

Features

- high rating PCB power relay
- 1 pole 12 and 16A, 250VAC
- Ag alloy contact material
- 410mW coil power
- maximum ambient temperature +85°C
- UL/CUL and VDE approved
- Comply with RoHS-Directive 2011/65/EU



Type List

Terminal style	Contact form	Rated current	Designation (provided with)
			Sealed type washable
PCB terminal	1A (SPNO)	12 A	NF75 100 E..S
		16 A	NF75 100 E7..S
	1C (SPDT)	12 A	NF75 001 E..S
		16 A	NF75 001 E7..S

Ordering Information

NF75 001 E7 24 - S XXXX

1 2 3 4 5 6 7 8

- | | | | |
|----------|------------------------------|----------|---|
| 1. NF75 | -- Basic series Designation | 5. | -- Coil Voltage [VDC]: 5, 6, 9, 12, 24, 48 |
| 2. 100 | -- Single pole normally open | 6. Blank | -- Coil Power 410mW |
| 001 | -- Single pole double throw | 7. Blank | -- Flux tight |
| 3. E | -- Contact Material Ag alloy | S | -- Sealed washable |
| 4. Blank | -- 12A Version | 8. Blank | -- Standard Type |
| 7 | -- 16A Version | XXXX | -- Letters and/or numbers for special customer design |

Contact Data

Type of contact	Single contact
Configuration	1 NO, 1CO
Maximum switching current	12A, 16A
Maximum switching voltage	250 VAC
Contact material	Ag alloy

Coil rating (DC @+23°C) - 410mW Version

U_N (VDC)	R (Ohm)	U_{PI} (VDC)	U_{DO} (VDC)	I_N (mA)
5	$61 \pm 10\%$	3.5	0.5	82
6	$688 \pm 10\%$	4.2	0.6	68
9	$198 \pm 10\%$	6.3	0.9	46
12	$351 \pm 10\%$	8.4	1.2	34
24	$1405 \pm 10\%$	16.8	2.4	17
48	$5620 \pm 10\%$	33.6	4.8	8.5

Specification

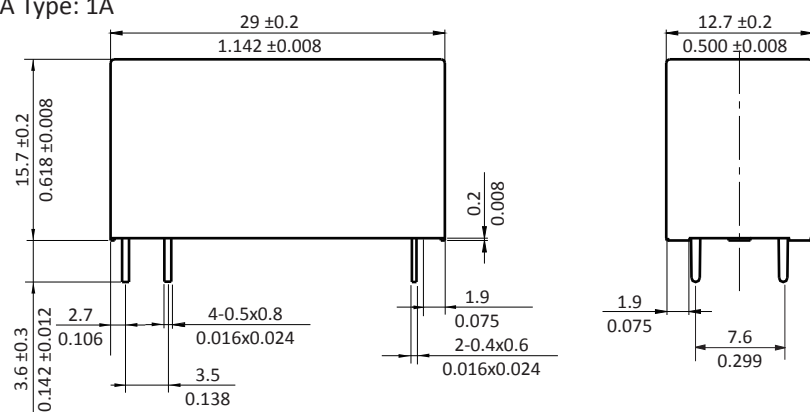
Mechanical life	10x10 ⁶ cycles		
Electrical life at rated load	1x10 ⁵ cycles (at 12/16A, 250VAC, +85°C)		
Max. Switching rate at rated load	360 Operations/h		
Operate Time / Release time	15 / 8 ms Max.		
Dielectric strength	Between coil and contacts	5000V, 50/60Hz, 1min	
	Between open contacts	1000V, 50/60Hz, 1min	
Ambient temperature	-40 .. + 85 °C		
Vibration resistance (10..55Hz)	1.5 mm		
Shock resistance 11 ms	10 g		
Approvals	VDE, UL		
Insulation materials for domestic appliances - according IEC60335-1 -PENDING-			

Safety Approval

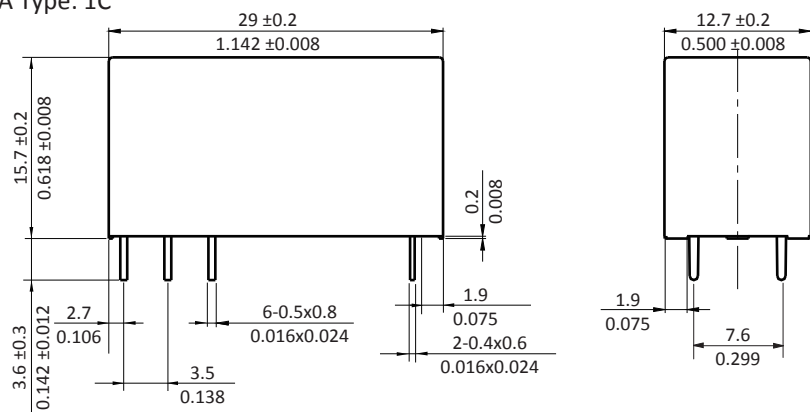
Certified	UL / CUL	VDE
Ratings	12A, 250VAC; 16A, 250VAC 12A 30VDC	12A 250VAC; 16A 250 VAC

