

## Features

- Low profile PCB automotive relay.
- High rating 20A/14VDC.
- General purpose application for motor



## Ordering Information

NF108 001 T E 12 S XXXX

1 2 3 4 5 6 7

- |    |       |                              |    |       |   |
|----|-------|------------------------------|----|-------|---|
| 1. | NF108 | -- Relay Series              | 5. | 12    | -- 12VDC Coil Voltage                                 |
|    |       |                              |    | 24    | -- 24VDC Coil Voltage                                 |
| 2. | 100U  | -- 1U (Single Relay only)    | 6. | Blank | -- Flux tight   |
|    | 001   | -- 1C                        |    | S     | -- Sealed washable                                    |
| 3. | Blank | -- Single                    | 7. | XXX   | -- Letters and/or numbers for special customer design |
|    | T     | -- Twin                      |    |       |   |
| 4. | E     | -- Contact Material Ag alloy |    |       |   |

## Contact Data

Type of contact	Single or Twin Contact	
Configuration	1CO / 1U / 2x1CO	
Contact rating	1C-Form	20A / 15A, 14VDC
	1U-Form	2 x 10A, 14VDC
Max. switching power	280W	
Max. switching voltage	16VDC (max.20A)	
Contact Resistance	≤100 mΩ	
Contact material	Ag alloy	

## Coil rating (DC @+23°C)

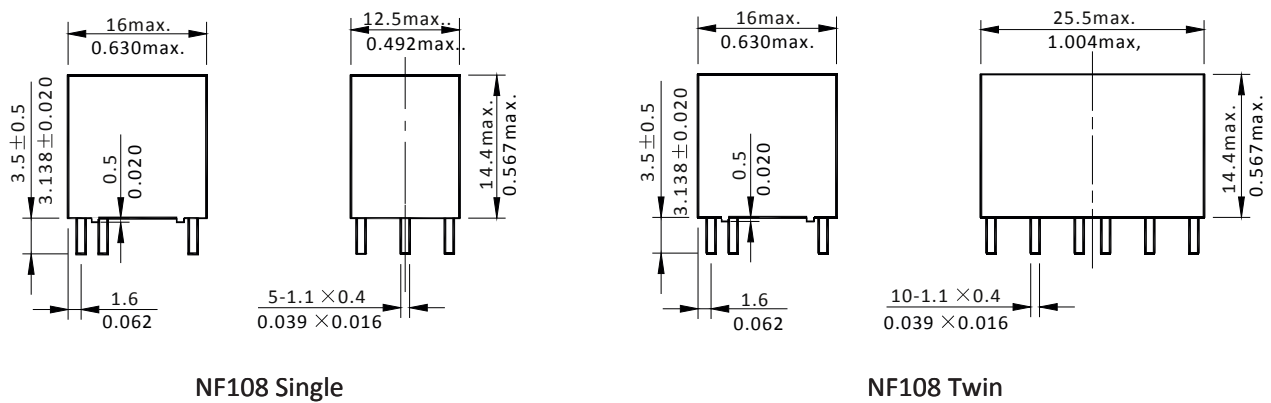
$U_N$ (VDC)	R (Ω) ± 10%	Pull-in Voltage $U_{PI}$ (VDC)	Drop-out voltage $U_{DO}$ (VDC)	Coil power $P_{coil}$ (W)
Rated				
12	210	7.3 / 9.0 (at 80°C)	0.9	0.69
24	840	14.6 / 18.1 (at 80°C)	1.8	

- CAUTION: 1. The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.  
2. Pull-in and drop-out voltage are for test purposes only and not to be used as design criteria.

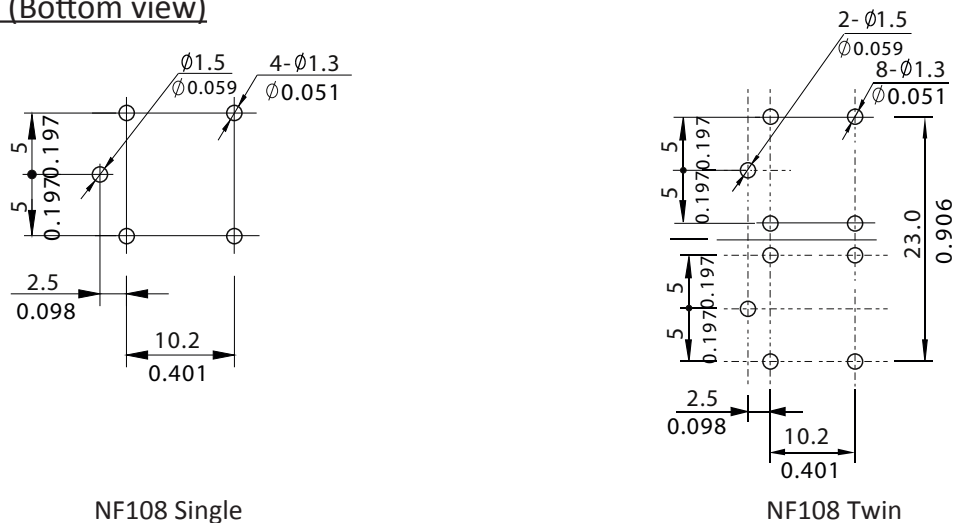
## Specification

Mechanical life (frequency 18000 oper. / h)		10 <sup>7</sup> Oper.
Electrical life (frequency 360 oper. / h)		10 <sup>5</sup> Oper.
Operating time / Release time		≤10ms / ≤5ms
Insulation Resistance		100MΩMin (at 500VDC)
Dielectric strength contacts/ coil		500 VAC <sub>rms</sub>
Dielectric strength open contacts		500 VAC <sub>rms</sub>
Ambient temperature (no freezing)		-40°C...+105°C
Vibration resistance		10 ~ 55Hz; double amplitude 1.5mm
Shock resistance		100m/s <sup>2</sup> 11ms
Dimensions	NF108 Single	16.0 x 12.5 x 14.4
	NF108 Twin	16.0 x 25.5 x 14.4
Weight	NF108 Single	approx. 5.5g
	NF108 Twin	approx. 11g

## Dimension (Bottom view)



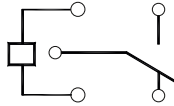
## Mounting (Bottom view)



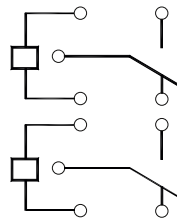
Notes: 1) Dimensions are in millimeters.  
 2) Inch equivalents are given for general information only.

## Wiring Diagram

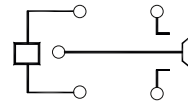
Bottom View



1C



2x1C



1U

### 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.