- Small size, lightweight（4g）。
- Withstands high temperature, operating under 105℃ ambient temperature.
- Heavy contact load switching current up to 30A.

Ordering Information

NV23K	Q	C	Z	S	30	DC12V	N	0.57
1	2	3	4	5	6	7	8	9

1 Part number：NV23K
2 Noise：NIL: Standard；Q: Quiet
3 Contact arrangement：A:1A；C:1C
4 Enclosure：S: Sealed type；Z: Dust cover
5 Mounting：NIL: Standard；S: SMT
6 Contact current:30:30A;20:20A
7 Coil rated voltage(V)：DC:10,12
8 Contact material：N:AgNi;S:$AgSnO_2$
9 Coil power consumption：0.55:0.55W；0.57:0.57W

Contact Data

Contact Arrangement		1A（SPSTNO）,1C（SPDT(B-M)）
Contact Material		$AgSnO_2$ AgNi
Contact Rating		Resistive：1A:30A,20A/14VDC 1C:NO:30A,20A/14VDC; NC:25A,15A/14VDC
Max. Switching Power		420W
Max. Switching Voltage		24VDC Max. Switching Current:30A
Max. carrying current		NO:40A for 2 minutes,30A for 1 hour(12VDC at 20℃); 35A for 2 minutes,25A for 1hour(12VDC at 85℃)
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%	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	181	5.7	1.25	0.55	⩽3	⩽1.5
012-570	12	14.4	254	6.9	1.5	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.

Sound Pre. Characteristics (Q type):

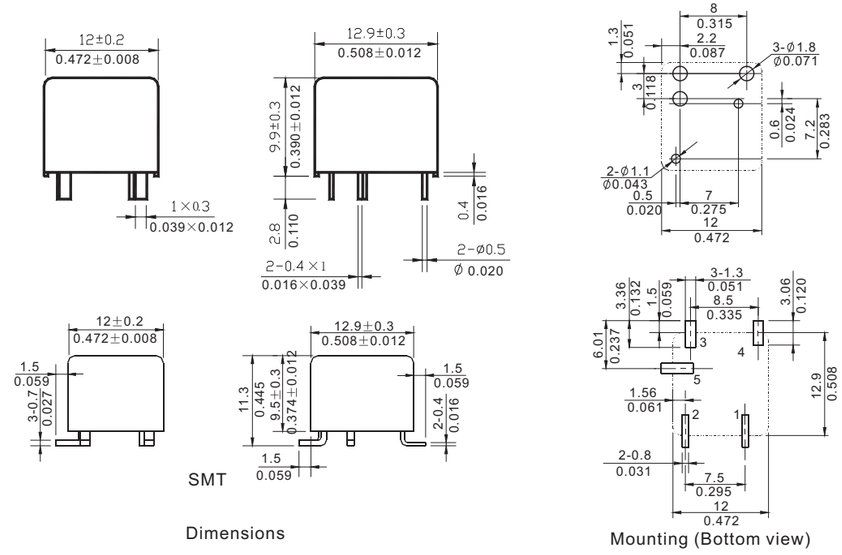
Operation noise：<50db
Coil voltage :12VDC

Operation condition

Insulation Resistance	1000MΩ min (at 500VDC)	Item 7 of IEC 61810-5
Dielectric Strength Between contacts Between contact and coil	 50Hz 500V 50Hz 500V	 Item 6 of IEC 61810-5 Item 6 of IEC 61810-5
Shock resistance	300m/s² 6ms	IEC68-2-27 Test Ea
Vibration resistance	10~500Hz double amplitude 1.27mm 60m/s²	IEC68-2-6 Test Fc
Terminals strength	10N	IEC68-2-21 Test Ual
Solderability	235℃ ±2℃ 3±0.5s	IEC68-2-20 Test Ta method 1
Ambient Temperature	-40~105℃	
Relative Humidity	85% (at 20℃)	IEC68-2-3 Test Ca
Mass	4g (Q type 9.5g)	

Dimensions

mm /inch



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