

Features

- Small sizes 15.5 x 11 x 11.5mm
- High sensitivity 200mW
- Available with the two different terminal layouts
- UL/CUL approved
- Special design for alarm, security system, office equipment, medical equipment
- Comply with RoHS-Directive 2011/65/EU



Type List

Terminal style	Contact form	Terminal Layout	Designation (provided with)	
			Flux tight type	Sealed type washable
PCB Terminal	1C (SPDT)	Standard	NF42 001 A ..	NF42 001 A .. W
		Different	NF42A 001 A ..	NF42A 001 A .. W

Ordering Information

NF42 001 A 24 W

1 2 3 4 5

- | | | | |
|---------|-----------------------------------|----------|---|
| 1. NF42 | -- Standard type | 4. | -- Coil voltage: 5=5V; 6=6V; 9=9V; 12=12V; 18=18V; 24=24V |
| NF42A | -- with different terminal Layout | 5. Blank | -- Flux tight |
| 2. 001 | -- Single pole double throw - 1CO | W | -- Sealed washable |
| 3. A | -- Ag + Au coated | | |

Contact Data

Type of contact	Single contact
Configuration	1CO
Rated load	3A/30VDC; 3A/125VAC
Maximum switching current	3A
Maximum switching voltage	60VDC / 220VAC
Maximum switching capacity	90W / 375VA
Contact resistance	50mΩ
Contact material	Ag Au coated

Coil rating (DC @+23°C)

Rated voltage (V)	Rated current (mA) ±10%	Coil resistance (Ω) ±10%	Max. continuous voltage (V)	Pick up voltage	Drop out voltage	Power consumption at rated voltage (mW) (mW)
5	40	125	100 % of rated voltage	75 % of rated voltage	10 % of rated voltage	200
6	33.3	180				
9	22.2	405				
12	16.6	720				
18	11.1	1620				
24	8.3	2880				

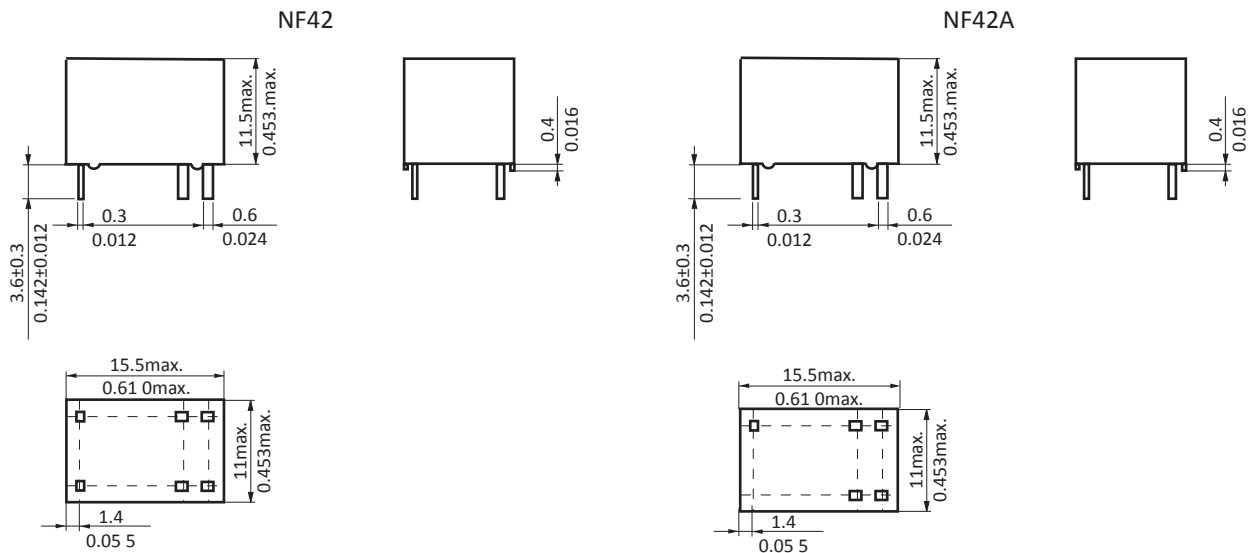
Specification

Mechanical life	10x10 ⁶ cycles	
Electrical life at rated load	1x10 ⁵ cycles	
Operate Time	5ms Max.	
Release Time	5ms Max.	
Dielectric strength	Between coil and contacts	500V, 50/60Hz, 1min
	Between open contacts	500V, 50/60Hz, 1min
Vibration resistance (10..55Hz) double amplitude	Operation extremes	1.5mm
	Shock resistance	10g
Operating ambient temperature	-25~+70°C	
Approvals	UL/CUL	
Weight	3.5g	

