NF FORWARD

NF106

NF106
26×26×22.7

NF106 Insulation bracket
26×26×22.7(+15.2)

Features

- Heavy contact load (50A).
- 1 Form A and 1 Form C configurations .
- Dust cover and washable type are available.
- PC board mounting and direct insert mounting available.
- Widely operated in automobile lamps, Rear-window defroster, air-conditioner, open circuit, fuel pump, cooling fan ,on-off control, etc.

Ordering Information

NF106	100	E	12	1	S	P	D	XXXX
1	2	3	4	5	6	7	8	9

1. Type:	NF106	6. Protection:	Nil = Dust cover; S = Sealed type;
2. Contact arrangement:	100 = 1A; 001 = 1C;	7. Terminal types:	Nil = Plug-in; P = PCB;
3. Contact material:	E = Ag alloy	8. Coil suppression:	Nil = Standard; D = Diode; R = Resistor;
4. Coil voltage:	12 = 12VDC; 24 = 24VDC;	9. Special:	XXXX = Letters and / or number for special customer design
5. Cover types:	Nil = Standard; 1 = Insulation bracket; 2 = Metal bracket; 3 = Shrouded (metal bracket);		

Contact Data

Contact Arrangement		1A(1H)（SPSTNO）,1C(1Z)（SPDT(B-M)）	
Contact Material		AgSnO Alloy	
Contact Rating (Resistive)		1A: 50A/14VDC 20A/28VDC	1C: NO:50A/14VDC,20A/28VDC NC:30A/14VDC,15A/28VDC
Max. Switching Power		700W	
Max. Switching Voltage		120VDC	Max. Switching Current: 50A
Contact Resistance		⩽ 30mΩ	Item 4 .12 of IEC 61810-7
Operation life	Electrical	10^5	Item 4 .30 of IEC 61810-7
	Mechanical	10^7	Item 4 .31 of IEC 61810-7

Coil Parameter

Dash numbers	Coil voltage VDC		Coil resistance Ω ±10%		Pick-up voltage VDC(max)	Release voltage VDC(min)	Coil power consumption (W)		Operate Time ms	Release Time ms
	Rated	Max.	Without resistor	With resistor			Without resistor	With resistor		
012-1600	12	15.6	90	80	65%of rated voltage	10%of rated voltage	Approx. 1.6	Approx. 1.8	⩽10	⩽10
024-1600	24	31.2	360	320						

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.

