

# NFI, NFIK, NFIS, NFIF

## Residual current circuit breakers - Type A, F

Residual current circuit breakers (RCBB) are used for protection against indirect contact, fire protection and additional protection against direct contact.

They are sensitive to alternating and pulsating direct residual currents.

### Features

- ▶ They are suitable for isolation.
- ▶ No overload protection or short-circuit protection is built in RCCB.
- ▶ Assembly to a 35 mm wide mounting rail in accordance with EN 60715
- ▶ Optional operation position
- ▶ Degree of protection IP20, degree of protection IP40 after installation in a distribution box
- ▶ Additional colour display of the position of main contacts (red - contacts closed, green - contacts open)
- ▶ A terminal shape prevents connection of a conductor outside the connection area.



### Special Version

#### ▶ NFIK - SENSITIVE TO AC AND PULSATING DIRECT RESIDUAL CURRENTS

- Short-time delayed RCCBs with minimum non-actuating time 10 ms (type G acc. to ÖVE E 8601)
- Surge current withstand capability with current waveform 8/20  $\mu$ s up to 3 kA
- High immunity against unwanted tripping at current impulses (e.g. a high number of florescent lamps, transient effects) or when installed in special critical conditions (leakage currents of impulse shape at long cables, the influence of storms, computers, X-ray devices, etc.).

#### ▶ NFIS - SENSITIVE TO AC AND PULSATING DIRECT RESIDUAL CURRENTS

- Time delayed selective type with minimum non-actuating time 40 ms (type S)
- Surge current withstand capability with current waveform 8/20  $\mu$ s up to 3 kA
- Selectivity regarding a general type and a short-time delayed type is enabled
- Particularly suitable as the main RCCB

#### ▶ NFIF - SENSITIVE TO RESIDUAL CURRENTS AS TYPE A AND IN ADDITION TO RESIDUAL CURRENTS WITH MIXED FREQUENCIES

- Sensitive to residual currents as type A and in addition to residual currents with mixed frequencies up to 1 kHz that can result from single-phase electrical loads with frequency inverters (acc. to IEC/EN 62423)
- Surge current withstand capability with current waveform 8/20  $\mu$ s up to 3 kA
- Intended for protection when using washing machines, vacuum cleaners, dishwashers, heating pumps, lighting system ...



### Type A - sensitive to AC and pulsating direct residual currents

Type	Rated Current $I_n$ (A)	Rated residual current $I_{Dn}$ (A)	No. of Poles	Ordering No.	Weight (g)	Quantity / Box	Quantity / CTN
<b>NFI2 - type A, instantaneous tripping</b>							
NFI2 16/0.01	16	0.01	2	30.104.260	184	1	
NFI2 25/0.01	25	0.01	2	30.104.264	184	1	
NFI2 16/0.03	16	0.03	2	30.104.238	184	1	
NFI2 25/0.03	25	0.03	2	30.104.239	184	1	
NFI2 40/0.03	40	0.03	2	30.104.240	184	1	
NFI2 63/0.03	63	0.03	2	30.104.241	184	1	
NFI2 80/0.03	80	0.03	2	30.104.357	184	1	
NFI2 100/0.03	100	0.03	2	30.104.553	184	1	
NFI2 16/0.1	16	0.1	2	30.104.261	184	1	
NFI2 25/0.1	25	0.1	2	30.104.265	184	1	
NFI2 40/0.1	40	0.1	2	30.104.268	184	1	
NFI2 63/0.1	63	0.1	2	30.104.271	184	1	
NFI2 80/0.1	80	0.1	2	30.104.644	184	1	
NFI2 100/0.1	100	0.1	2	30.104.554	184	1	
NFI2 16/0.3	16	0.3	2	30.104.262	184	1	
NFI2 25/0.3	25	0.3	2	30.104.266	184	1	
NFI2 40/0.3	40	0.3	2	30.104.269	184	1	
NFI2 63/0.3	63	0.3	2	30.104.272	184	1	
NFI2 80/0.3	80	0.3	2	30.104.450	184	1	
NFI2 100/0.3	100	0.3	2	30.104.555	184	1	
NFI2 16/0.5	16	0.5	2	30.104.263	184	1	
NFI2 25/0.5	25	0.5	2	30.104.267	184	1	
NFI2 40/0.5	40	0.5	2	30.104.270	184	1	
NFI2 63/0.5	63	0.5	2	30.104.273	184	1	
NFI2 80/0.5	80	0.5	2	30.104.645	184	1	
NFI2 100/0.5	100	0.5	2	30.104.556	184	1	



