



15,5 x 11 x 11,5

RoHS compliant

UL E352915

NF42

Features	Application Examples
<ul style="list-style-type: none"> ● Small size singal relay with 3A contacts ● 1 form C contact configuration (1 CO) ● 200mW coil ● Two different terminal layouts ● Sealed washable ● UL / CUL approved 	<ul style="list-style-type: none"> ● Security devices, alarm ● Office equipment ● Signal intercommunication system ● Measurement and controls

Ordering Information				
<u>NF42</u>	<u>001</u>	<u>A</u>	<u>24</u>	<u>W</u>
1	2	3	4	5
1. Type:	NF42 NF42A		4. Coil voltage:	5 = 5VDC; 6 = 6VDC; 9 = 9VDC; 12 = 12VDC; 18 = 18VDC; 24 = 24VDC;
2. Contact configuration:	001 = 1CO (1 form C)		5. Protection:	Nil = Flux tight W = Sealed washable
3. Contact material:	A = Ag alloy (Au coated)			

Contact Data

Contact Arrangement	1 form C (CO)
Contact Material	Ag alloy + Au coated (Cd free)
Contact Rating	3A, 125VAC / 3A, 30VDC
Max. Switching Voltage	220VAC / 60VDC
Max. Switching Current	3A
Min. Switching Capacity	375VA / 90W
Contact Resistance	≤ 50mΩ (by voltage drop 6VDC/1A)
Electrical endurance	10 ⁵
Mechanical endurance	10 ⁷

Coil Rating (at 23°C)

Rated Coil Voltage [VDC]	Coil Resistance R[Ω] ± 10%	Pull-in Voltage [VDC]	Drop-out Voltage [VDC]	Coil Power [mW]	Max. Applied Voltage [VDC]
5	125	Max.75% of nominal voltage (Initial)	Min.10% of nominal voltage (Initial)	200	Max.100% of nominal voltage (Initial)
6	180				
9	405				
12	720				
18	1620				
24	2880				

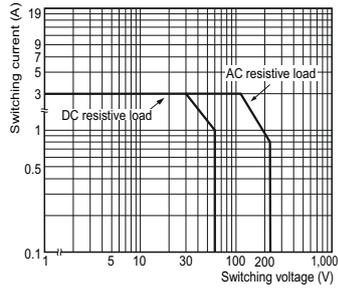
Specification

Initial Dielectric Strength	between open contacts 500Vrms, 50/60Hz for 1 min
	between contact and coil 1000Vrms, 50/60Hz for 1 min
Environmental Protection	RTII (Flux tight) / RTIII (Sealed)
Operate Time / Release Time	Max. 5ms / Max. 5ms
Vibration Resistance (Malfunction)	10 to 55 to 10 Hz, 1.5mm double amplitude
Shock Resistance (Malfunction)	Energized 98,1m/s ² , De-energized 98,1m/s ²
Ambient Operating Temperature*	-25 to +70°C
Ambient Operating Humidity*	≤ 85%
Weight	Approx. 3.5g

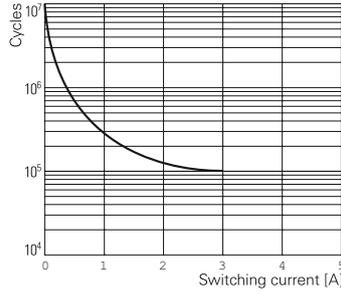
*1. Without icing or condensation

Engineering Data

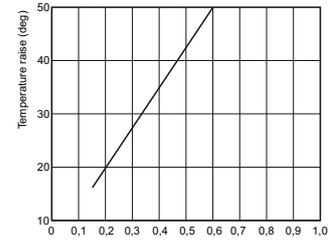
Max. switching capacity



Electrical Endurance



Coil Temperature Rise



Safety approvals

Approvals	UL File No. E352915
NF42	3A / 30VDC; 3A / 125VAC;

Dimensions

mm

NF42 001A...

Max. 15,5
Max. 11
Max. 11,5
3,6 ± 0,3
1,4
0,4

PCB Mounting Holes
(Bottom View)
Tolerance: ±0,3mm

10,16 2,54
Ø1
7,62

Wiring Diagram

NF42A 001A...

Max. 15,5
Max. 11
Max. 11,5
3,6 ± 0,3
1,4
0,4

PCB Mounting Holes
(Bottom View)
Tolerance: ±0,3mm

10,16 2,54
Ø1
7,62

Wiring Diagram

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 & NF Forward USA Inc. are reserved.