Safety Approval

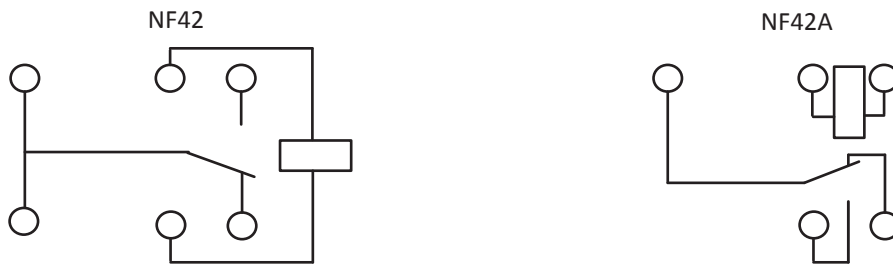
Certified	UL / CUL
Ratings	3A/125VAC; 3A/30VDC

Outline Dimensions



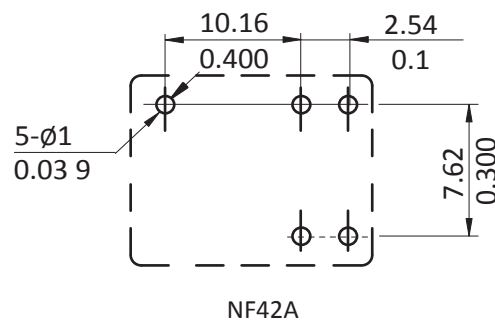
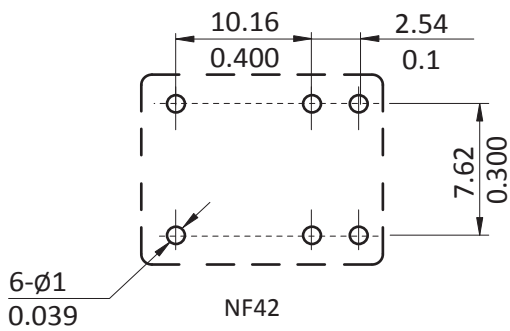
Wiring Diagram

BOTTOM VIEW



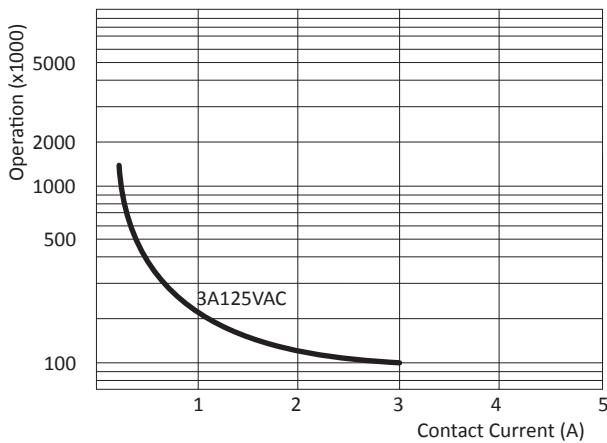
PC Board Layout

BOTTOM VIEW

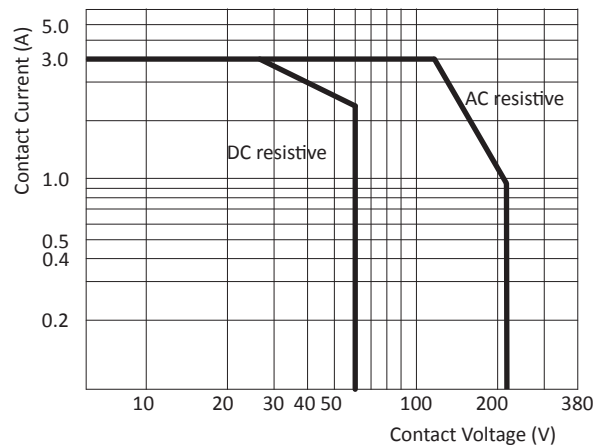


Engineering Data

Life expectancy



Contact switching capacity



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 liability 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 customer only. All specifications are subject to change without notification. All rights of NF Forward GmbH are reserved.