

## Features

- High rating Micro ISO automotive relays.
- Compact and high-capacity 35A load switching.
- Surge suppression, with diode or resistor type available.
- General purpose application for fan motor, heater, head lump, air compressor, ABS, blower fan, defogger, etc.



## Ordering Information

NF117	100	E	12	S	P	D	XXXX	
1	2	3	4	5	6	7	8	
1.	NF117	-- 30A Version					5. Blank	-- Dust cover
	NF117H	-- 35A Version					S	-- Sealed washable
2.	100	-- 1A					6. Blank	-- Plug in
	001	-- 1C					P	-- PCB
3.	E	-- Contact Material Ag alloy					7. Blank	-- Standard
							D	-- Diode
							R	-- Resistor
4.	12	-- 12VDC Coil Voltage					8. XXXX	-- Letters and/or numbers for special customer design

## Contact Data

Type of contact	Single Contact	
Configuration	1A/1C	
Contact rating	1A-Form	30A, 14VDC (Standard) ; 35A, 14VDC (High Power)
	1C Form NO/NC	30A/25A, 14VDC (Standard) ; 35A/25A, 14VDC (High Power)
Max. switching power	490W	
Max. switching voltage	75VDC (max.35A)	
Contact Resistance	≤50 mΩ	
Contact material	Ag alloy	

## Coil rating (DC @+23°C)

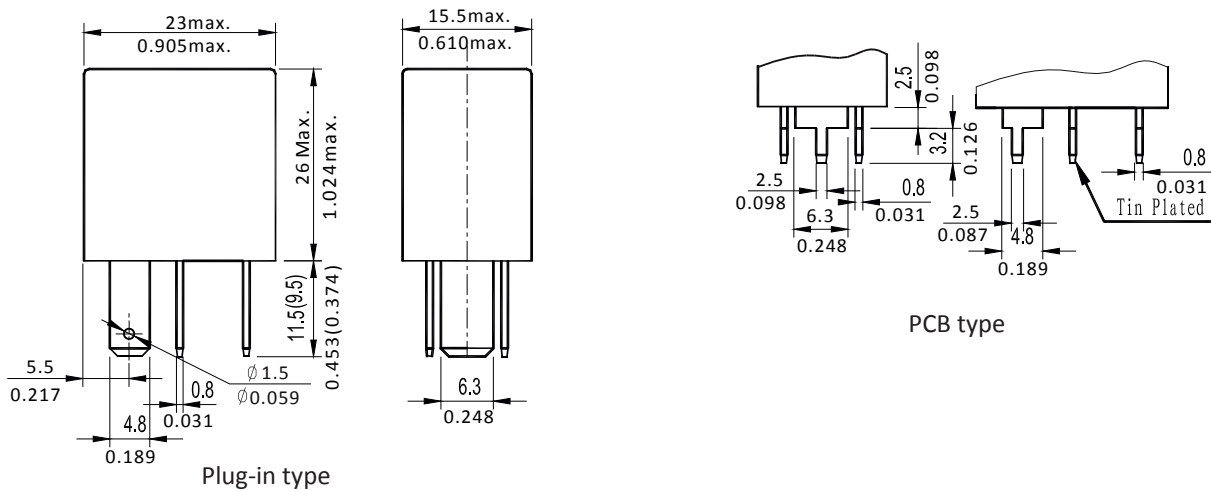
	U <sub>N</sub> (VDC)	R (Ω) ± 10%	Pull-in Voltage U <sub>PI</sub> (VDC)	Drop-out voltage U <sub>DO</sub> (VDC)	Coil power P <sub>coil</sub> (W)
	Rated				
1A-Form	12	120	8.4	1.2	1.2
	24	480	16.8	2.4	
1C-Form	12	96	8.4	1.2	1.5
	24	384	16.8	2.4	

- 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 / ≤7ms
Insulation Resistance	100MΩ Min (at 500VDC)
Dielectric strength contacts/ coil	1000 VAC <sub>rms</sub>
Dielectric strength open contacts	500 VAC <sub>rms</sub>
Ambient temperature (nofreezing)	-40°C...+125°C
Vibration resistance	10 ~ 100Hz; double amplitude 1.27mm
Shock resistance	100m/s <sup>2</sup> 11ms
Dimensions	23 x 15.5 x 26
Weight	approx. 18.5g

## Dimension (Bottom view)



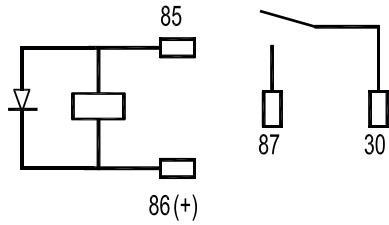
## Mounting (Bottom view)



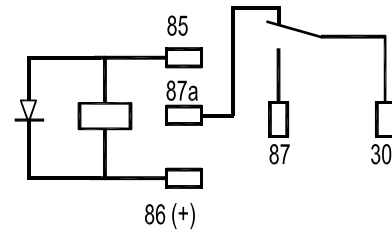
- Notes: 1) Dimensions are in millimeters.  
 2) Inch equivalents are given for general information only.

## Wiring Diagram

Bottom View



1A



1C

### 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.