

NPA



20.3 × 5.4 × 12.6



Features	
<ul style="list-style-type: none"> 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	
1	2 3 4 5
1 Part number: NPA;NPA2	4 Contact current: 3:3A; 5:5A
2 Contact arrangement:A:1A	5 Coil rated voltage (V): DC:5,6,9,12,18,24
3 Enclosure: S:Sealed type NIL:Dust cover	

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 × 10 ⁵ 5 × 10 ⁴ (5A) Item 4.30 of IEC 61810-7
	Mechanical	2 × 10 ⁷ 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.

Dash numbers	Coil voltage VDC		Rated current mA	Coil resistance Ω ± 10%	Pickup voltage VDC (max) (70% of rated voltage)	Release voltage VDC (min) (5% of rated voltage)	Coil power consumption W	Operate Time ms	Release Time ms
	Rated	Max.							
NPA-005	5	6	24	208	3.5	0.25	0.12	<10	<5
NPA-006	6	7.2	20	300	4.2	0.3			
NPA-009	9	10.8	13.3	675	6.3	0.45			
NPA-012	12	14.4	10	1200	8.4	0.6			
NPA-018	18	21.6	6.7	2700	12.6	0.9			
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		
Insulation Resistance	1000MΩ min (at 500VDC)	Item 7 of IEC 61810-5
Dielectric Strength	50Hz 1000V	Item 6 of IEC 61810-5
Between contacts	50Hz 2000V Surge voltage:4kV	Item 6 and 8 of IEC 61810-5
Between contact and coil		
Shock resistance	Functional:147m/s ² 11ms Survival:980m/s ² 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°C ± 2°C 3 ± 0.5s	IEC68-2-20 Test Ta method 1
Ambient Temperature	-40~85°C	
Relative Humidity	5%~85% (at 40°C)	IEC68-2-3Test Ca
Mass	3g	

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

Dimensions

mm /inch

Dimensions

Mounting (Bottom view)

Wiring diagram (Bottom view)

NOTES 1) Dimensions are in millimeters.
2) Inch equivalents are given for general information only.
3) If not only one relay is used at the same place, the clearance between any two items may not be less than 1mm.