



29×12.7×15.7

NT75

UL US E158859 CE 40020063 CCC 10002042304

Features

- Small size, lightweight. Low coil consumption.
- Switching capacity up to 20A.
- PC board mounting.
- Suitable for household electrical appliances, automation system, electrical equipment, instrument, meter telecommunication facilities and remote control facilities.

Ordering Information

NT75 C S 12 DC12V 0.41 3.5 N G
 1 2 3 4 5 6 7 8 9

| | |
|---|--|
| 1 Part number: NT75 | 5 Coil rated voltage(V): DC:5,6,9,12,24,48,60,110 AC:24,115,230 |
| 2 Contact arrangement:A:1A; A2:1A2; C:1C; C2:1C2; 2A:2A; 2C:2C | 6 Coil power consumption: 0.25:0.25W;0.41:0.41W; 0.75:0.75VA |
| 3 Enclosure:S: Sealed type; Z: Dust cover | 7 Pole-distance: 3.5:3.5mm; 5.0:5.0mm |
| 4 Contact rating:12A,16A/250VAC 30VDC; NO:20A/277VAC,NC:16A/277VAC 2A,2C(0.41W):8A/250VAC 30VDC;8A,10A/277VAC | 8 Contact material: NiL:AgSnO ₂ ; N:AgNi; C:AgCdO |
| | 9 Contact plating: NiL:Standard; G:Gold plated |

Contact Data

| | |
|------------------------------------|---|
| Contact Arrangement | 1A (SPSTNO) 1C (SPDT(B-M)) 2A (DPSTNO) 2C (DPDT(B-M)) |
| Contact Material | AgNi AgSnO ₂ AgCdO |
| Contact Rating (resistive) | 1A,1C:12A,16A,20A/250VAC,30VDC (rushing current 80A) NO:20A/277VAC NC:16A/277VAC 2A,2C(0.41W):8A/250VAC,30VDC 8A,10A/277VAC |
| Max. Switching Power | 480W 5600VA 2C:240W 2800VA |
| Max. Switching Voltage | 125VDC 440VAC Max. Switching Current:20A |
| Contact Resistance or Voltage drop | <100mΩ Item 4.12 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(10mA/6VDC~100mA/28VDC), 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) (70%of rated voltage) | Release voltage VDC(min) (10% of rated voltage) | Coil power consumption W | Operate Time ms | Release Time ms |
|--------------|------------------|------|-------------------------|---|---|--------------------------|-----------------|-----------------|
| | Rated | Max. | | | | | | |
| 005-250 | 5 | 6.5 | 100 | 3.5 | 0.5 | 0.25 | ≤15 | ≤8 |
| 006-250 | 6 | 7.8 | 144 | 4.2 | 0.6 | | | |
| 009-250 | 9 | 11.7 | 324 | 6.3 | 0.9 | | | |
| 012-250 | 12 | 15.6 | 576 | 8.4 | 1.2 | | | |
| 024-250 | 24 | 31.2 | 2304 | 16.8 | 2.4 | | | |
| 048-250 | 48 | 62.4 | 9216 | 33.6 | 4.8 | | | |
| 060-250 | 60 | 78 | 12857 | 42 | 6.0 | 0.41 | ≤15 | ≤8 |
| 005-410 | 5 | 6.5 | 61 | 3.5 | 0.5 | | | |
| 006-410 | 6 | 7.8 | 88 | 4.2 | 0.6 | | | |
| 009-410 | 9 | 11.7 | 198 | 6.3 | 0.9 | | | |
| 012-410 | 12 | 15.6 | 351 | 8.4 | 1.2 | | | |
| 024-410 | 24 | 31.2 | 1405 | 16.8 | 2.4 | | | |
| 048-410 | 48 | 62.4 | 5620 | 33.6 | 4.8 | 8780/± 15% | ≤15 | ≤8 |
| 060-410 | 60 | 78 | 12857 | 42 | 6.0 | | | |
| 110-410 | 110 | 143 | 29512/± 15% | 77 | 11.0 | | | |

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.

Coil Parameter(AC)

| Dash numbers | Coil voltage VAC | | Coil resistance Ω ± 10% | Rated current (mA) | Pickup voltage VAC(max) (70%of rated voltage) | Release voltage VAC(min) (10% of rated voltage) | Coil power consumption VA |
|--------------|------------------|-------|-------------------------|--------------------|---|---|---------------------------|
| | Rated | Max. | | | | | |
| 024AC-750 | 24 | 31.2 | 350 | 31.6 | 18 | 3.6 | 0.75 |
| 115AC-750 | 115 | 149.5 | 8100/± 15% | 6.6 | 86.3 | 17.3 | |
| 230AC-750 | 230 | 299 | 32500/± 15% | 3.2 | 172.5 | 34.5 | |

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 | 1000MΩ min (at 500VDC) | Item 7 of IEC 60255-5 |
| Dielectric Strength | 50Hz 1000V | Item 6 of IEC 60255-5 |
| Between contacts | 50Hz 5000V | Item 6 of IEC 60255-5 |
| Between contact and coil | | |
| 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 | 10N | IEC 68-2-21 Test Ua1 |
| Solderability | 235°C ± 2°C 3s ± 0.5s | IEC 68-2-20 Test Ta method 1 |
| Ambient Temperature | -40°C~85°C | |
| Relative Humidity | 85% (at 40°C) | IEC 68-2-3 Test Ca |
| Mass | 11g 12g | |

Safety approvals

| Safety approval | VDE | UL&CUR | CQC |
|-----------------|-------------------------------------|---|---|
| Load | 1A,1C:16A/250VAC 2A,2C:8A/250VAC | 1A,1C:12A,16A/250VAC, 12A/30VDC(1C) 2A,2C:8A/277VAC,30VDC | 1A,1C: 16A/250VAC 2A,2C: 8A/250VAC |

Dimensions

