

## Features

- Low profile automotive relays for Micro-ISO terminal
- Compact and high-capacity load switching up to 25A
- High temperature withstand up to 105°C
- General purpose application for head lamp, blower fan, defogger, etc.



## Ordering Information

NF115 100 E 12 S D XXXX

1 2 3 4 5 6 7

- |          |                              |          |   |
|----------|------------------------------|----------|---|
| 1. NF115 | -- Relay Series              | 5. Blank | -- Dust cover   |
| 2. 100   | -- 1A                        | S        | -- Sealed washable                                    |
| 3. E     | -- Contact Material Ag alloy | 6. Blank | -- Standard   |
| 4. 12    | -- 12VDC Coil Voltage        | D        | -- Diode  |
|          |                              | R        | -- Resistor   |
|          |                              | 7. XXXX  | -- Letters and/or numbers for special customer design |

## Contact Data

Type of contact	Single Contact	
Configuration	1A	
Contact rating	1A-Form	25A, 14VDC
Max. switching power	350W	
Max. switching voltage	75VDC (max.25A)	
Contact Resistance	≤50 mΩ	
Contact material	Ag alloy	

## Coil rating (DC @+23°C)

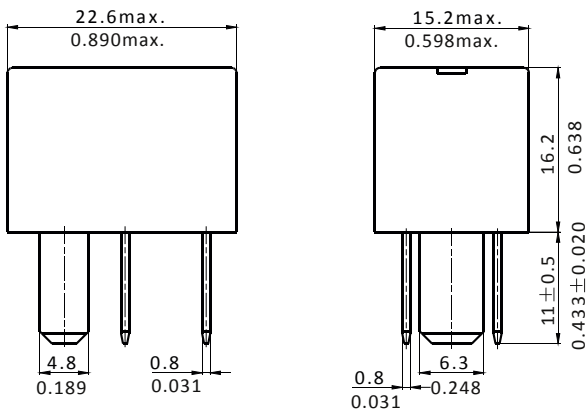
U <sub>N</sub> (VDC)	R (Ω) ± 10%	Pull-in Voltage U <sub>PI</sub> (VDC)	Drop-out voltage U <sub>DO</sub> (VDC)	Coil power P <sub>coil</sub> (W)
Rated				
12	180	7	0.6	0.8

- 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.

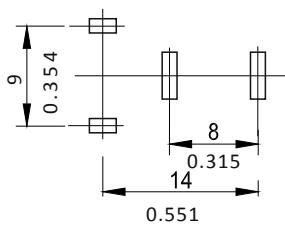
## Specification

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 / ≤10ms
Insulation Resistance		20MΩ Min (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	Function	10 ~ 100Hz; 44.1 m/s <sup>2</sup>
	Survival	100 ~ 500Hz; 44.1 m/s <sup>2</sup>
Shock resistance	Function	100m/s <sup>2</sup> 11ms
	Survival	1000m/s <sup>2</sup> 11ms
Dimensions		22.7 x 15.2 x 16.2
Weight		approx. 15g

## Dimension (Bottom view)



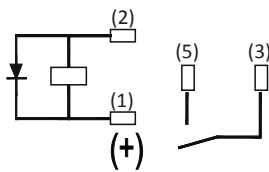
## Mounting (Bottom view)



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

## Wiring Diagram

Bottom View



### 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.