# **FORWARD RELAYS**



**VDE** 40008356

c**جگ** us E169380

**NPA** 

20.3×5.4×12.6

## Features

- Small size, light weight.
- Low coil power consumption 0.12W.
- PC board mounting, SIL terminal

. Suitable for household electrical appliances, automation system, electronic equipment, instrument, meter,

telecommunication facilities and remote control facilities.

# **Ordering Information**

#### NPA A S 5 DC12V 2 3 4 1 5

1 Part number: NPA;NPA2 2 Contact arrangement:A:1A 3 Enclosure : S:Sealed type NIL:Dust cover 4 Contact current: 3:3A; 5:5A 5 Coil rated voltage (V): DC:5,6,9,12,18,24

# **Contact Data**

Contact Arrangement		1A (SPSTNO)	
Contact Material		Silver Alloy (Gold clad)	
Contact Rating (resistive)		3A,5A/30VDC,250VAC;	
Max. Switching Power		150W 1250VAC	min Load:0.1mA/0.1VDC (reference value)
Max. Switching Voltage		110VDC 250VAC	Max.Switching Current:5A
Contact Resistance & Voltage drop		≪30mΩ (at 1A/6V)	Item 4.12 of IEC 61810-7
Operational life	Electrical	$1 \times 10^{5} 5 \times 10^{4} (5A)$	Item 4.30 of IEC 61810-7
	Mechanical	2 × 10 <sup>7</sup>	Item 4.31 of IEC 61810-7

### CAUTION:

Relays previously tested or used above 10mA resistive at 6VDC maximum or peak AC open circuit are not recommended for subsequent use in low level applications.

#### **Coil Parameter**

Dash	Coil voltage VDC		Rated	Coil	Pickup voltage	Release voltage	Coil power	Operate	Release
numbers	Rated	Max.	current mA	resistance $\Omega \pm 10\%$	VDC (max) (70%of rated voltage)	VDC (min) (5% of rated voltage)	consumption W	Time ms	Time ms
NPA-005 NPA-006 NPA-009 NPA-012 NPA-018	5 6 9 12 18	6 7.2 10.8 14.4 21.6	24 20 13.3 10 6.7	208 300 675 1200 2700	3.5 4.2 6.3 8.4 12.6	0.25 0.3 0.45 0.6 0.9	0.12	<10	≪5
NPA-024	24	28.8	5	3200	16.8	1.2	0.18	<10	<5

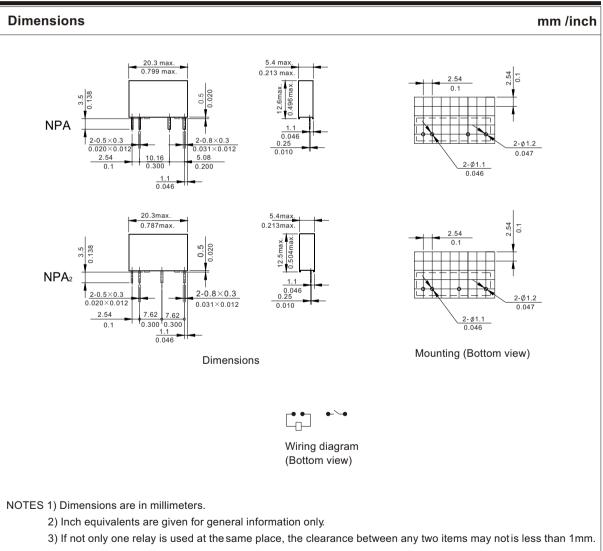
CAUTION: 1. The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay. 2.Pickup and release voltage are for test purposes only and are not to be used as design criteria.

# **Operation condition**

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Insulation Resistance	1000MΩ min (at 500VDC)	Item 7 of IEC 61810-5
Dielectric Strength Between contacts Between contact and coil	50Hz 1000V 50Hz 2000V Surge voltage:4kV	Item 6 of IEC 61810-5 Item 6 and 8 of IEC 61810-5
Shock resistance	Functional:147m/s <sup>2</sup> 11ms Survival:980m/s <sup>2</sup> 6ms	IEC68-2-27 Test Ea
Vibration resistance	10~55Hz Functional double amplitude 2.5mm Survival:double amplitude 3.5mm	IEC68-2-6 Test Fc
Terminals strength	5N	IEC68-2-21 Test Ua1
Solderability	235℃ ±2℃ 3±0.5s	IEC68-2-20 Test Ta method 1
Ambient Temperature	-40~85°C	
Relative Humidity	5%~85% (at 40℃)	IEC68-2-3TestCa
Mass	3g	

# Safety approvals

Safety approval	U L & CUR	VDE
Load	3A.5A/250VAC,30VDC.	3A.5A/250VAC,30VDC



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