NPA

20.3×5.4×12.6

VDE 40008356

c UL us E158859

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
1 2 3 4 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		≤50mΩ (at 10mA/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.

Coil Parameter

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

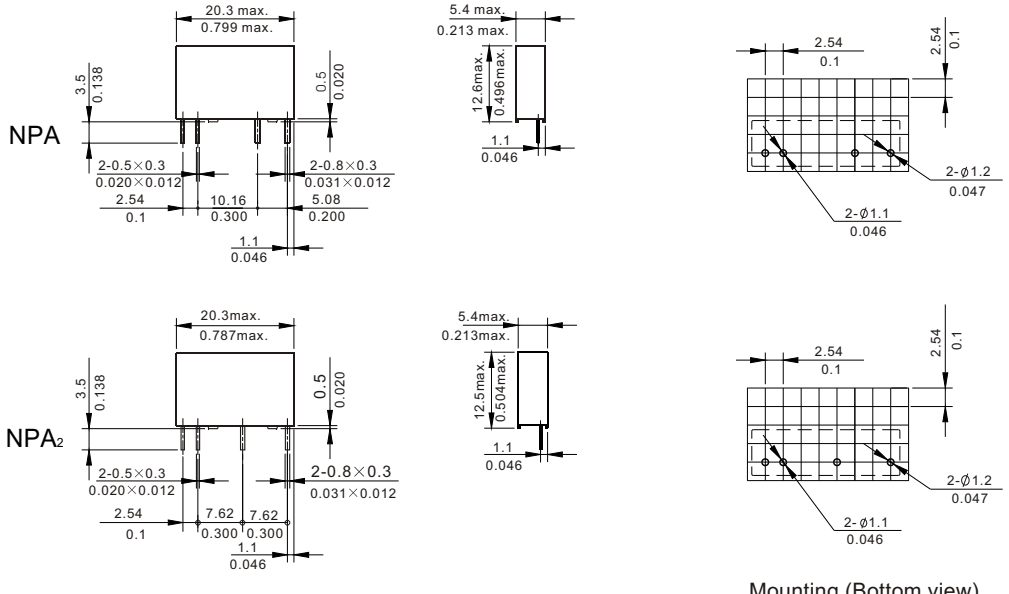
Insulation Resistance	1000MΩ min (at 500VDC)	Item 7 of IEC 60255-5
Dielectric Strength Between contacts Between contact and coil	 50Hz 1000V 50Hz 2000V Surge voltage:4kV	 Item 6 of IEC 60255-5 Item 6 and 8 of IEC 60255-5
Shock resistance	Functional:147m/s^2 11ms Survival:980m/s^2 6ms	IEC 68-2-27 Test Ea
Vibration resistance	10Hz~55Hz Functional double amplitude 2.5mm Survival:double amplitude 3.5mm	IEC 68-2-6 Test Fc
Terminals strength	5N	IEC 68-2-21 Test Ua1
Solderability	235℃±2℃ 3s±0.5s	IEC 68-2-20 Test Ta method 1
Ambient Temperature	-40℃~85℃	
Relative Humidity	5%~85% (at 40℃)	IEC 68-2-3 Test Ca
Mass	3g	

Safety approvals

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

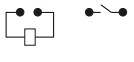
Dimensions

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) The terminal should be downward in installation and application.

4) If not only one relay is used at the same place, the clearance between any two items may not is less than 1mm.