

Features

- 70A high power automotive relay.
- High temperature endurance up to 105° C.
- Optional to be equipped with protection diode or resistor.
- General purpose applications for ABS control, cooling fan, energy management, engine control, glow plug, heated front screen, ignition, etc.



Ordering Information

NF105 100 E 12 1 P D XXXX

1 2 3 4 5 6 7 8

- | | | | |
|-----------|-------------------------------------------|----------|-------------------------------------------------------|
| 1. NF105 | -- Type | 6. Blank | -- Plug-in type; Mini ISO |
| 2. 100 | -- Single pole normaly open, 1A | 7. Blank | -- Standard |
| 3. E | -- Contact Material Ag alloy | D | -- Diode |
| | | R | -- Resistor |
| 4. 12, 24 | -- Coil Voltage [VDC] | 8. XXXX | -- Letters and/or numbers for special customer design |
| 5. Blank | -- Standard cover | | |
| 1 | -- insulation bracket (Only plug-in type) | | |

Contact Data

Type of contact	Single Contact	
Configuration	1A/1C	
Contact rating	NF105 1A-Form	70A, 14VDC 50A, 14VDC (at 85°C)
Max. switching power	980W	
Max. switching voltage	75VDC (max. 80A)	
Contact Resistance	≤200mV (at 70A)	
Contact material	Ag alloy	

Coil rating (DC @+23°C)

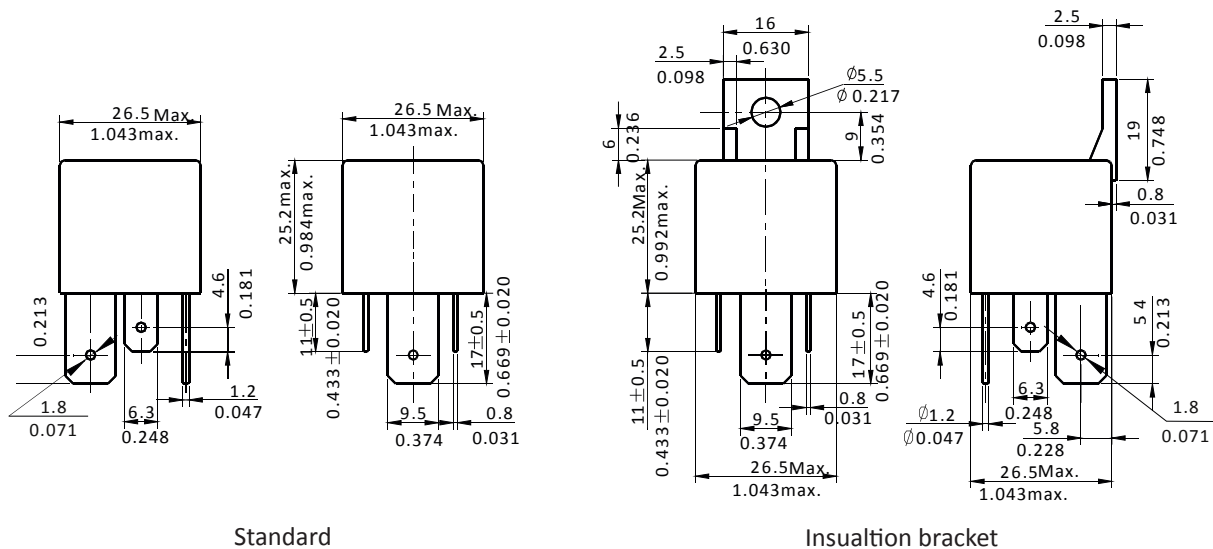
U _N (VDC)	R (Ω) ± 10%	Pull-in Voltage U _{PI} (VDC)	Drop-out voltage U _{DO} (VDC)	Coil power P _{coil} (W)
Rated				
12	90	7.2	1.6	1.6
24	360	14.4	3.2	

- 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		≤7ms / ≤2ms
Insulation Resistance		100MΩMin (at 500VDC)
Dielectric strength contacts/ coil		500 VAC _{rms}
Dielectric strength open contacts		500 VAC _{rms}
Ambient temperature (nofreezing)		-40°C...+105°C
Vibration resistance		20 ~ 500Hz; double amplitude 1.8mm
Shock resistance		30m/s ² 6ms
Dimensions	Standard	26.5 X 26.5 X 25.2
	With bracket	26.5 X 26.5 X 41.2
Weight		approx. 36g

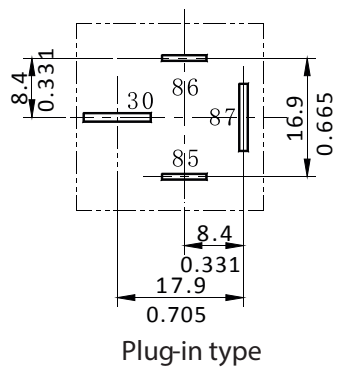
Dimension / Mounting (Bottom view)



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

Mounting

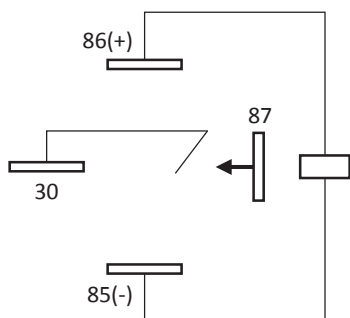
Bottom View



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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.