



NV23K

12x12.9x9.9

Features

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

Contact Data

Contact Arrangement	1A, 1C	
Contact Material	Ag·SnO ₂ Ag·Ni	
Contact Rating	Resistive: 1A:20A/14VDC 1C:NO:20A/14VDC; NC:15A/14VDC	
	Inductive:1.0mH On 20A/14VDC off:8A/14VDC	
Max. Switching Power	280W	
Max. Switching Voltage	24VDC	Max. Switching Current:30A
Contact Resistance or Voltage drop	≤30mV (at 10A)	Item 3.12 of IEC255-7
Operation life	Electrical	10 ⁵ Item 3.30 of IEC255-7
	Mechanical	10 ⁷ Item 3.31 of IEC255-7

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	181	5.7	1.25	0.55	≤3	≤1.5
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 IEC255-5
Dielectric Strength		
Between contacts	50Hz 500V	Item 6 of IEC255-5
Between contact and coil	50Hz 500V	Item 6 of IEC255-5
Shock resistance	300m/s ² 6ms	IEC68-2-27 Test Ea method 1
Vibration resistance	10~500Hz double amplitude 1.27mm 60m/s ²	IEC68-2-6 Test Fc
Terminals strength	10N	IEC68-2-21 Test Ua1
Solderability	230℃ ±2℃ 10 ±0.5s	IEC68-2-20 Test Ta method 1
Ambient Temperature	-40~105℃	
Relative Humidity	85% (at 20℃)	IEC68-2-3Test Ca
Mass	4g	

Qualification inspection:

Perform the qualification test as specified in the table IV of IEC255-19-1 and minimum sample size 24.

Ordering Information							
NV23K	Q	A	Z	DC12V	0.55		
				Coil Power Consumption:0.55:0.55W,0.57:0.57W			
				Coil rated DC Voltage 10V、12V			
				S: Sealed type, Z: Dust Cover			
				Contact Arrangement:A:1A;C:1C			
Q: Quite ; NIL : standard							
Part number: NV23K							

Dimensions (Unit: mm)		mm	inch
	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		

NOTES 1).Dimensions are in millimeter.

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