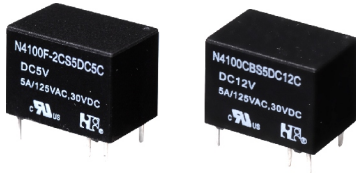


N4100 (N4100F) & N4100F-2



15.5×11×11.5

UL[®] E158859

R50080053

Features

- Low coil power consumption.
- High sensitivity.
- Small size, light weight.
- PC board mounting.
- Suitable for automation facilities, telecommunication equipment, household electrical appliance, wireless radio remote control, sound control toys application etc.

Ordering Information

N4100 C H S 3 DC12V A C
 1 2 3 4 5 6 7 8

- | | |
|--|--|
| 1 Part number: N4100(N4100F); N4100F-2 | 4 Enclosure: S: Sealed type; NIL: Dust cover |
| 2 Contact arrangement: A:1A; B:1B; C:1C | 5 Contact current: NIL:1A; 2:2A; 3:3A; 5:5A |
| 3 Coil power consumption: NIL:0.36W (Standard) ; B:0.45W (Heavy load) ; H:0.2W (High sensitivity) | 6 Coil rated voltage(V): DC:3,5,6,9,12,18,24 |
| | 7 Contact material: NIL: AgNi; A:Ag |
| | 8 Bobbin configuration:NIL:Standard; C:combined bobbin |

Contact Data

| | |
|------------------------------------|---|
| Contact Arrangement | 1A (SPSTNO) 1B (SPSTNC) 1C (SPDT(B-M)) |
| Contact Material | Ag (Au gold) AgNi(Au gold) |
| Contact Rating (resistive) | 1A,2A,3A,5A/30VDC,125VAC ;5A/14VDC 2A/250VAC(N4100F-2 only) |
| Max. Switching Power | 150W 625VA |
| Max. Switching Voltage | 60VDC 220VAC Max. Switching Current: 5A |
| Contact Resistance or Voltage drop | ≤50mΩ Item4 .12 of IEC 61810-7 |
| Operational life | Electrical 10 ⁵ Item 4 .30 of IEC 61810-7 |
| | Mechanical 10 ⁷ Item 4.31 of IEC 61810-7 |

CAUTION: 1.For the intermediate current, it only applies to the room temperature.
 2.For gold plated version, the min. Switching current and min. switching voltage is 50mA/6VDC; for non gold plated version (standard type),the min. switching current and min. switching voltage is 100mA/6VDC.

Coil Parameter

| Dash numbers | Coil voltage VDC | | Coil resistance Ω ±10% | Pickup voltage VDC(max) (75%of rated voltage) | Release voltage VDC(min) (10% of rated voltage) | Coil power consumption W | Operate Time ms | Release Time ms |
|--------------|------------------|------|------------------------|--|---|--------------------------|-----------------|-----------------|
| | Rated | Max | | | | | | |
| 003-200 | 3 | 3.3 | 45 | 2.25 | 0.3 | 0.2 | <5 | <5 |
| 005-200 | 5 | 5.5 | 125 | 3.75 | 0.5 | | | |
| 006-200 | 6 | 6.6 | 180 | 4.50 | 0.6 | | | |
| 009-200 | 9 | 9.9 | 405 | 6.75 | 0.9 | | | |
| 012-200 | 12 | 13.2 | 720 | 9.00 | 1.2 | | | |
| 018-200 | 18 | 19.8 | 1620 | 13.5 | 1.8 | | | |
| 024-200 | 24 | 26.5 | 2880 | 18.0 | 2.4 | | | |
| 003-360 | 3 | 3.3 | 25 | 2.25 | 0.3 | 0.36 | <5 | <5 |
| 005-360 | 5 | 5.5 | 75 | 3.75 | 0.5 | | | |
| 006-360 | 6 | 6.6 | 100 | 4.50 | 0.6 | | | |
| 009-360 | 9 | 9.9 | 225 | 6.75 | 0.9 | | | |
| 012-360 | 12 | 13.2 | 400 | 9.00 | 1.2 | | | |
| 018-360 | 18 | 19.8 | 900 | 13.5 | 1.8 | | | |
| 024-360 | 24 | 26.5 | 1600 | 18.0 | 2.4 | | | |
| 003-450 | 3 | 3.3 | 20 | 2.25 | 0.3 | 0.45 | <5 | <5 |
| 005-450 | 5 | 5.5 | 56 | 3.75 | 0.5 | | | |
| 006-450 | 6 | 6.6 | 80 | 4.50 | 0.6 | | | |
| 009-450 | 9 | 9.9 | 180 | 6.75 | 0.9 | | | |
| 012-450 | 12 | 13.2 | 320 | 9.00 | 1.2 | | | |
| 018-450 | 18 | 19.8 | 720 | 13.5 | 1.8 | | | |
| 024-450 | 24 | 26.5 | 1280 | 18.0 | 2.4 | | | |

