

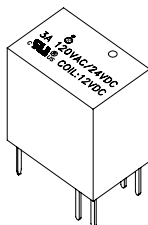


Industrial & Electrical Components

Miniature P.C.B Relay

Part No.

NRP-03K



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

CONTACT

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

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	85%RH
Ambient temperature	-30 to +70
Unit weight	$\leq 2.3\text{g}$

ORDERING INFORMATION

e.g

NRP - 03K - C - 12D - H

Series: Miniature p.c.b Relay

Part No.

Contact Form: C=1C/O

Coil Voltage: 12D= 12Vdc

Nil= 0.20W coil power

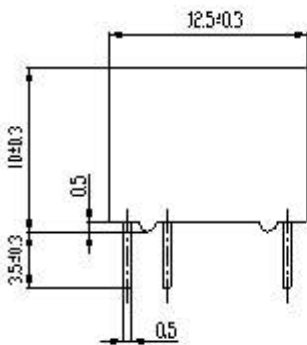
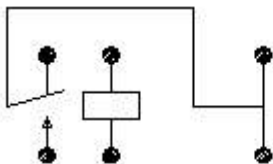
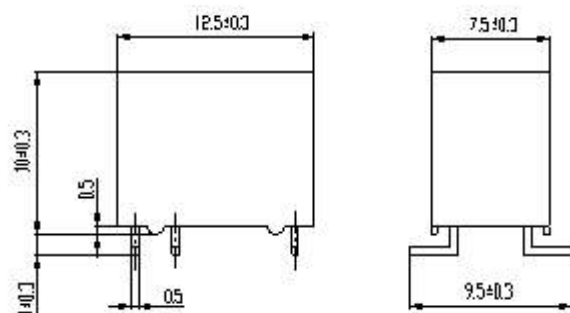
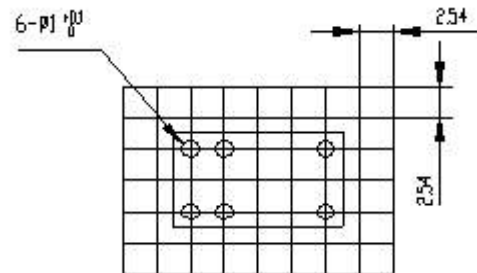
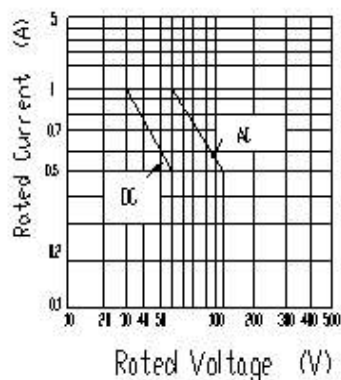
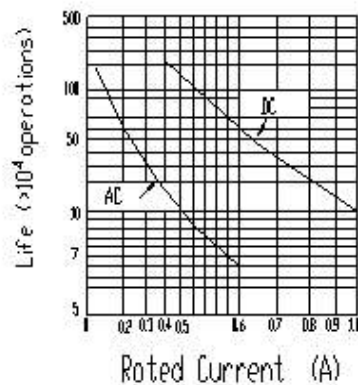
H= 0.15W coil power

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	0.30	60	45	0.15 / 0.20	130% of nominal Voltage
5	4.00	3.75	0.50	167	125		
6	4.80	4.50	0.60	240	180		
9	7.20	6.75	0.90	540	405		
12	9.60	9.00	1.20	960	720		
24	19.20	18.00	2.40	3840	2800		

DIMENSIONS

(Unit: mm)

Outline Dimension**PCB Terminal****Wiring Diagram (bottom view)****Bent Terminal****Mounting holes (bottom view)****REFERENCE DATA****Contact Switching Capacity****Contact Life****Ambient temperature**