

Features

- 1 pole 16A, 1 form C(CO) or 1 form A(NO) power relay
- Bistable coil, single and double coils available
- 5kV/8mm coil-contact insulation
- UL insulation system: Class F
- Ambient temperature 85°C
- Outline dimension: 29 x 12.7 x 15.7mm

RoHS compliant

Typical Applications

- Domestic appliances
- Smartmeter control
- Lighting control

Ordering Information

NF75L	100	E	D	24	S	XXXX
1	2	3	4	5	6	7

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|----------------------|---|----------------|---|
| 1. Type: | NF75L | 5. Coil code: | 5 = 5VDC
12 = 12VDC
24 = 24VDC |
| 2. Configuration: | 100 = SPST-1NO (1A)
001 = SPDT-1CO (1C) | 6. Protection: | Nil = Flux tight
S = Plastic sealed |
| 3. Contact material: | E = Ag alloy (Cd free) | 7. Special: | XXXX = Letters and / or numbers for special customer design |
| 4. Contact rating: | Nil = Single coil version
D = Dual coil version
DR = Dual coil version with reversed polarity | | |

Contact Data

Type of contact	Single contact
Configuration	1NO / 1CO
Contact rating	16A / 250VAC
Contact resistance	≤100 mΩ (by 6VDC/1A @ room temperature)
Contact material	Ag alloy (Cd free)

Coil Rating (@+23°C)

Rated coil voltage	Coil resistance	Switching voltage	Pulse magnitude	Coil power	Coil type
U_N [VDC]	R_{coil} [Ω]±10%	$U_{pull-in}$ [VDC]	t_{pulse} [ms]	P_{coil} [W]	
5	62.5	70% or less of nominal voltage (inital)	≥30	Approx. 0.4	Single coil
12	360				
24	1440				
5	2 x 42			Approx. 0.6	Dual coil
12	2 x 240				
24	2 x 960				

Specification

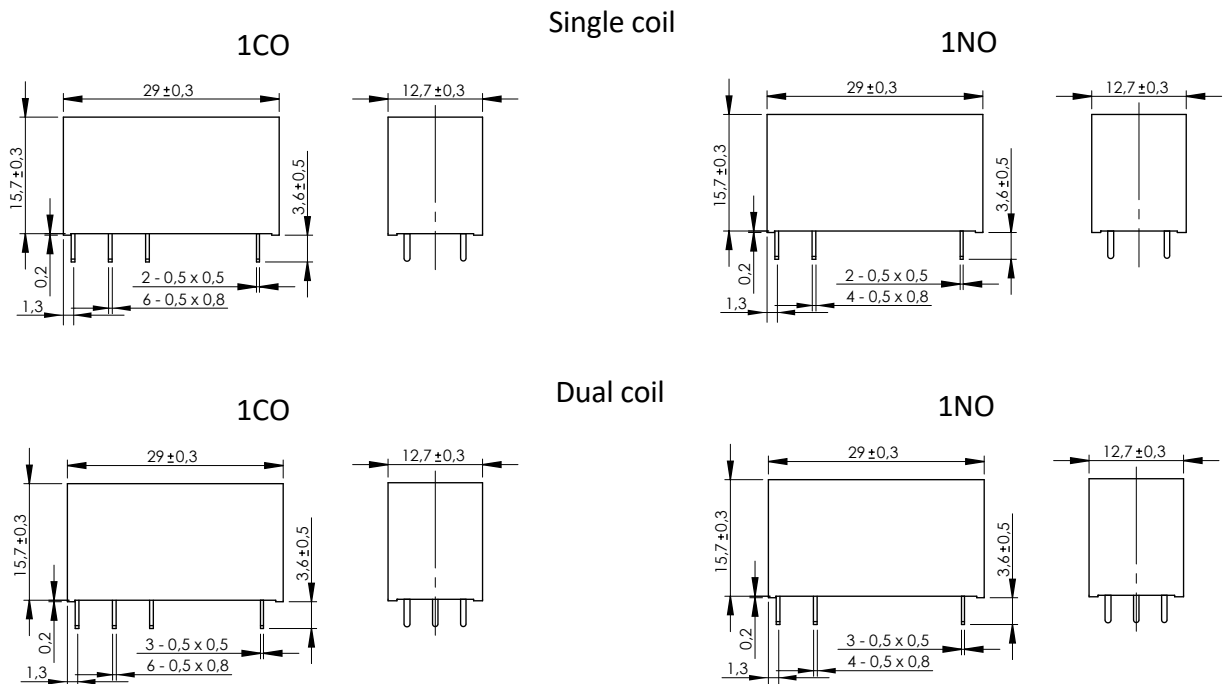
Mechanical life (frequency 18000 Oper./h)	2 x 10 ⁶ Oper.
Electrical life (16A/250VAC, 85°C)	5 x 10 ⁴ Oper.
Max. Switching rate at rated load	360 Oper. / h
Operating / Release time	≤10ms / ≤10ms
Dielectric strength contact / coil	5000VAC _{rms}
Dielectric strength open contacts	1000VAC _{rms}
Creepage / Clearance distance	≥8mm / ≥8mm
Ambient temperature (no freezing)	-40°C ~ +85°C
Vibration resistance	10~55Hz; double amplitude 1.5mm
Shockresistance 11ms (functional)	98m/s ²
Dimension	29 x 12.7 x 15.7 mm
Weight	Approx. 13g

