



Industrial & Electrical Components

## Miniature P.C.B Relay

Part No.

# NRP19



- Small size with 16A switching capability.
- Low coil power consumption: 200mW available.

### CONTACT

|                                                                         |                                         |
|-------------------------------------------------------------------------|-----------------------------------------|
| Arrangement                                                             | 1A                                      |
| Contact Material                                                        | Silver Alloy                            |
| Contact Resistance<br>(6VDC/1A)                                         | 100 mΩ Max.                             |
| Rating                                                                  |                                         |
| Resistive load<br>(Cos.Φ=1)                                             | 16A 250VAC<br>15A 125VAC<br>TV-5 125VAC |
| Max. Switching Voltage                                                  | 250VAC                                  |
| Max. Switching Current                                                  | 16A                                     |
| Max. Switching Power                                                    | 4000VA                                  |
| Expected life                                                           |                                         |
| Mechanical (10800 ops/Hour)                                             | $1 \times 10^7$                         |
| Electrical<br>(16A 250VAC, Resistive load,<br>Room temp., 1s ON 9s OFF) | $5 \times 10^4$                         |

### CHARACTERISTICS

|                          |                                          |
|--------------------------|------------------------------------------|
| Operate Time             | 10msec.Max                               |
| Release Time             | 5 msec.Max                               |
| Dielectric Strength      |                                          |
| Between contact and coil | 2200VAC(50/60Hz) for 1min                |
| Between open contacts    | 1000VAC(50/60Hz) for 1min                |
| Insulation Resistance    | 500MΩ (500 VDC)                          |
| Ambient temperature      | -40~ 85℃                                 |
| Humidity                 | 5%~85%RH                                 |
| Shock:                   | Endurance 981m/s <sup>2</sup> Min        |
|                          | Error Operation 98.1m/s <sup>2</sup> Min |
| Vibration                | Functional 10 ~ 55 Hz D.A. of 1.5mm      |
|                          | Destructive 10 ~ 55 Hz D.A. of 1.5mm     |
| Unit weight              | About 10g                                |

### ORDERING INFORMATION

e.g

**NRP-19- A - 12D**

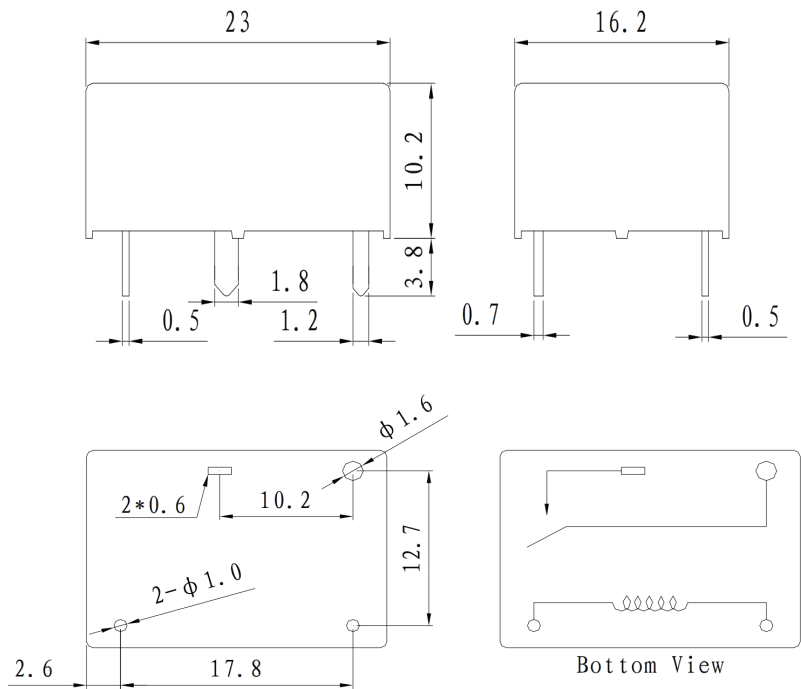
① ② ③ ④

- ① Series: Miniature P.C.B Relay
- ② Part No.
- ③ Contact Arrangement : A=N/O
- ④ Coil Rated Voltage: 12D=12VDC, 24D=24VDC

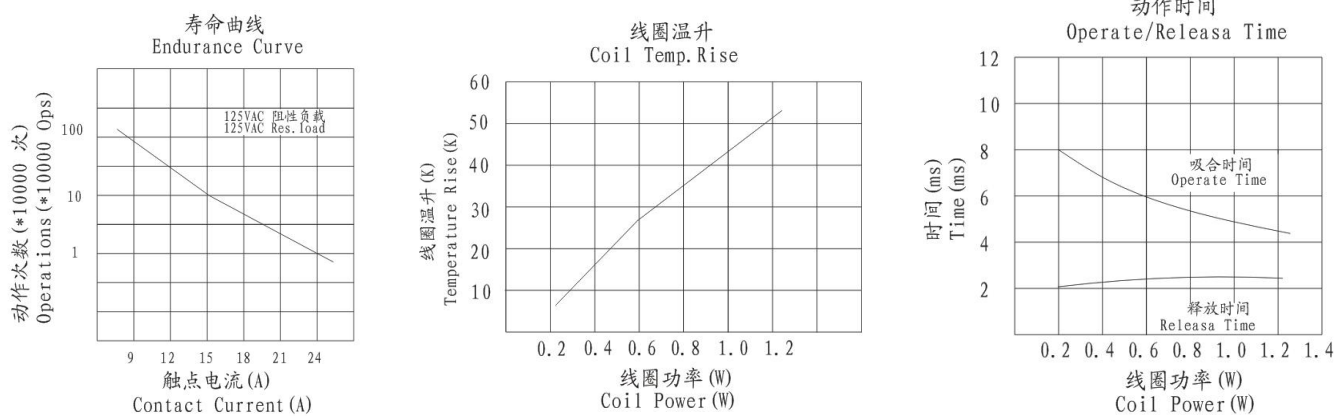
COIL DATA(at 20℃)

| Nominal Voltage<br>(VDC) | Pick-up Voltage<br>VDC(Max) | Drop-out Voltage<br>VDC(Min) | Coil Resistance (Ω)±10%<br><b>0.2W</b> | Max.Allowable<br>Voltage |
|--------------------------|-----------------------------|------------------------------|----------------------------------------|--------------------------|
| 3                        | 2.25                        | 0.30                         | 45.0                                   | 3.9                      |
| 5                        | 3.75                        | 0.50                         | 125.0                                  | 6.5                      |
| 6                        | 4.50                        | 0.60                         | 180.0                                  | 7.8                      |
| 9                        | 6.75                        | 0.90                         | 405.0                                  | 11.7                     |
| 12                       | 9.00                        | 1.20                         | 720.0                                  | 15.6                     |
| 24                       | 18.00                       | 2.40                         | 2880.0                                 | 31.2                     |
| 48                       | 36.00                       | 4.80                         | 11520.0                                | 62.4                     |

DIMENSIONS (Unit: mm)



PERFORMANCE CURVE :



Disclaimer:

The specifications in this datasheet are for reference only and subject to change without notice.No chance for us to evaluate all the specifications and technical parameters for each possible application.The users will take the responsibility to choose the correct products for their own applications. While if any technical support is needed, please contact NCR team for assistance.