

NRP SERIES



Industrial & Electrical Components

Miniature P.C.B Relay

Part No.

NRP-03K



- Ultra-small type with dimensions.
- High sensitivity:150mW coil power
- Sealed type available

CONTACT

Arrangement	1C
Contact Material	Silver Alloy
Contact Resistive (At 6VDC 1A)	$\leq 100 \text{ m}\Omega$
Rating	1A 120VAC/24VDC
Resistive load ($\cos\phi=1$)	2A 120VAC/24VDC
Max. Switching Voltage	120VAC / 60VDC
Max. Switching Current	1A / 2A
Max. Switching Power	120VA/30W / 240VA / 48W
Expected life	
Mechanical(at 300 ops/1 min)	1×10^7 Min
Electrical (at 30 ops/1min)	1×10^5 Min.

CHARACTERISTICS

Operate Time	4ms. Max.
Release Time	3ms. Max.
Initial breakdown voltage	
Between Coil & Contact	1000VAC (50/60Hz)for 1 min.
Between Open Contacts	400VAC (50/60Hz)for 1 min.
Insulation Resistance	Min.100M Ω (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	35-85%RH
Ambient temperature	-30 to +85°C
Unit weight	$\leq 2.2\text{g}$

ORDERING INFORMATION

e.g

NRP - 03K - C - 12D - H
① ② ③ ④ ⑤

① Series: Miniature p.c.b Relay

② Part No.

③ Contact Form: C=1C/O

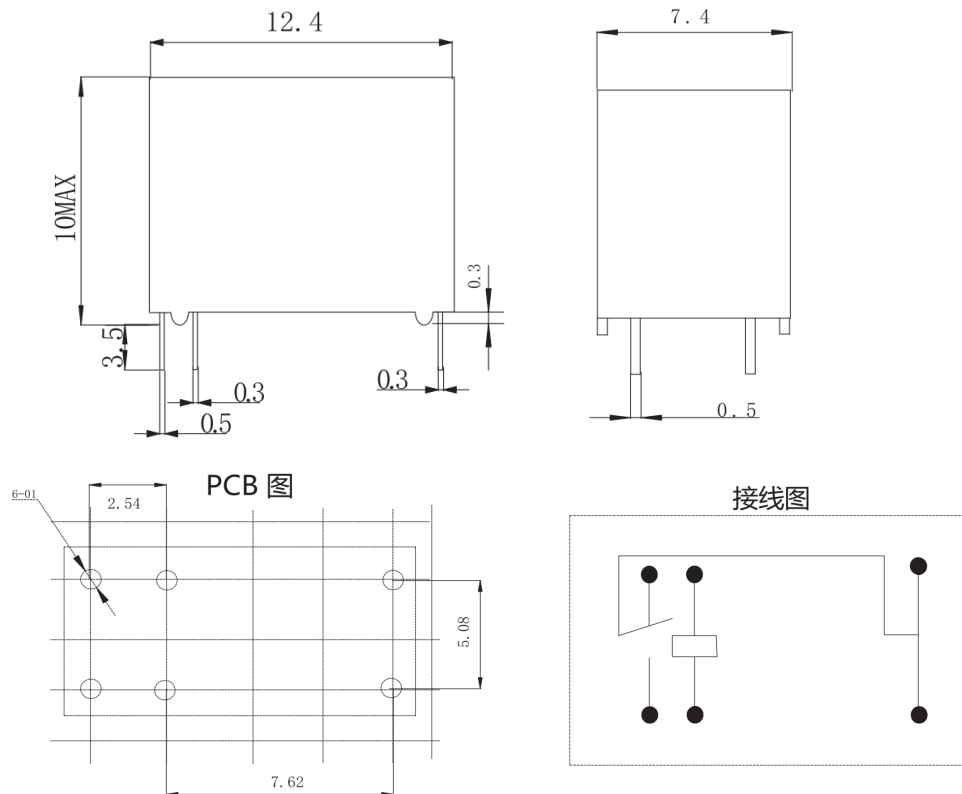
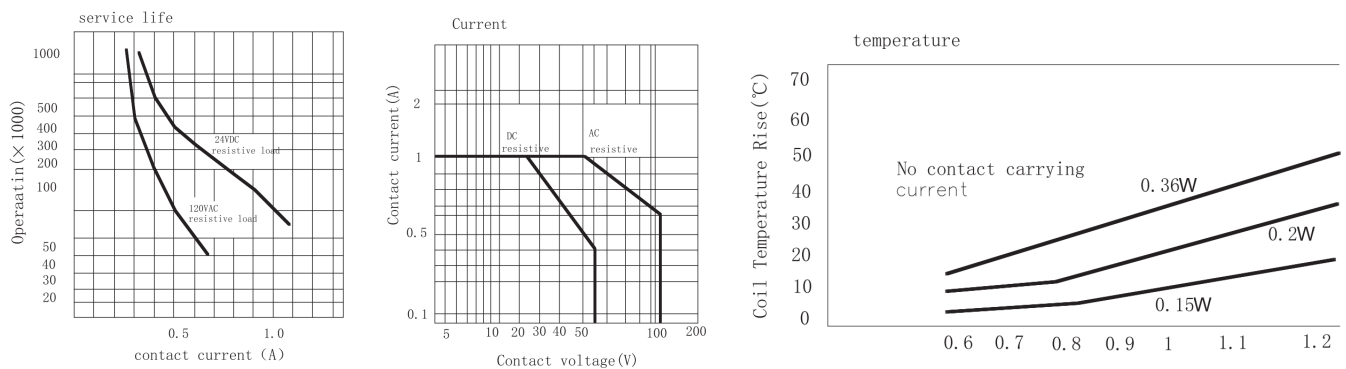
④ Coil Voltage: 12D= 12Vdc

⑤ Nil= 0.20W coil power

H= 0.15W coil power

COIL DATA (at 20°C)

Nominal Voltage (VDC)	Pick-up Voltage VDC(Max)		Drop-out Voltage VDC(Min)	Coil Resistance (Ω) $\pm 10\%$		Nominal operating Power (W)	Max.Allowable Voltage
	0.15W	0.20W		High Sensitive 0.15W	Standard 0.20W		
3	2.40	2.25	0.15	60	45	0.15 / 0.20	130% of nominal Voltage
5	4.00	3.75	0.25	167	125		
6	4.80	4.50	0.30	240	180		
9	7.20	6.75	0.45	540	405		
12	9.60	9.00	0.60	960	720		
24	19.20	18.00	1.20	3840	2800		

DIMENSIONS**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.