NN80A SERIES



Industrial & Electrical Component

MAIN CONTACT DATA

Contact Arrangement	H (normal-open)			
Contact Material	Silver Alloy			
Contact Resistive	Max.: 5 mΩ (at 1A)			
Rating	DC450V 40A			
Min. Load Current	6V/1A			
Electrical Life (Switching)	20A/750V, 1000 OPS			
	40A/450V, 1000 OPS			
	10A/450V, 10000 OPS			
Electrical Life (ON)	35A/450V, 75000 OPS			
Mechanical Life	2×10 ⁵ (0.5s ON,0.5s OFF)			
Ambient temperature	-40°C∼+85°C			
Humidity	5~85% RH			

Note: The datas shown above are initial values at room temperature.

<u>NN80A</u> - <u>40</u> / <u>450</u> - <u>12</u> - <u>H P S F XXX</u>

(3)

(4) (5) (6) (7) (8) (9)

ORDERING INFORMATION

(2)

Power Relay

NN80A-40

• Unique magnetic arc-extinguishing design and 40A/450V breaking capability.

No.

- Unique contact design to support surge and high current resistant capability.
- Withstand voltage 4kV between high and low voltage.
- RoHS compliant.

MAIN CONTACT CHARACTERISTICS

Operate Time		30msec. Max.		
Release Time		10msec. Max.		
Initial breakdown voltage				
Coil & Contact		4000VAC (50/60Hz) for 1 min.		
Main & Auxiliary Contacts		4000VAC (50/60Hz) for 1 min.		
Insulation Resistance		Coil & Contact: Min.1000MΩ		
		Main & Auxiliary Contacts: Min.1000MΩ		
Impulse Voltage		Between Coil & Contact: 10kV(1.2x50µs)		
Shock:	Endurance	196 m/s ²		
	Damage	490 m/s ²		
Vibration	Sine	10 to 500Hz, 1.5mm D.A. 49m/s ²		
Unit weight		Approx. 50g		

① Model No.

- (2) Load Current: 40=40A
- ③ Load Voltage: 450=450 Vdc;750=750 Vdc
- (4) Coil Voltage:12=12Vdc, 24=24Vdc; 48=48Vdc
- (5) Main contact form: H (N/O)
- (6) Terminal mode:Nil=QC terminal;P=PCB terminal
- ⑦ Contact Material: S=AgSnO2+In2O3; T=AgNi
- (8) Mounting mode: Nil=Standard; F=Flange
- (9) Special custom code

(1)

e.g

NN80A-40

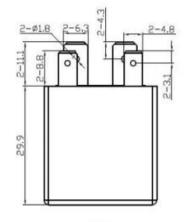
COIL DATA (at 20°C)

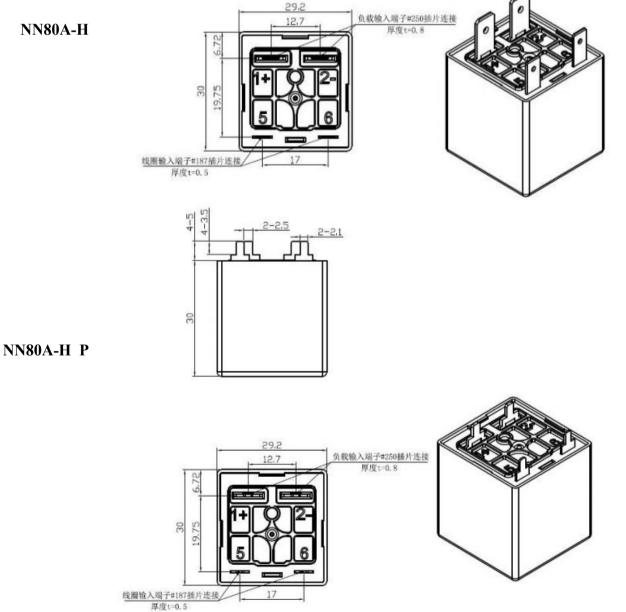
	Rated Voltage	Pick-up Voltage	Operate Voltage	Drop-out Voltage	Coil Resistance	Initial current * &	Initial Power * &
_		VDC (Max)	VDC	VDC (Min)	(Ω) (1±7%)	Rated Current (A)	Steady Power * (W)
	12VDC	9	9~14	1	48	0.2500	
_	24VDC	18	18~28	2	192	0.1250	3W
-	48VDC	36	36~56	4	768	0.0625	

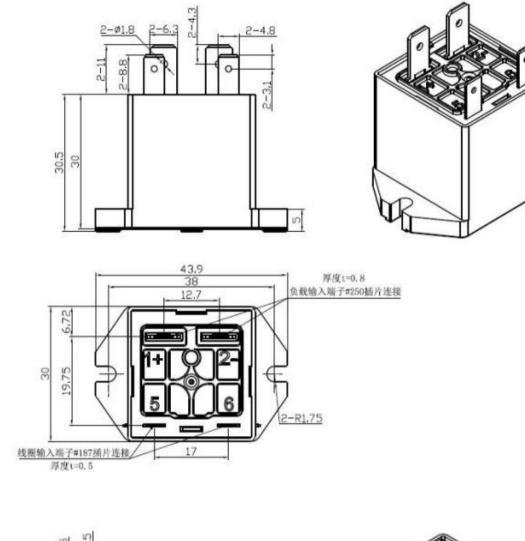
Note: * means at rated volage.

DIMENSIONS

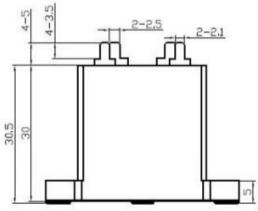
Unit: mm

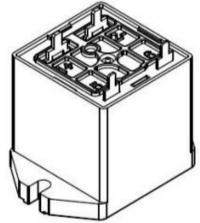


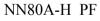


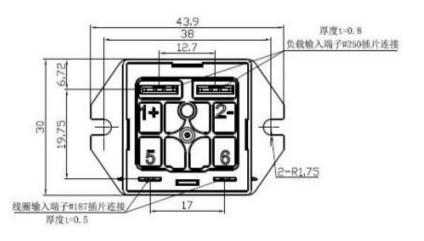


NN80A-H F

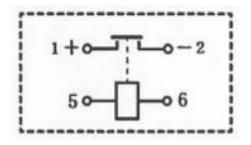








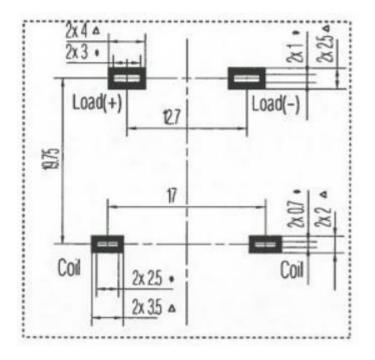
MOUNTING DIMENSION(Bottom view) :



Note 1: No polarity on the coil, but polarity on the load.

Note 2: All unspecified tolerance according to following table.

PCB board installation specification.



Note: The dimensions of * is the opening dimensions of PCB board.

The dimensions of \triangle is the dimensions of PCB pads.(For reference).

Note : All unspecified tolerance according to following table.

Outline dimensions hadn't specified tolerance				
Outline dimensions	Tolerance			
≤10	±0.3			
>10~50	±0.5			
> 50	±0.8			