



# NF125

## Single & Twin

14,3 x 7,5 (15,7) x 13,8 RoHS compliant

#### Features

Small size, light weight.

Low power consumption.

- Reflow soldering version available (opened vent hole, high heat resistance)

• Switching capacity up to 25A motor lock load.

- Sealed washable or flux protection for reflow soldering (open vent hole type)

• Twin type (2 relays in 1 case) is available (independent 2 circuits)

- Suitable for DC motor control for automotive comfort applications (door lock, power window, sunroof, seat)

### Ordering Information

NF125	<u>001</u>	E	<u>12</u>	<u>L</u>	<u>R</u>	<u>T</u>	XXXX	
1	2	3	4	5	6	7	8	
1. Type:		NF125 = Single NF125T = Twin		6. Protection:		Nil = Standard R = Reflow solo	lering version	
2. Contact configuration:		001 = 1CO (1 form C)		7. Packaging:		Nil = Standard T = Tape and reel packaging		
3. Contact material:		E = Ag alloy						
4. Coil voltage: 12 = 12VDC			8. Special code:		XXXX = Letters and / or number for special customer design			
5. Charachteristics	:	Nil = Standard L = Low operatir	ng voltage					

#### **Contact Data**

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Contact Arrangement		1C SPDT (B-M)			
Contact Material		AgSnO <sub>2</sub>			
Contact Current		25A motor lock (14VDC)			
Max. Switching Power		480W			
Max. Switching Voltage		16VDC	Max. Switching Current:30A		
Contact Resistance or Voltage drop		< 250mV (at 10A)	Item 4.12 of IEC 61810-7		
Operation life	Electrical	10 <sup>5</sup>	Item 4.30 of IEC 61810-7		
	Mechanical	10 <sup>6</sup>	Item 4.31 of IEC 61810-7		

#### **Coil Parameter**

Model	Coil v Vi	oltage DC	Coil resistance $0 \pm 10\%$	Pickup voltage VDC(max)	Release voltage VDC(min) (8.3% of rated voltage)	Coil power consumption W	Operate Time ms	Release Time ms
Ratec	Rated	Max.	52 <u>-</u> 10 /0					
Standard	12 12	16 16	225 225	7.2 7.2	1.0 1.0	0.64 2 x 0.64	<10	≪5
L	12 12	16 16	180 180	6.5 6.5	1.0 1.0	0.80 2 x 0.80	<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**

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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 500V	Item 6 of IEC 60255-5
Shock resistance	98m/s <sup>2</sup> 11ms	IEC 68-2-27 Test Ea
Vibration resistance	10Hz~55Hz Acceleration: 43.1m/s <sup>2</sup>	IEC 68-2-6 Test Fc

All specifications subject to change. Consult NF FORWARD for latest specifications: www.nfforward.com

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### **Operation condition (continued)**

Terminals strength	5N	IEC 68-2-21 Test Ua1
Solderability	260℃±5℃ 5s±0.5s	IEC 68-2-20 Test Ta method 1
Ambient Temperature	-40℃~85 ℃ (105°C reflow version only)	
Relative Humidity	85% (at 40℃)	IEC 68-2-3 Test Ca
Mass	4.1g / 8.2g	
Packaging	NF125: 80pcs / tube; 2400pcs / box	NF125T: 36pcs / tube; 1080pcs / box



# **NF FORWARD**

### **Reference Data (continued)**





Disclaimer

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 itability for not complying herewith. We recommend to complete our questionnaire and to request our technical service. Any responsibility for the application of the product remains with the ustomer only. All specifications are subject to change without notification. All rights of NF Forward GMA inc. are reserved.

