

NT10



20.3 × 7 × 15.3

c us E158859 40048980

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Features

- 7A/250VAC,5A/30VDC high capacity switching.
- Small size, light weight and low coil power consumption.
- PC board mounting is available.
- Ambient operating temperature: max. 105°C.
- Suitable for home appliance application , automatic system , electronic equipment , instruments ,communication device, remote control device and so on.
- Product in accordance to IEC60335-1 available.

Ordering Information

NT10 - A - S - 12 - N - W
 1 2 3 4 5 6

1 Part number: NT10

2 Contact arrangement: A:1A

3 Enclosure: S:Wash tight ; Z: Flux proof

4 Coil rated voltage(V): DC:5,12,18,24

5 Contact material: Nil:AgSnO₂; N:AgNi

6 W: 335 compliant; Nil:Standard

Contact Data

| | | | |
|----------------------------|------------|------------------------|---------------------------|
| Contact Arrangement | | 1A(SPSTNO) | |
| Contact Material | | Ag Alloy | |
| Contact Rating (Resistive) | | 5A,7A/250VAC; 5A/30VDC | |
| Max. Switching Power | | 150W 1750VA | |
| Max. Switching Voltage | | 30VDC 277AC | Max. Switching Current:7A |
| Voltage drop | | ≤100mΩ | Item 4.12 of IEC 61810-7 |
| Operational | Electrical | 1 × 10 ⁵ | Item 4.30 of IEC 61810-7 |
| Life | Mechanical | 5 × 10 ⁶ | Item 4.31 of IEC 61810-7 |

Coil Parameter

| Dash numbers | Coil voltage VDC | | Coil resistance Ω ±10% | Pick-up voltage VDC(max) (75% of rated voltage) | Drop-out voltage VDC(min) (10% of rated voltage) | Coil power W | Operate time ms | Release time ms |
|--------------|------------------|------|------------------------|--|--|--------------|-----------------|-----------------|
| | Rated | Max. | | | | | | |
| 005-200 | 5 | 8.0 | 125 | 3.75 | 0.5 | 0.2 | ≤10 | ≤10 |
| 012-200 | 12 | 19.2 | 720 | 9.00 | 1.2 | | | |
| 018-200 | 18 | 28.8 | 1620 | 13.5 | 1.8 | | | |
| 024-200 | 24 | 38.4 | 2880 | 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.

Characteristics

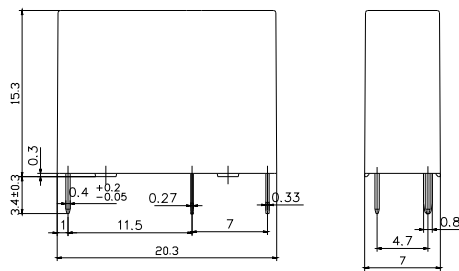
| | | |
|--|---|--------------------------|
| Insulation Resistance | 1000M Ω min (at 500VDC) | Item 4.11 of IEC 61810-7 |
| Dielectric Strength | | |
| Between Contacts | 50Hz 750V | Item 4.9 of IEC 661810-7 |
| Between Contact and Coil | 50Hz 4000V | Item 4.9 of IEC 61810-7 |
| Impulse Withstand Voltage (Between Contact and Coil) | 10kV (1.2/50 μ s) | Item 4.10 of IEC 61810-7 |
| Shock Resistance | Functional:98m/s ² | Item 4.26 of IEC 61810-7 |
| | Destructive:980m/s ² | |
| Vibration Resistance | Functional: 10Hz~55Hz Double amplitude 1.5mm | Item 4.28 of IEC 61810-7 |
| | Destructive: 10Hz~55Hz Double amplitude 1.5mm | |
| Terminals Strength | 5N | Item 4.24 of IEC 61810-7 |
| Ambient Temperature | -40 $^{\circ}$ C~105 $^{\circ}$ C | |
| Relative Humidity | 5% to 85% | Item 4.16 of IEC 61810-7 |
| Mass | Approx.4g | Item 4.7 of IEC 61810-7 |

Safety approvals

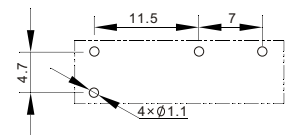
| Safety approval | UL&CUR | VDE | CQC |
|-----------------|---|--------------------------------------|---------------------------------|
| Load | 5A/250VAC,30VDC 100000ops 85 $^{\circ}$ C | 5A/250VAC 100000ops 105 $^{\circ}$ C | 5A/250VAC,30VDC 85 $^{\circ}$ C |

Dimensions

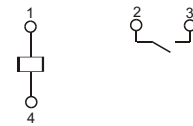
mm



Dimensions



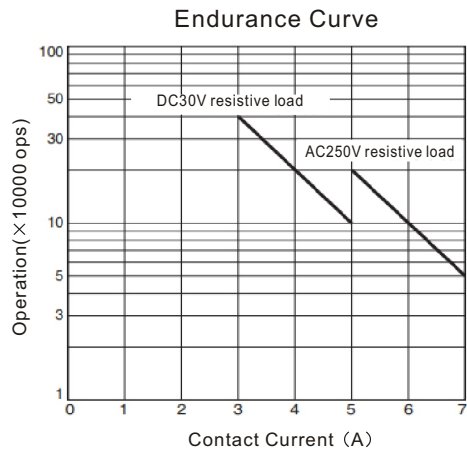
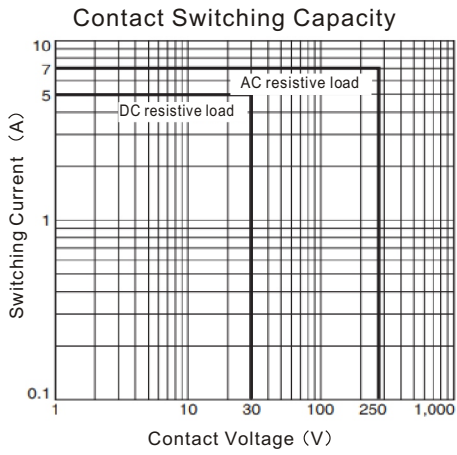
Mounting (Bottom view)



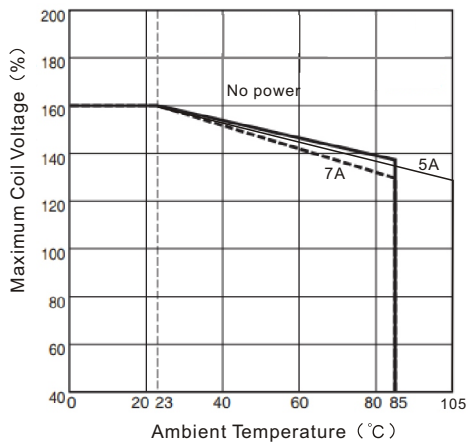
Wiring diagram (Bottom view)

CAUTION: In case of no tolerance shown in outline dimension: outline dimension ≤ 1 mm, tolerance should be ± 0.2 mm; outline dimension > 1 mm and ≤ 5 mm, tolerance should be ± 0.3 mm; outline dimension > 5 mm, tolerance should be ± 0.4 mm.

Reference Data



Ambient Temperature vs. Maximum Coil Voltage



Note: The maximum coil voltage refers to the maximum value in a varying range of operating power voltage, not a continuous voltage.