

## NRP SERIES



Industrial & Electrical Components

## Miniature P.C.B Relay

Part No.

NRP-13



- 8A 240Vac 2 pole Slim relay
- Compact dimension
- Sealed type available

### CONTACT

|                                   |                                     |
|-----------------------------------|-------------------------------------|
| Arrangement                       | 2A / 2C                             |
| Contact Material                  | Silver Alloy                        |
| Contact Resistive<br>(At 6VDC 1A) | $\leq 100 \text{ m}\Omega$          |
| Rating                            | NO: 5A / 240VAC 30VDC               |
| Resistive load ( $\cos\phi=1$ )   | NC: 3A / 240VAC 30VDC               |
| Max. Switching Voltage            | 250VAC 30VDC                        |
| Max. Switching Current            | 8A                                  |
| Max. Switching Power              | 1250VA / 150W                       |
| Expected life                     |                                     |
| Mechanical                        | $1 \times 10^6$ Min (at 300ops/Min) |
| Electrical                        | $1 \times 10^5$ Min. (at 30ops/Min) |

### CHARACTERISTICS

|                           |                             |
|---------------------------|-----------------------------|
| Operate Time              | 20 ms. Max.                 |
| Release Time              | 10 ms. Max.                 |
| Initial breakdown voltage |                             |
| Between Coil & Contact    | 5000VAC (50/60Hz)for 1 min. |
| Between Open Contacts     | 1000VAC (50/60Hz)for 1 min. |
| Insulation Resistance     | Min.100M $\Omega$ (500 VDC) |
| Shock:                    |                             |
| Endurance                 | 10G                         |
| Damage                    | 100G                        |
| Vibration                 |                             |
| Endurance                 | 10 to 55 Hz ,1.5mm D.A.     |
| Damage                    | 10 to 55 Hz ,1.5mm D.A.     |
| Humidity                  | 40%~85%RH                   |
| Ambient temperature       | -45 to +85 $^{\circ}$ C     |
| Unit weight               | $\leq 14\text{g}$           |

### ORDERING INFORMATION

e.g

NRP - 13 - C - 12D - H

①                      ②                      ③                      ④                      ⑤

① Series: Miniature p.c.b Relay

② Part No.

③ Contact Form:

