

NPA



20.3×5.4×12.6



Features

- Small size, light weight.
- Low coil power consumption 0.12W.
- PC board mounting, SIL terminal
- Suitable for household electrical appliances, automation system, electronic equipment, instrument, meter, telecommunication facilities and remote control facilities.

Ordering Information

NPA A S 5 DC12V
 1 2 3 4 5

- 1 Part number: NPA;NPA2
- 2 Contact arrangement:A:1A
- 3 Enclosure: S:Sealed type NIL:Dust cover
- 4 Contact current: 3:3A; 5:5A
- 5 Coil rated voltage (V): DC:5,6,9,12,18,24

Contact Data

| | | | |
|-----------------------------------|---|---|--|
| Contact Arrangement | 1A (SPSTNO) | | |
| Contact Material | Silver Alloy (Gold clad) | | |
| Contact Rating (resistive) | 3A,5A/30VDC,250VAC; | | |
| Max. Switching Power | 150W | 1250VAC | min. Load:0.1mA/0.1VDC (reference value) |
| Max. Switching Voltage | 110VDC | 250VAC | Max.Switching Current:5A |
| Contact Resistance & Voltage drop | <50mΩ (at 10mA/6V) Item 4.12 of IEC 61810-7 | | |
| Operational life | Electrical | 1 × 10 ⁵ 5 × 10 ⁴ (5A) Item 4.30 of IEC 61810-7 | |
| | Mechanical | 2 × 10 ⁷ Item 4.31 of IEC 61810-7 | |

CAUTION: Relays previously tested or used above 10mA resistive at 6VDC maximum or peak AC open circuit are not recommended for subsequent use in low level applications.

Coil Parameter

| Dash numbers | Coil voltage VDC | | Rated current mA | Coil resistance Ω ± 10% | Pickup voltage VDC (max) (70% of rated voltage) | Release voltage VDC (min) (5% of rated voltage) | Coil power consumption W | Operate Time ms | Release Time ms |
|--------------|------------------|------|------------------|-------------------------|---|---|--------------------------|-----------------|-----------------|
| | Rated | Max. | | | | | | | |
| NPA-005 | 5 | 6 | 24 | 208 | 3.5 | 0.25 | 0.12 | <10 | <5 |
| NPA-006 | 6 | 7.2 | 20 | 300 | 4.2 | 0.3 | | | |
| NPA-009 | 9 | 10.8 | 13.3 | 675 | 6.3 | 0.45 | | | |
| NPA-012 | 12 | 14.4 | 10 | 1200 | 8.4 | 0.6 | | | |
| NPA-018 | 18 | 21.6 | 6.7 | 2700 | 12.6 | 0.9 | | | |
| NPA-024 | 24 | 28.8 | 5 | 3200 | 16.8 | 1.2 | 0.18 | <10 | <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

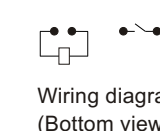
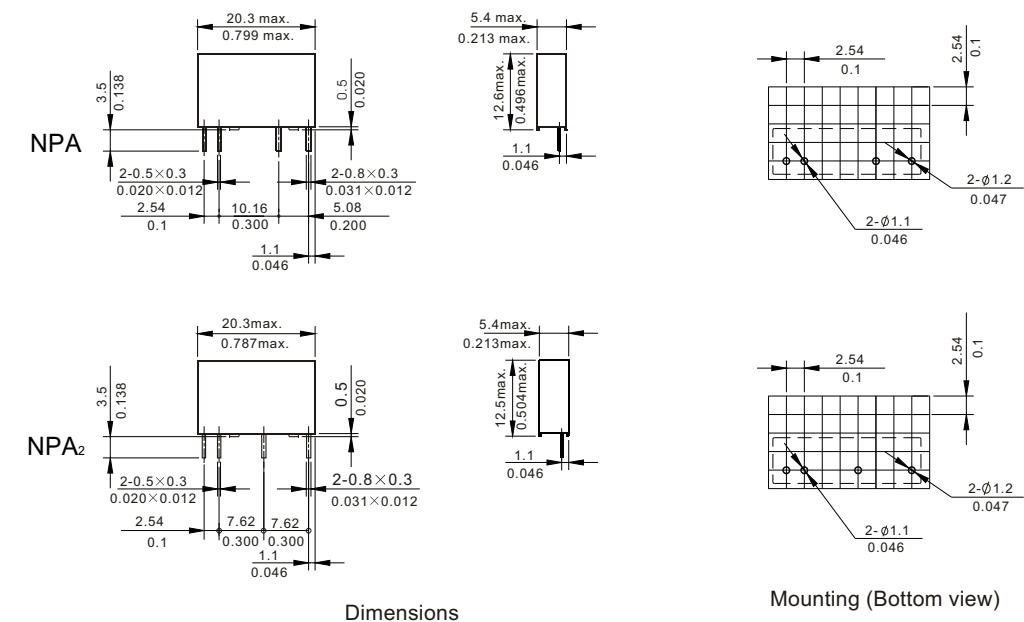
| | | |
|-----------------------|--|--|
| Insulation Resistance | 1000MΩ min (at 500VDC) | Item 7 of IEC 60255-5 |
| Dielectric Strength | 50Hz 1000V 50Hz 2000V Surge voltage:4kV | Item 6 of IEC 60255-5 Item 6 and 8 of IEC 60255-5 |
| Shock resistance | Functional:147m/s ² 11ms Survival:980m/s ² 6ms | IEC 68-2-27 Test Ea |
| Vibration resistance | 10Hz~55Hz Functional double amplitude 2.5mm Survival:double amplitude 3.5mm | 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 | -40°C~85°C | |
| Relative Humidity | 5%~85% (at 40°C) | IEC 68-2-3 Test Ca |
| Mass | 3g | |

Safety approvals

| | | |
|-----------------|---------------------|--------------------|
| Safety approval | U L & CUR | VDE |
| Load | 3A.5A/250VAC,30VDC. | 3A.5A/250VAC,30VDC |

Dimensions

mm /inch



- NOTES**
- 1) Dimensions are in millimeters.
 - 2) Inch equivalents are given for general information only.
 - 3) The terminal should be downward in installation and application.
 - 4) If not only one relay is used at the same place, the clearance between any two items may not be less than 1mm.