NPA

20×5×12.5

VDE 40008356

c UL us E169380

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	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 3.12 of IEC255-7
Operational life	Electrical	1×10^5 5×10^4 (5A)	Item 3.30 of IEC255-7
	Mechanical	2×10^7	Item 3.31 of IEC255-7

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 IEC255-5
Dielectric Strength Between contacts Between contact and coil	 50Hz 1000V 50Hz 2000V Surge voltage:4kV	 Item 6 of IEC255-5 Item 6 and 8 of IEC255-5
Shock resistance	Functional:147m/s² 11ms Survival:980m/s² 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	-40~70℃	
Relative Humidity	5%~85% (at 40℃)	IEC68-2-3Test Ca
Mass	3g	

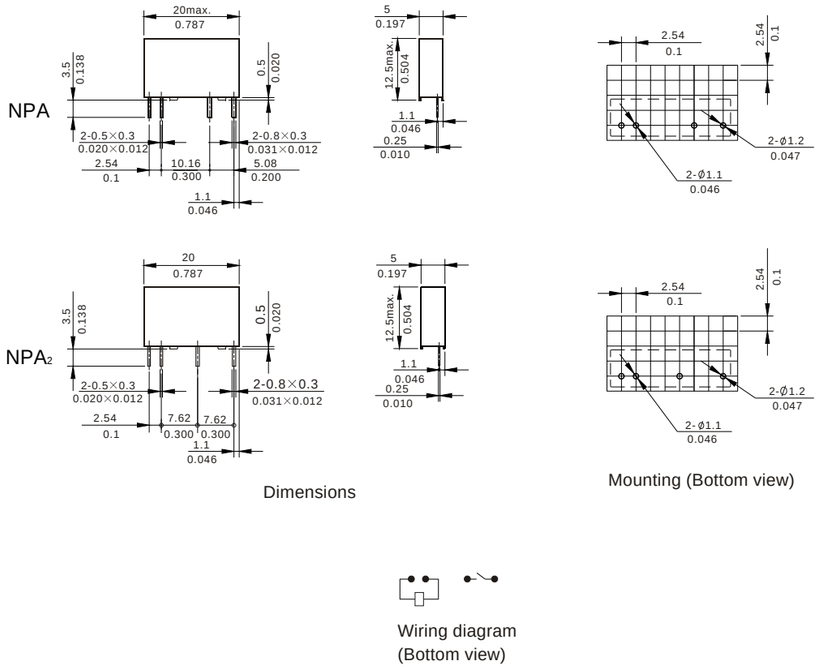
Qualification inspection:

Perform the qualification test as specified in the table Ⅳ of IEC255-19-1 and minimum sample size 24.

Safety approvals

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

Dimensions mm /inch



NOTES 1).Dimensions are in millimeters.
2).Inch equivalents are given for general information only.