C=2C/O; A = N/O; B= N/C

④ Coil Voltage: 12D= 12Vdc 24D= 24Vdc

⑤ Nil= 0.72W coil power

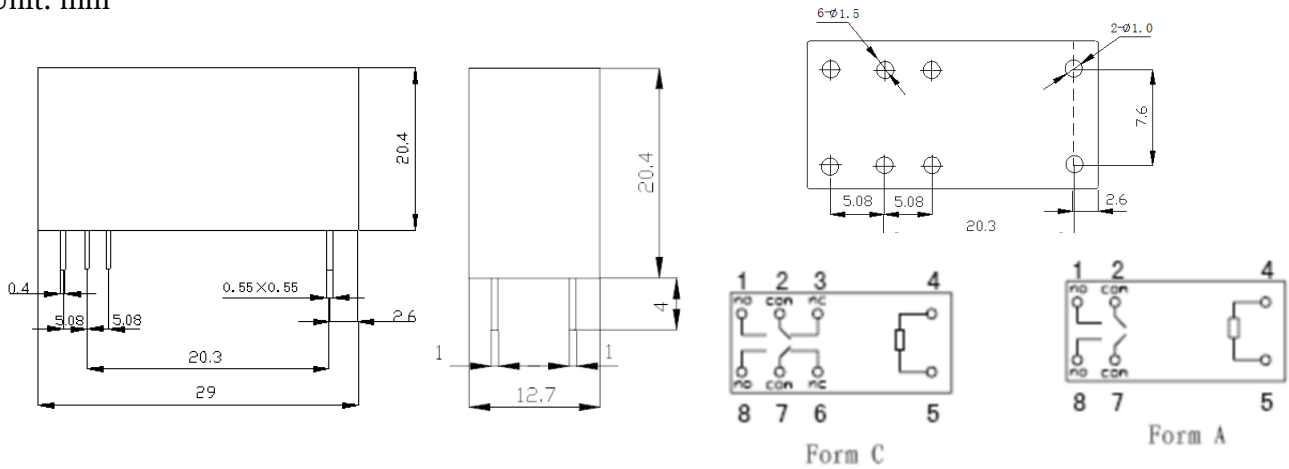
H= 0.54W coil power

## COIL DATA (at 20℃)

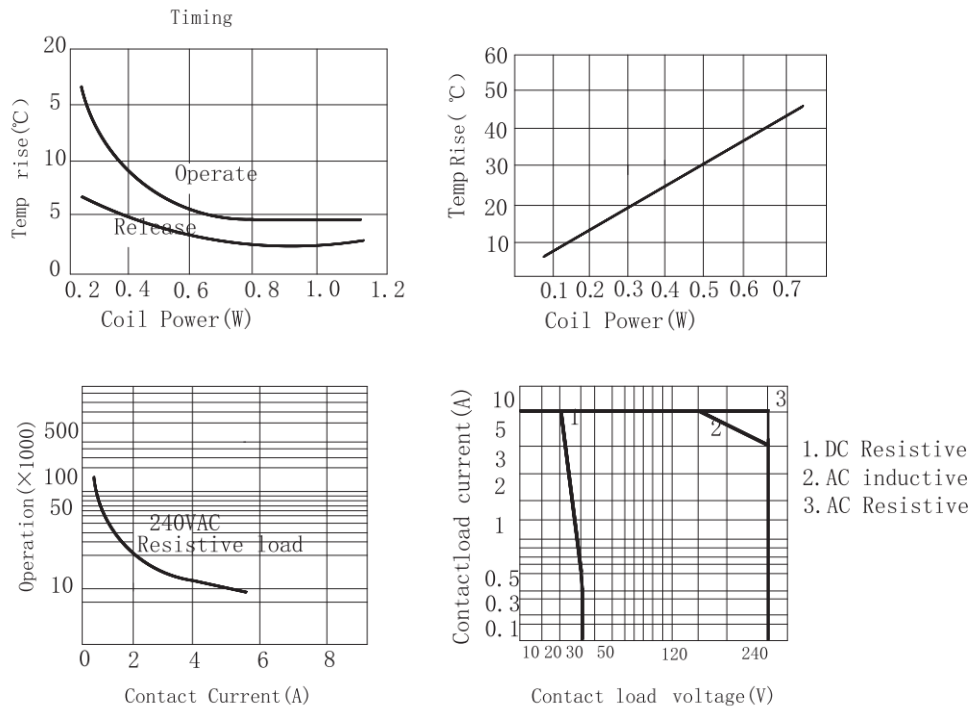
| Nominal Voltage (VDC) | Pick-up Voltage VDC(Max) | Drop-out Voltage VDC(Min) | Coil Resistance (Ω)±10% |                | Nominal operating Power (W) | Max.Allowable Voltage   |
|-----------------------|--------------------------|---------------------------|-------------------------|----------------|-----------------------------|-------------------------|
|                       |                          |                           | High Sensitive 0.54W    | Standard 0.72W |                             |                         |
| 3                     | 2.40                     | 0.15                      | 16.7                    | 12.5           | 0.54 / 0.72                 | 130% of nominal Voltage |
| 5                     | 4.00                     | 0.25                      | 46                      | 35             |                             |                         |
| 6                     | 4.80                     | 0.30                      | 67                      | 50             |                             |                         |
| 9                     | 7.20                     | 0.45                      | 150                     | 113            |                             |                         |
| 12                    | 9.60                     | 0.60                      | 267                     | 200            |                             |                         |
| 24                    | 19.20                    | 1.20                      | 1067                    | 800            |                             |                         |
| 48                    | 38.40                    | 2.40                      | 4267                    | 3200           |                             |                         |

## DIMENSIONS

Unit: mm



## Reference Data 性能曲线图



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.