

Features

- ISO 280 footprint automotive relay.
- High rating up to 35A at 125°C
- Optional to be equipped with diode or resistor.
- General purpose applications for automotive in power control box.



Ordering Information

NF135 100 E 12 D XXXX

1 2 3 4 5 6 7

- | | | | |
|----------|-----------------|----------|---|
| 1. NF135 | -- Relay Series | 5. Blank | -- Dust cover |
| 2. 100 | -- 1A | 6. Blank | -- Standard |
| 001 | -- 1C | D | -- Diode |
| | | R | -- Resistor |
| 3. E | -- Ag alloy | 7. XXXX | -- Letters and/or numbers for special customer design |
| 4. 12 | -- 12VDC | | |
| 24 | -- 24VDC | | |

Contact Data

Type of contact	Single Contact	
Configuration	1A / 1C	
Contact rating	1A-Form	35A, 14VDC
	1C-Form	NO:35A / NC 25A, 14 VDC
Max. switching power	560W	
Max. switching voltage	75VDC (max.40A)	
Max. continuous current	NO:40A, NC:35A	
Contact resistance	≤100mΩ (1A, 6VDC)	
Contact material	Ag alloy	

Coil rating (DC @+23°C)

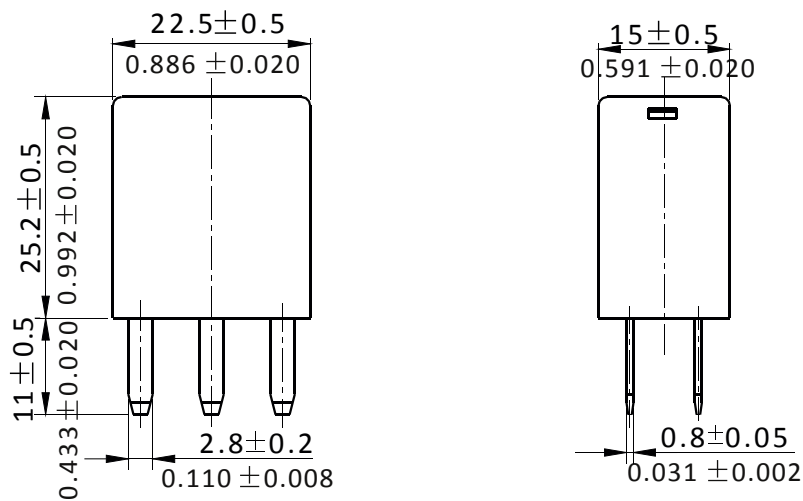
U_N (VDC) Rated	R (Ω) ± 10%	Pull-in Voltage U_{PI} (VDC)	Drop-out voltage U_{DO} (VDC)	Coil power P_{Coil} (W)
12	109	7.2	0.6	1.3
24	436	14.4	2.4	1.3

- 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

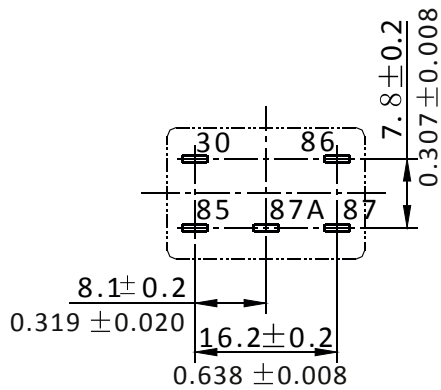
Mechanical life (frequency 18000 oper. / h)	10 ⁷ Oper.
Electrical life (frequency 360 oper. / h)	10 ⁵ Oper.
Operating time / Release time	≤5ms / ≤2ms
Insulation Resistance	100MΩ Min (at 500VDC)
Dielectric strength contacts/ coil	500 VAC _{rms}
Dielectric strength open contacts	500 VAC _{rms}
Ambient temperature (nofreezing)	-40°C...+125°C
Vibration resistance	10 ~ 100 Hz, double amplitude 1.27mm 40 ~ 70 Hz, 49m/s ² 70 ~ 100 Hz, double amplitude 0.5mm 70 ~ 100 Hz, 98m/s ²
Shock resistance	200m/s ² 11ms
Dimensions	22.5 x 15 x 25
Weight	approx. 21g

Dimension (Bottom view)



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

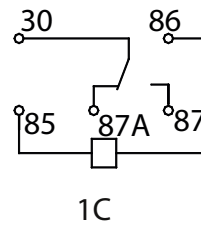
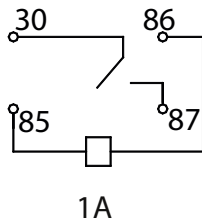
Mounting (Bottom view)



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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.