

NV23K



12×12.9×9.9

Patent No. :01274370.4

| Features |
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| <ul style="list-style-type: none"> Small size, lightweight (4g) . Withstands high temperature, operating under 105°C ambient temperature. Heavy contact load switching current up to 30A. |

| Ordering Information |
|---|
| NV23K <u>Q</u> <u>C</u> <u>Z</u> <u>S</u> <u>30</u> <u>DC12V</u> <u>N</u> <u>0.57</u> 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°C); 35A for 2 minutes,25A for 1hour(12VDC at 85°C) |
| 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 |

| 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 | ≤ 4 | ≤ 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 60255-5 |
| Dielectric Strength | Between contacts | 50Hz 500V |
| | Between contact and coil | 50Hz 500V |
| Shock resistance | 300m/s ² 6ms | IEC 68-2-27 Test Ea |
| Vibration resistance | 10~500Hz double amplitude 1.27mm 60m/s ² | IEC 68-2-6 Test Fc |
| Terminals strength | 10N | IEC 68-2-21 Test Ual |
| Solderability | 235°C ± 2°C 3 ± 0.5s | IEC 68-2-20 Test Ta method 1 |
| Ambient Temperature | -40~105°C | |
| Relative Humidity | 85% (at 20°C) | IEC 68-2-3 Test Ca |
| Mass | 4g (Q type 9.5g) | |

Dimensions mm /inch

Dimensions

Mounting (Bottom view)

Wiring diagram (Bottom view)

1A 1C

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