Safety approval ratings

VDE (Pending)	16A, 250VAC, 85°C
UL (Pending)	16A, 250VAC, 85°C
CQC (Pending)	16A, 250VAC, 85°C

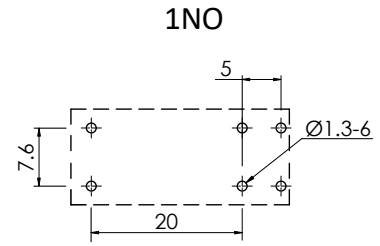
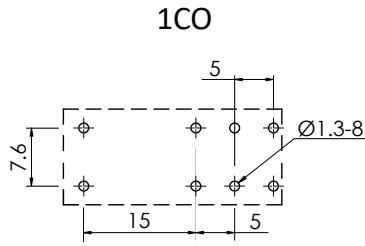
Notes: The data shown above are initial values.

Outline Dimensions (in mm)

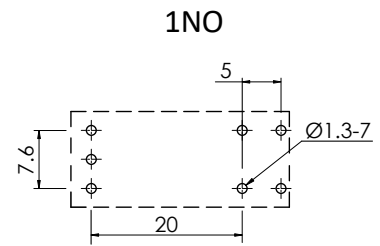
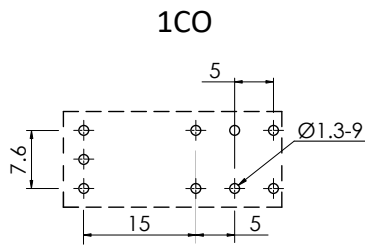


PC Board Layout (in mm)
(Bottom view)

Single coil

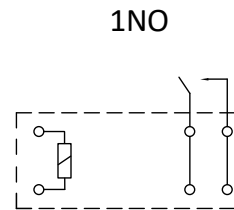
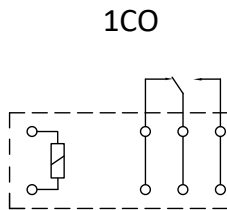


Dual coil



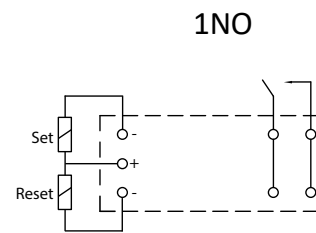
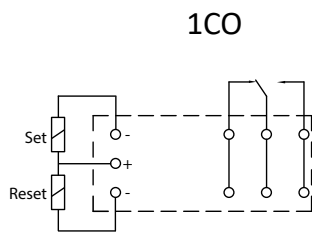
Wiring Diagramm (Bottom view)

Single coil*

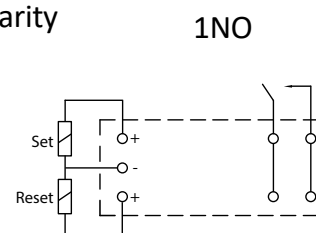
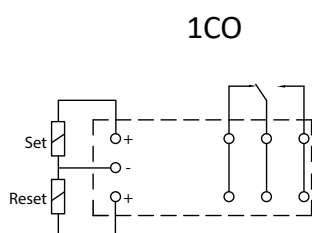


*) Indicated contact position during or after coil energization with reset voltage

Dual coil



Dual coil with reversed polarity



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.