



22.5×16.5×16.5

N C F 2

Features

- Small size, light weight.
- Low coil power consumption.
- Operation noise: less than 50db.
- PC board mounting.
- Suitable for automobile, automation system, electronic equipment.

Contact Data

| | | | |
|------------------------------------|------------------------------|----------------------------|-----------------------|
| Contact Arrangement | 2 × 1C (H-Bridge) | | |
| Contact Material | Ag·SnO ₂ | | |
| Contact Rating (resistive) | NO: 20A/14VDC; NC: 10A/14VDC | | |
| Max. Switching Power | 140W | | |
| Max. Switching Voltage | 16VDC | Max. Switching Current:20A | |
| Contact Resistance or Voltage drop | ≤50mΩ | 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 | Operating Voltage Range VDC | Coil resistance Ω±10% | Pickup voltage VDC(max) (60%of rated voltage) | release voltage VDC(min) (8% of rated voltage) | Coil power consumption W | Operate Time ms | Release Time ms |
|------------------|-----------------------------|-----------------------|--|--|--------------------------|-----------------|-----------------|
| Rated | | | | | | | |
| 12 | 10-16 | 225 | 7.2 | 1.0 | 0.64 | ≤10 | ≤10 |

CAUTION: 1.The use of any coil voltage overstep operating voltage range of coil , it 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

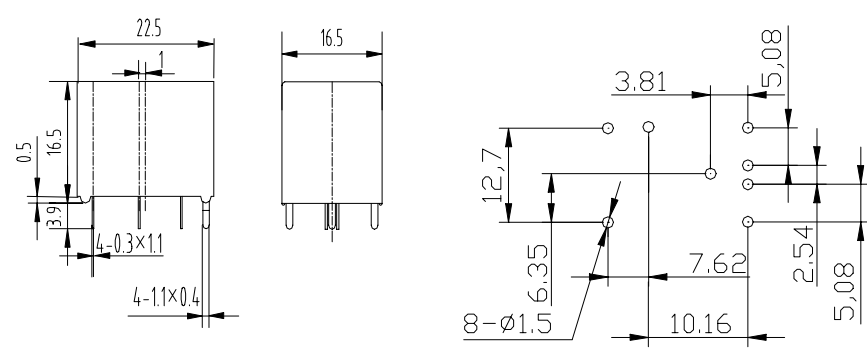
Operation condition

| | | |
|--------------------------|---|-----------------------------|
| Insulation Resistance | 100MΩ min (at 500VDC) | Item 7 of IEC255-5 |
| Dielectric Strength | | |
| Between contacts | 50Hz 1000V | Item 6 of IEC255-5 |
| Between contact and coil | 50Hz 1000V | Item 6 of IEC255-5 |
| Shock resistance | Functional: 100m/s ² 11ms; Endurance: 1000 m/s ² 6ms | IEC68-2-27 Test Ea |
| Vibration resistance | 10~100Hz 45 m/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 | -40~85℃ | |
| Relative Humidity | 85% (at 40℃) | IEC68-2-3Test Ca |
| Mass | 17g(Q type); 15g | |

Qualification inspection:

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

| Ordering Information | | | |
|-------------------------|---|------|------------------------------|
| NCF2 | Q | 2×1C | DC12V |
| | | | Coil rated DC Voltage 12V |
| | | | Contact Arrangement 2×1C |
| NIL: standard, Q: Quiet | | | |
| Part number: NCF2 | | | |

| Dimensions (Unit: mm) | | | mm | inch |
|---|-----------|-------|-------|------|
|  <p>Dimensions</p> <p>Mounting (Bottom views)</p> <p>Wiring diagram (Bottom views)</p> | 22.5 | 0.3 | 0.012 | |
| | 16.5 | 0.4 | 0.016 | |
| | 0.5 | 0.5 | 0.020 | |
| | 16.5 | 1.0 | 0.039 | |
| | 3.9 | 1.1 | 0.043 | |
| | 4-0.3×1.1 | 1.5 | 0.059 | |
| | 4-1.1×0.4 | 2.54 | 0.100 | |
| | 12.7 | 3.9 | 0.153 | |
| | 6.35 | 3.81 | 0.150 | |
| | 7.62 | 5.08 | 0.200 | |
| | 10.16 | 6.35 | 0.250 | |
| | 2.54 | 7.62 | 0.300 | |
| | 5.08 | 10.16 | 0.400 | |
| | 5.08 | 12.7 | 0.500 | |
| | 16.5 | 0.650 | | |
| | 22.5 | 0.886 | | |

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