**Type A - sensitive to AC and pulsating direct residual currents**

Type	Rated Current $I_n$ (A)	Rated residual current $I_{\Delta n}$ (A)	No. of Poles	Ordering No.	Weight (g)	Quantity / Box	Quantity / CTN
<b>NFI4 - type A, instantaneous tripping</b>							
NFI4 16/0.01	16	0.01	4	30.104.823	316	1	
NFI4 25/0.01	25	0.01	4	30.104.786	316	1	
NFI4 25/0.03	25	0.03	4	30.104.296	316	1	
NFI4 40/0.03	40	0.03	4	30.104.300	316	1	
NFI4 63/0.03	63	0.03	4	30.104.304	316	1	
NFI4 80/0.03	80	0.03	4	30.104.358	316	1	
NFI4 100/0.03	100	0.03	4	30.104.550	360	1	
NFI4 25/0.1	25	0.1	4	30.104.297	316	1	
NFI4 40/0.1	40	0.1	4	30.104.301	316	1	
NFI4 63/0.1	63	0.1	4	30.104.305	316	1	
NFI4 80/0.1	80	0.1	4	30.104.436	316	1	
NFI4 100/0.1	100	0.1	4	30.104.551	360	1	
NFI4 25/0.3	25	0.3	4	30.104.298	316	1	
NFI4 40/0.3	40	0.3	4	30.104.302	316	1	
NFI4 63/0.3	63	0.3	4	30.104.306	316	1	
NFI4 80/0.3	80	0.3	4	30.104.433	316	1	
NFI4 100/0.3	100	0.3	4	30.104.552	360	1	
NFI4 25/0.5	25	0.5	4	30.104.299	316	1	
NFI4 40/0.5	40	0.5	4	30.104.303	316	1	
NFI4 63/0.5	63	0.5	4	30.104.307	316	1	
NFI4 80/0.5	80	0.5	4	30.104.443	316	1	



**NOTE:** Rated current 32 A on request  
Rated voltage 110 V on request

**Ordering Data**

**NFI4 25 / 0.03**

- Rated residual operating current  $I_{\Delta n}$  (A)
- Rated current  $I_n$  (A)
- Number of poles
- Type

**Type F - sensitive to residual currents as type a and in addition to residual currents with mixed frequencies**

Type	Rated Current $I_n$ (A)	Rated residual current $I_{\Delta n}$ (A)	No. of Poles	Ordering No.	Weight (g)	Quantity / Box	Quantity / CTN
<b>NFI2F - type F, short-time delayed </b>							
NFI2F 16/0.03	16	0.03	2	30.104.850	184	1	
NFI2F 25/0.03	25	0.03	2	30.104.851	184	1	
NFI2F 40/0.03	40	0.03	2	30.104.852	184	1	
NFI2F 63/0.03	63	0.03	2	30.104.853	184	1	
NFI2F 80/0.03	80	0.03	2	30.104.854	184	1	
NFI2F 100/0.03	100	0.03	2	30.104.855	184	1	
NFI2F 16/0.1	16	0.1	2	30.104.856	184	1	
NFI2F 25/0.1	25	0.1	2	30.104.857	184	1	
NFI2F 40/0.1	40	0.1	2	30.104.858	184	1	
NFI2F 63/0.1	63	0.1	2	30.104.859	184	1	
NFI2F 80/0.1	80	0.1	2	30.104.860	184	1	
NFI2F 100/0.1	100	0.1	2	30.104.861	184	1	
NFI2F 16/0.3	16	0.3	2	30.104.862	184	1	
NFI2F 25/0.3	25	0.3	2	30.104.863	184	1	
NFI2F 40/0.3	40	0.3	2	30.104.864	184	1	
NFI2F 63/0.3	63	0.3	2	30.104.865	184	1	
NFI2F 80/0.3	80	0.3	2	30.104.866	184	1	
NFI2F 100/0.3	100	0.3	2	30.104.867	184	1	
NFI2F 16/0.5	16	0.5	2	30.104.868	184	1	
NFI2F 25/0.5	25	0.5	2	30.104.869	184	1	
NFI2F 40/0.5	40	0.5	2	30.104.870	184	1	
NFI2F 63/0.5	63	0.5	2	30.104.871	184	1	
NFI2F 80/0.5	80	0.5	2	30.104.872	184	1	
NFI2F 100/0.5	100	0.5	2	30.104.873	184	1	
<b>NFI4F - type F, short-time delayed </b>							
NFI4F 25/0.03	25	0.03	4	30.104.875	316	1	
NFI4F 40/0.03	40	0.03	4	30.104.876	316	1	
NFI4F 63/0.03	63	0.03	4	30.104.877	316	1	
NFI4F 80/0.03	80	0.03	4	30.104.878	316	1	
NFI4F 100/0.03	100	0.03	4	30.104.879	360	1	
NFI4F 25/0.1	25	0.1	4	30.104.880	316	1	
NFI4F 40/0.1	40	0.1	4	30.104.881	316	1	
NFI4F 63/0.1	63	0.1	4	30.104.882	316	1	
NFI4F 80/0.1	80	0.1	4	30.104.883	316	1	
NFI4F 100/0.1	100	0.1	4	30.104.884	360	1	
NFI4F 25/0.3	25	0.3	4	30.104.885	316	1	
NFI4F 40/0.3	40	0.3	4	30.104.886	316	1	
NFI4F 63/0.3	63	0.3	4	30.104.887	316	1	
NFI4F 80/0.3	80	0.3	4	30.104.888	360	1	
NFI4F 100/0.3	100	0.3	4	30.104.889	360	1	
NFI4F 25/0.5	25	0.5	4	30.104.890	316	1	
NFI4F 40/0.5	40	0.5	4	30.104.891	316	1	
NFI4F 63/0.5	63	0.5	4	30.104.892	316	1	
NFI4F 80/0.5	80	0.5	4	30.104.893	360	1	
NFI4F 100/0.5	100	0.5	4	30.104.894	360	1	

