



NV2M

18.2×17.4×13.8 (2A,2C) 18.0×9.5×13.6 (1A,1C)
Q Type: 22.8×22.3×20.4

Patent No. 01330295.7 023121297

Features

- Small size, light weight.
- Low coil power consumption.
- Switching capacity up to 20A.
- PC board mounting.
- Suitable for automobile, automation system, electronic equipment, instrument, meter, telecommunication facilities and remote control facilities.

Ordering Information

NV2M **Q** **1C** **Z** **DC12V** **0.6**
1 2 3 4 5 6

1 Part number: NV2M

2 NIL:Standard;Q:Quiet type

3 Contact arrangement: 1A:1A;1C:1C
2A:2A; 2C:2C

4 Enclosure: S: Sealed type; Z: Dust cover

5 Coil rated Voltage(V): DC:12

6 Coil power consumption: 0.56:0.56W; 0.6:0.6W; 0.8: 0.8W

Contact Data

| | | |
|------------------------------------|---|----------------------------|
| Contact Arrangement | 1A (SPSTNO) , 1C (SPDT(B-M)) 2A (DPSTNO) , 2C (DPDT(B-M)) | |
| Contact Material | Ag-SnO ₂ | |
| Contact Rating (resistive) | NO:20A/14VDC NC:15A/14VDC | |
| Max. Switching Power | 280W | |
| Max. Switching Voltage | 40VDC | Max. Switching Current:20A |
| Contact Resistance or Voltage drop | ≤30mΩ (or 30mV at 10A max make time 15s) | Item 3.12 of IEC255-7 |
| Operation life | Electrical | 2 × 10 ⁵ |
| | Mechanical | 10 ⁷ |
| | | Item 3.30 of IEC255-7 |
| | | Item 3.31 of IEC255-7 |

Coil Parameter

| Dash numbers | Coil voltage VDC | | Coil resistance Ω±10% | Pickup voltage VDC(max) (58%of rated voltage) | release voltage VDC(min) (9% of rated voltage) | Coil power consumption W | Operate Time ms | Release Time ms |
|--------------|------------------|------|-----------------------|--|--|--------------------------|-----------------|-----------------|
| | Rated | Max. | | | | | | |
| 012-800 | 12 | 18 | 180 | 6.9 | 1 | 0.8 | <3 | <1.2 |
| 012-600 | 12 | 18 | 240 | 6.9 | 1 | 0.6 | <3 | <1.2 |
| 012-560 | 12 | 18 | 260 | 6.9 | 1 | 0.56 | <3 | <1.2 |

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

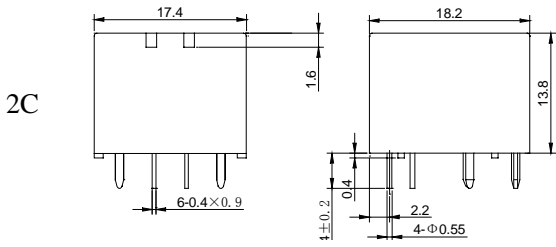
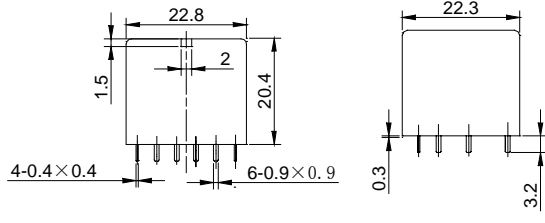
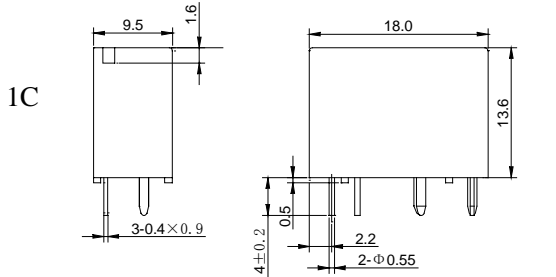
Operation condition

| | | |
|--------------------------|---|-----------------------------|
| Insulation Resistance | 100MΩ 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 | Functional: 300m/s ² Survival: 450 m/s ² | IEC68-2-27 Test Ea |
| Vibration resistance | 10~100Hz 100 m/s ² Double amplitude 1.5mm | IEC68-2-6 Test Fc |
| Terminals strength | 5N | IEC68-2-21 Test Ua1 |
| Solderability | 235°C ± 2°C 3 ± 0.5s | IEC68-2-20 Test Ta method 1 |
| Ambient Temperature | -40~85°C | |
| Relative Humidity | 85% (at 40°C) | IEC68-2-3 Test Ca |
| Mass | 5g | |

Qualification inspection:

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

Dimensions (Unit: mm)

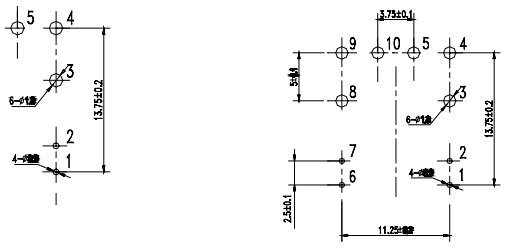


(Standard Type)

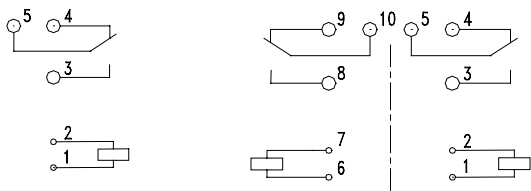
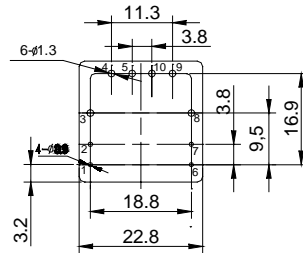
(Quiet type)

Dimensions

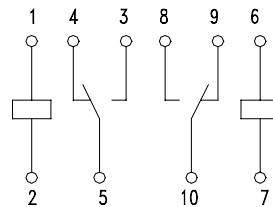
| mm | inch |
|-------|-------|
| 0.3 | 0.012 |
| 0.4 | 0.016 |
| 0.55 | 0.022 |
| 0.9 | 0.035 |
| 1.3 | 0.051 |
| 1.5 | 0.059 |
| 1.6 | 0.063 |
| 2.0 | 0.079 |
| 2.2 | 0.087 |
| 2.5 | 0.098 |
| 3.2 | 0.126 |
| 3.6 | 0.142 |
| 3.75 | 0.148 |
| 3.8 | 0.150 |
| 5.0 | 0.197 |
| 9.5 | 0.374 |
| 11.25 | 0.443 |
| 13.75 | 0.541 |
| 13.8 | 0.543 |
| 17.4 | 0.685 |
| 18.2 | 0.717 |
| 18.8 | 0.740 |
| 20.4 | 0.803 |
| 22.3 | 0.878 |
| 22.8 | 0.898 |



Mounting (Bottom views)



Wiring diagram (Bottom views)



NOTES 1).Dimensions are in millimeter.

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