Outline Dimensions

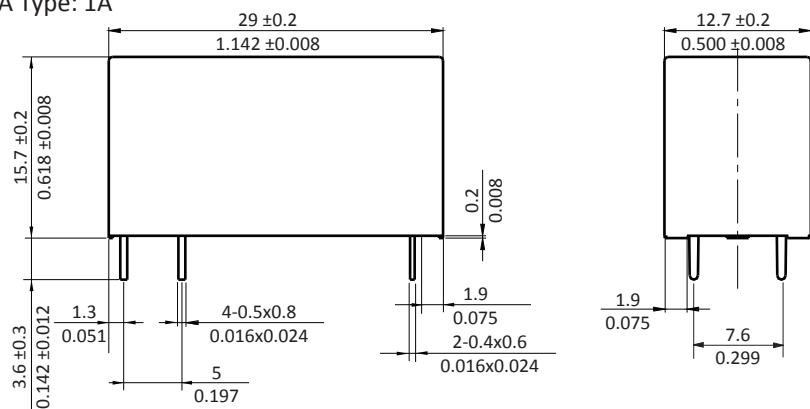
12A Type: 1A



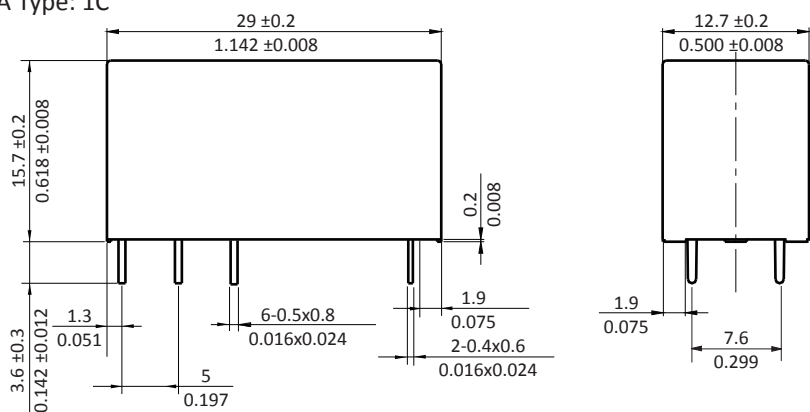
12A Type: 1C



16A Type: 1A

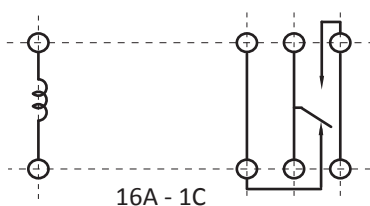
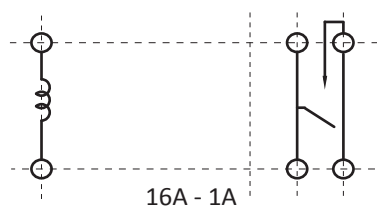
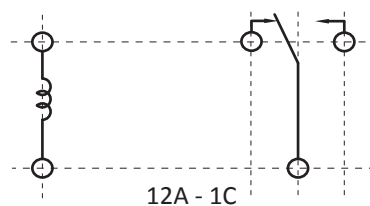
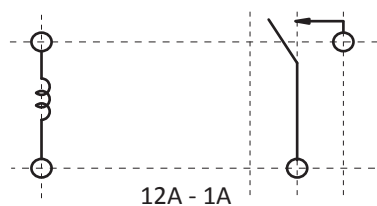


16A Type: 1C



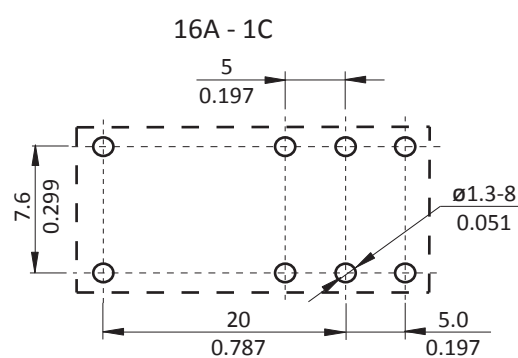
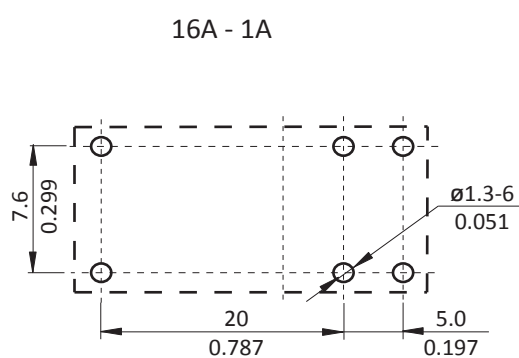
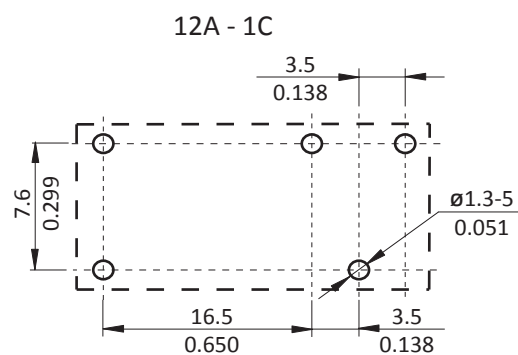
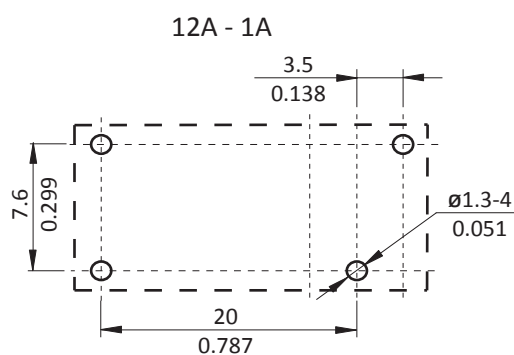
Wiring Diagram

Bottom View



PC Board Layout

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.