NF FORWARD

23.5×15.8×26

NF117

Features

- Switching capacity up to 35A.
- PC board mounting and insert mounting available.
- Suitable for automation system and automobile auxiliary etc.

Ordering Information

NF117	100	E	12	S	P	R	XXXX
1	2	3	4	5	6	7	8

1. Type:	NF117 = 30A Version NF117H = 35A Version	6. Terminal type:	Nil = Plug-in; P = PCB;
2. Contact arrangement:	100 = 1A (1.2W coil only); 001 = 1C (1.5W coil only);	7. Coil suppression:	Nil = Standard; D = Diode; R = Resistor
3. Contact material:	E = Ag alloy	8. Special:	XXXX = Letters and / or number for special custom design
4. Coil voltage:	12 = 12VDC; 24 = 24VDC;		
5. Protection:	Nil = Dust cover; S = Sealed type;		

Contact Data

Contact Arrangement		1A（SPSTNO） 1C（SPDT(B-M)）	
Contact Materia		AgSnO	
Contact Rating (resistive)		1A: 35A/14VDC; 30A/14VDC; 1C(NO, NC): 35A, 25A/14VDC; 30A, 20A/14VDC;	
Max. Switching Power		490W	
Max. Switching Voltage		75VDC	Max. Switching Current:35A
Contact Resistance or Voltage drop		≤50mΩ	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) (70%of rated voltage)	Release voltage VDC(min) (10% of rated voltage)	Coil power consumption W	Operate Time ms	Release Time ms
	Rated	Max.						
012-1200	12	15.6	120	8.4	1.2	1.2	≤10	≤7
024-1200	24	31.2	480	16.8	2.4			
012-1500	12	15.6	96	8.4	1.2	1.5	≤10	≤7
024-1500	24	31.2	384	16.8	2.4			

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.

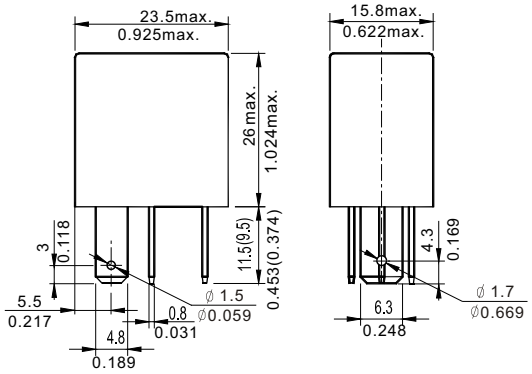
Operation condition

Insulation Resistance[1)]	100M min (at 500VDC)	Item 7 of IEC 60255-5
Dielectric Strength [1)] Between contacts Between contact and coil	 50Hz 500V 50Hz 1000V	 Item 6 of IEC 60255-5 Item 6 of IEC 60255-5
Shock resistance	100m/s² 11ms	IEC 68-2-27 Test Ea
Vibration resistance	10Hz~40Hz double amplitude 1.27mm	IEC 68-2-6 Test Fc
Terminals strength	8N 4N PC type	IEC 68-2-21 Test Ua1
Solderability	260°C ± 5°C for 5s ± 0.5s	IEC 68-2-20 Test Ta method 1
Ambient Temperature	-40 ~125°C	
Relative Humidity	85% (at 40°C)	IEC 68-2-3 Test Ca
Mass	18.5g	

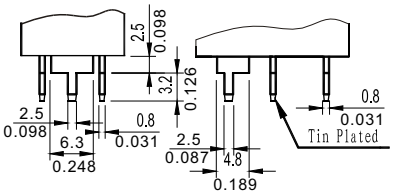
Note: 1). When testing, coil terminals should be connected, if coil transient suppression is installed in relay .

Dimensions

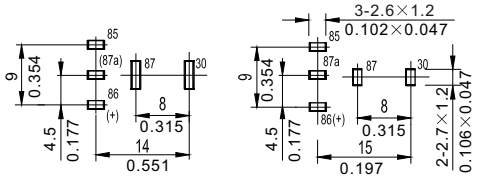
mm /inch



Dimensions

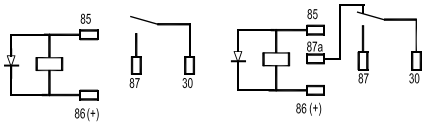


Note: Terminals as shown above are also available.



Plug in type PCB type

Mounting (Bottom view)



1A 1C

Wiring diagram (Bottom view)

NOTES 1).Dimensions are in millimeters.
2).Inch equivalents are given for general information only.
3).It is based on customer demand to have lead pin hole or not.

Reference Data