

N4100 (N4100F) & N4100F-2



15.5×11×11.5

UL US E158859 R50080053
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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
 1 2 3 4 5 6 7

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

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 |
| 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 |

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 | | | |
| 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 | | | |
| 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 | | | |
| 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.

Operation condition

| | | |
|-----------------------|--------------------------------|-----------------------------|
| Insulation Resistance | 100MΩ min (at 500VDC) | Item 7 of IEC 61810-5 |
| Dielectric Strength | Between contacts | 50Hz 500V |
| | Between contact and coil | 50Hz 1000V |
| Shock resistance | 100m/s ² 11ms | IEC68-2-27 Test Ea |
| Vibration resistance | 10~55Hz 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 | -25~70°C | |
| Relative Humidity | 85% (at 40°C) | IEC68-2-3Test Ca |
| Mass | 3.5g | |

Safety approvals

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

Dimensions

mm/inch

Mounting (Bottom view) Wiring diagram (Bottom view)

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

Reference Data