**NOTE:** Rated current 32 A on request

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**Technical Data**

Type A G S	Symbol	Unit	NFI2 NFI2K NFI2S	NFI4 NFI4K NFI4S
Standards	IEC/EN 61008, type G acc. to ÖVE E 8601			
Approvals	VDE, EAC			
Module width			2	4
Number of poles			2	4
Rated voltage	$U_n$	V AC	230	400
Rated insulation voltage	$U_i$	V	400	
Rated impulse withstand voltage	$U_{imp}$	kV	4	
Rated frequency	f	Hz	50	
Rated current	$I_n$	A	16, 25, 32, 40, 63, 80, 100	25, 32, 40, 63, 80, 100
Rated residual current	$I_{\Delta n}$	mA	10 ( $I_n = 16, 25, 32 A$ ), 30, 100, 300, 500	10 ( $I_n = 25, 32 A$ ), 30, 100, 300, 500
Residual operating current (AC 50 Hz)			0.5 - 1.0 $I_{\Delta n}$	
Rated conditional short-circuit current	$I_{nc}$	kA	10	
Rated making and breaking capacity	$I_m$	A	800 ( $I_n = 16 - 80 A$ ) 1000 ( $I_n = 100 A$ )	
Rated residual making and breaking capacity	$I_{\Delta m}$	A	63 ( $I_n = 16 - 40 A$ ) 80 ( $I_n = 63, 80 A$ ) 100 ( $I_n = 100 A$ )	
Max. back-up fuse for short-circuit current gL	$I_v$	A	63 ( $I_n = 16 - 40 A$ ) 80 ( $I_n = 63, 80 A$ ) 100 ( $I_n = 100 A$ )	
Surge current withstand capability	A		NFI: 200 (0.5 $\mu$ s/100 kHz ring wave) NFIK, NFIS: 3000 (8/20 $\mu$ s surge current)	
Maximum breaking times			NFI, NFIK - 1 x $I_{\Delta n}$ : < 300 ms; 5 x $I_{\Delta n}$ : < 40 ms NFIS - 1 x $I_{\Delta n}$ : < 500 ms; 5 x $I_{\Delta n}$ : < 150 ms	
Minimum response time delay			FI, NFI: instantaneous NFIK: 10 ms NFIS: 40 ms	
Mechanical endurance	op. c.		min. 5000	
Electrical endurance	op. c.		min. 2000	
Ambient temperature	°C		-25 ... +40*	
Storage temperature	°C		-35 ... +60	
Resistance to climate			acc. to IEC 60068-2-30: 28 cycles (55 °C, 95 % relative humidity)	
Terminal capacity rigid (solid or stranded)				
rigid (solid or stranded)	S	mm <sup>2</sup>	1 ... 35	
flexible			1 ... 35	
Screw			M5	
Screw head			PZ2	
Tightening torque	Nm		2.0	
Length of removed conductor insulation	mm		15	
Degree of protection			IP20 (IP40 after installation in a distribution box)	
Pollution degree			2	
Weight	g		184	360

