

NRP SERIES



Industrial & Electrical Components

Miniature P.C.B Relay

Part No.

NRP-05E



- Ultra-small type with dimensions.
- High sensitivity:200mW coil power
- Sealed type available

CONTACT

Arrangemen	1A / 1B / 1C
Contact Material	Silver Alloy
Contact Resistive (At 6VDC, 1A)	$\leq 100 \text{ m}\Omega$
Rating	10A 125VAC 5A 250VAC
Resistive load ($\cos\phi=1$)	1/6HP 277VAC NO/NC:5A/3A 30VDC
Max. Switching Voltage	250VAC 30VDC
Max. Switching Current	10A
Max. Switching Power	1250VA / 150W
Expected life	
Mechanical (10800 ops/Hour)	1×10^7 Min
Electrical	1×10^5 Min.
(1A: 5A 250VAC, Resistive load, Room temp., 1s ON 9s OFF)	
(1C: 5A/3A 250VAC, Resistive load, Room temp., 1s ON 9s OFF)	

CHARACTERISTICS

Operate Time	10ms. Max.
Release Time	5ms. Max.
Initial breakdown voltage	
Between Coil & Contact	4000VAC (50/60Hz)for 1 min.
Between Open Contacts	1000VAC (50/60Hz)for 1 min.
Insulation Resistance	Min.500M Ω (500 VDC)
Shock:	Endurance 981m/s ² Min
	Damage 98.1m/s ² Min
Vibration	Endurance 10 to 55 Hz ,1.5mm D.A.
	Damage 10 to 55 Hz ,1.5mm D.A.
Humidity	5%~85%RH
Ambient temperature	-40 to +85
Unit weight	$\leq 7.5\text{g}$

ORDERING INFORMATION

e.g

NRP - 05E - C - 12D - H

Series: Miniature p.c.b Relay

Part No.

Contact Form:

C=1C/O; A = N/O; B= N/C

Coil Voltage: 12D= 12Vdc

Nil= 0.40W coil power

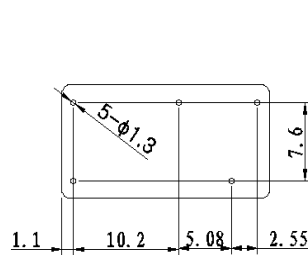
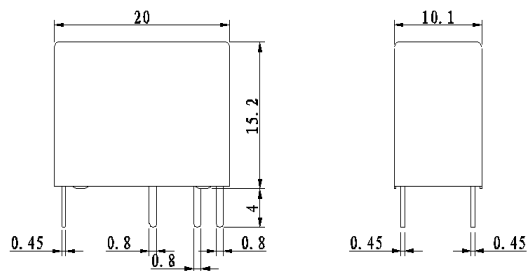
H= 0.20W coil power

COIL DATA (at 20 °C)

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 0.20W	Standard 0.40W		
3	2.25	0.30	45.00	22.50	0.20 / 0.40	130% of nominal Voltage
5	3.75	0.50	125.00	62.50		
6	4.50	0.60	180.00	90.00		
9	6.75	0.90	405.00	202.50		
12	9.00	1.20	720.00	360.00		
24	18.00	2.40	2880.00	1440.00		

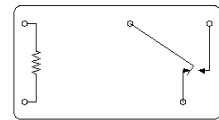
DIMENSIONS

Unit: mm

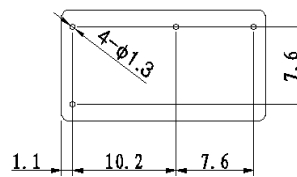
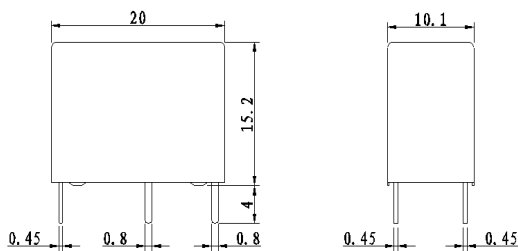


PCB Layout (Bottom view)

1C

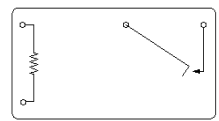


Wiring Diagram (Bottom view)

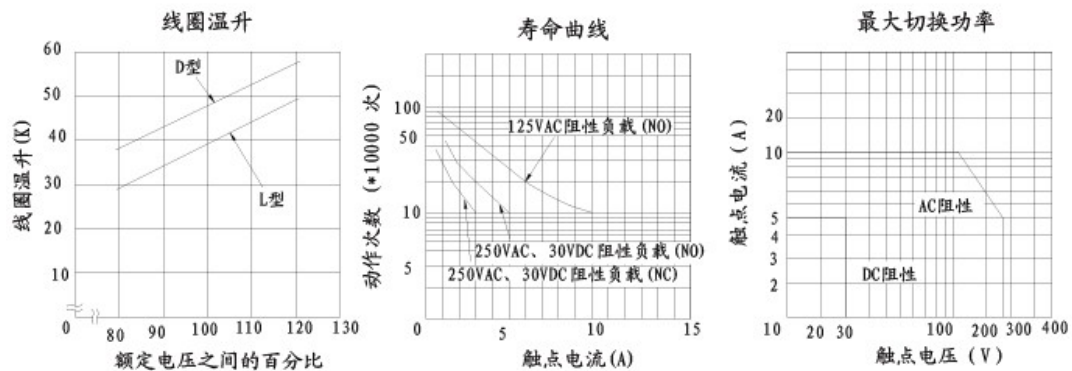


PCB Layout (Bottom view)

1A



Wiring Diagram (Bottom view)

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.