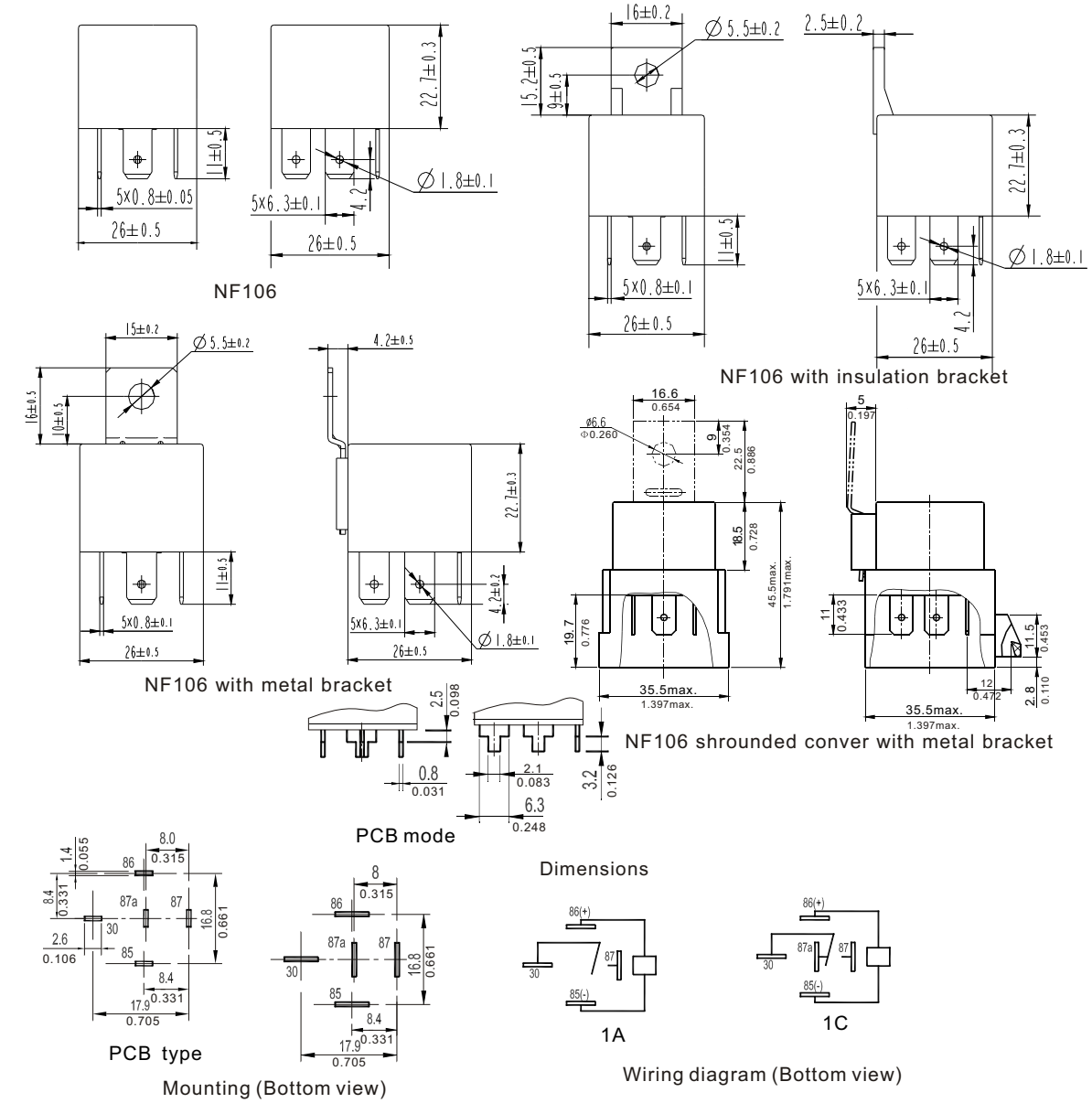
Operation condition

Insulation Resistance	100MΩ min (at 500VDC)	Item 4.11 of IEC 61810-7
Dielectric Strength Between open contacts Between contact and coil	 50~60Hz AC500V 1min 50~60Hz AC500V 1min	 Item 4.9 of IEC 61810-7 Item 4.9 of IEC 61810-7
Shock resistance	294m/s^2	Item 4.26 of IEC 61810-7
Vibration resistance	5~22.30Hz double amplitude 10mm 22.3~500Hz 98m/s^2	Item 4.28 of IEC 61810-7
Terminals strength	hole on(pull and press):⩾100N Anti-bending force(all directions):⩾10N	Item 4.24 of IEC 61810-7
Ambient Temperature	-40℃~125℃	
Relative Humidity	85% (at 40℃)	Item 4.16 of IEC 61810-7
Mass	35g	Item 4.7 of IEC 61810-7

Note: 1). When testing, coil terminals should be connected, If coil transient suppression is installed in relay .

Dimensions

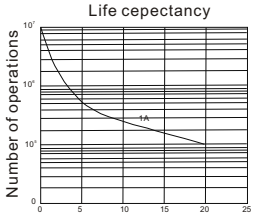
mm /inch



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

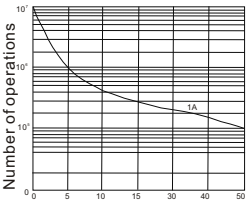
Reference Date

Life cepectancy



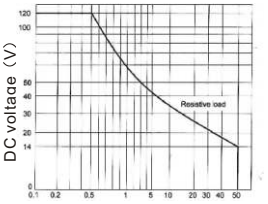
28VDC resistive load /
Switching current (A)

Life cepectancy



14VDC resistive load /
Switching current (A)

Max. DC load breaking capacity



DC current (A)