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.

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Operation condition

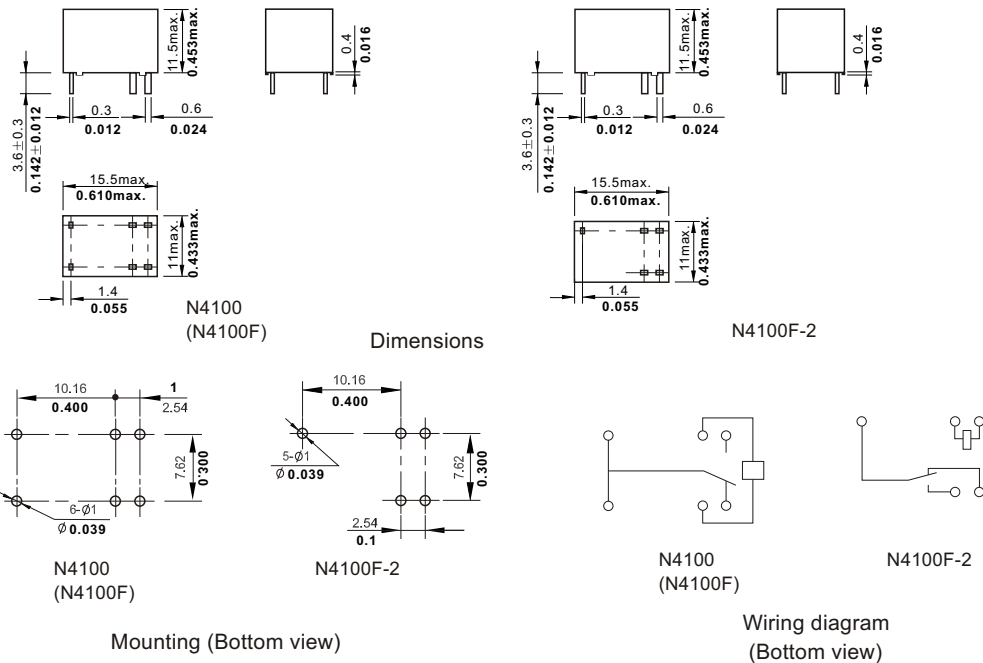
| | | |
|---|----------------------------------|--|
| Insulation Resistance | 100MΩ min (at 500VDC) | Item 7 of IEC 60255-5 |
| Dielectric Strength Between contacts Between contact and coil | 50Hz 500V 50Hz 1000V | Item 6 of IEC 60255-5 Item 6 of IEC 60255-5 |
| Shock resistance | 100m/s ² 11ms | IEC 68-2-27 Test Ea |
| Vibration resistance | 10Hz~55Hz double amplitude 1.5mm | IEC 68-2-6 Test Fc |
| Terminals strength | 5N | IEC 68-2-21 Test Ua1 |
| Solderability | 235°C ± 2°C 3s ± 0.5s | IEC 68-2-20 Test Ta method 1 |
| Ambient Temperature | -25°C~70°C | |
| Relative Humidity | 85% (at 40°C) | IEC 68-2-3 Test Ca |
| Mass | 3.5g | |

Safety approvals

| | | |
|-----------------|-----------------------------|------------------------------|
| Safety approval | UL&CUR | TUV |
| Load | 5A/125VAC 5A/30VDC 5A/14VDC | N4100F-2: 2A/250VAC 5A/30VDC |

Dimensions

mm/inch



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

Reference Data

