NF FORWARD



NF105

29 x 29 x 26.5 (+16)

RoHS compliant

Features

- Small size
- ISO based Terminal layout
- Contact load capacity upto 80A
- Plug-in or PCB terminals
- 24VDC version with contact gap >0.8mm
- Wide operating temperature range: -40°C to +125°C

Ordering Information								
NF105	001	<u>E</u>	<u>12</u>	1	<u>S</u>	P	<u>R</u>	XXXX
1	2	3	4	5	6	7	8	9
1. Type:		NF105		6. Pro	otection:		il = Dust cover S = Sealed	
2. Contact config	juration:	100 = 1NO 001 = 1CO		7. Tei	rminal type:		il = Plug-in = PCB	
3. Contact mater	ial:	E = Ag allo	y	0.00	:1 4		il Otanaland	
4. Coil voltage:		12 = 12VD 24 = 24VD	-		il transient ppression	D	il = Standard = Diode = Resistor	
5. Cover version	:	Nil = Standa 1 = Insulatio 2 = Metal bi	on bracket	9. Sp	ecial code:		XXX = Letters number for spe	

Contact Data

Contact Data						
Contact Arrangement		1A SPST		1C SPDT (B-M)		
Contact Material		AgŚnO				
Contact Current		80A, 14VDC		NO:80A, 14VDC; NC: 70A, 14VDC;		
Max. Switching Power		1120W				
Max. Switching Voltage		75VDC	Max. Switch	ing Current:80A		
Contact Resistance or Voltage drop		≤30mOhm	Item 4.12 of	IEC 61810-7		
Operation life	Electrical	10 ⁵	Item 4.30 of	Item 4.30 of IEC 61810-7		
	Mechanical	10 ⁷	Item 4.31 of	IEC 61810-7		

Note: Special high performance 24V version with contact gap >0.8mm; Limiting continous current at 125°C: NO/NC 15A/10A;

Coil Parameter

Model		oltage DC	Coil resistance Ω±10%	Pickup voltage VDC(max)	Release voltage VDC(min) (8.3% of rated voltage)	Coil power consumption W	Operate Time ms	Release Time ms
	Rated	Max.	52 <u>-</u> 10 /0					
Ctondord	12	16	80	7.8	1.2	1.8	<40	
Standard	24	24 31 320	15.6	2.4	1.0	≪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	100M Ω min (at 500VDC)	Item 7 of IEC 60255-5
Dielectric Strength		
Between contacts	50Hz 500V	Item 6 of IEC 60255-5
Between contact and coil	50Hz 1000V	Item 6 of IEC 60255-5
Shock resistance	147m/s² 11ms	IEC 68-2-27 Test Ea
Vibration resistance	10Hz~40Hz double amplitude 1.5mm	IEC 68-2-6 Test Fc

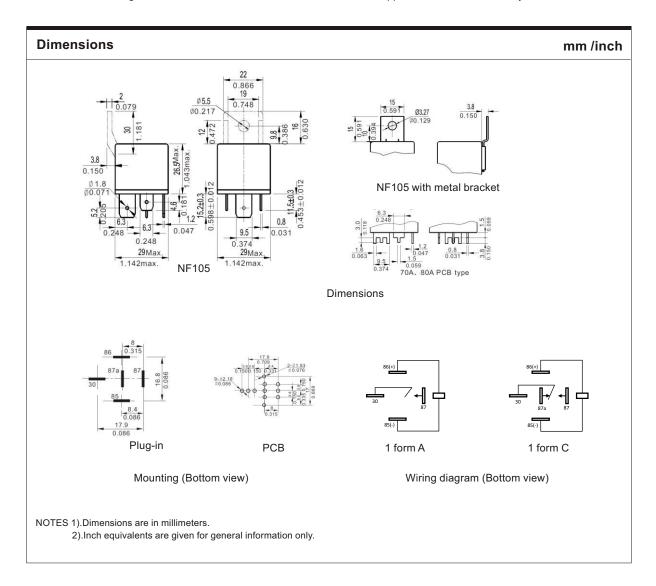




Operation condition (continued)

Terminals strength	8N (4N PCB terminal)	IEC 68-2-21 Test Ua1
Solderability	235℃ ±2℃ 3s±0.5s	IEC 68-2-20 Test Ta method 1
Ambient Temperature	-40℃~125℃	
Relative Humidity	85% (at 40℃)	IEC 68-2-3 Test Ca
Mass	46g (standard cover) / 48g (with bracket)	
Packaging	20pcs / box; 100pcs / box; 400pcs / carton;	

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



All technical performance data apply to the relay as such, specific conditions of the individual application are not considered. Please always check the suitability of the relay for your intended purpose. We do not assume any responsibility or inability for not complying herewith. We recommend to complete our questions do not assume any responsibility for responsibility for the application of the product remains with the customer only. All specifications are subject to change without notification, in digition of NF Forward OSA Inc. are reserved.