\* -35°C on request

**Technical Data**

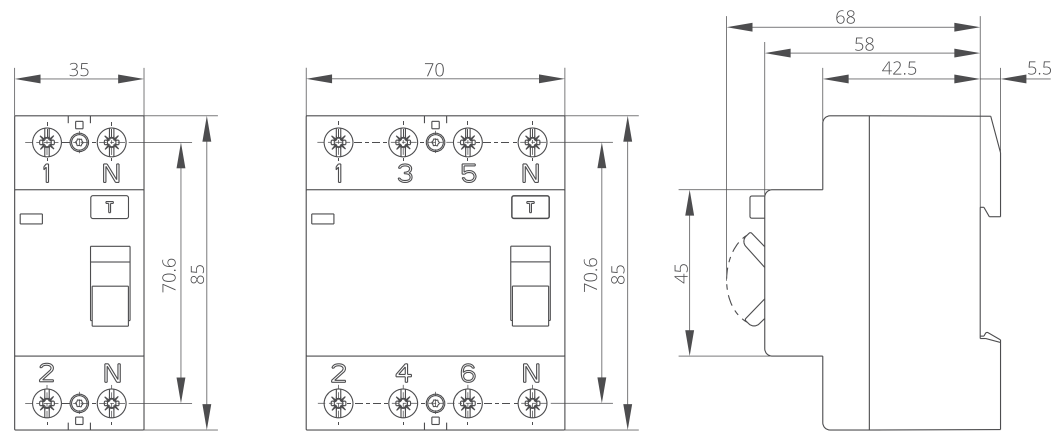
Type F	Symbol	Unit	NFI2F	NFI4F
Standards	IEC/EN 61008, IEC/EN 62423			
Approvals	VDE			
Module width			2	4
Number of poles			2	4
Rated voltage	$U_n$	V AC	230	400
Rated insulation voltage	$U_i$	V	400	
Rated impulse withstand voltage	$U_{imp}$	kV	4	
Rated frequency	f	Hz	50	
Rated current	$I_n$	A	16, 25, 32, 40, 63, 80, 100	25, 32, 40, 63, 80, 100
Rated residual current	$I_{\Delta n}$	mA	30, 100, 300, 500	
Residual operating current (AC 50 Hz)			0.5 - 1.0 $I_{\Delta n}$	
Rated conditional short-circuit current	$I_{nc}$	kA	10	
Rated making and breaking capacity	$I_m$	A	800 ( $I_n = 16 - 80 A$ ) 1000 ( $I_n = 100 A$ )	
Rated residual making and breaking capacity	$I_{\Delta m}$	A	63 ( $I_n = 16 - 40 A$ ) 80 ( $I_n = 63, 80 A$ ) 100 ( $I_n = 100 A$ )	
Max. back-up fuse for short-circuit current gL	$I_v$	A	63 ( $I_n = 16 - 40 A$ ) 80 ( $I_n = 63, 80 A$ ) 100 ( $I_n = 100 A$ )	
Surge current withstand capability	A		3 (8/20 $\mu$ s surge current)	
Maximum breaking times			1 x $I_{\Delta n}$ : < 300 ms; 5 x $I_{\Delta n}$ : < 40 ms	
Minimum response time delay			10 ms	
Mechanical endurance	op. c.		min. 5000	
Electrical endurance	op. c.		min. 2000	
Ambient temperature	°C		-25 ... +40	
Storage temperature	°C		-35 ... +60	
Resistance to climate			acc. to IEC 60068-2-30: 28 cycles (55 °C, 95 % relative humidity)	
Terminal capacity rigid (solid or stranded)				
rigid (solid or stranded)	S	mm <sup>2</sup>	1 ... 35	
flexible			1 ... 35	
Screw			M5	
Screw head			PZ2	
Tightening torque	Nm		2.0	
Length of removed conductor insulation	mm		15	
Degree of protection			IP20 (IP40 after installation in a distribution box)	
Pollution degree			2	
Weight	g		184	360

**Dimensions**

(mm)

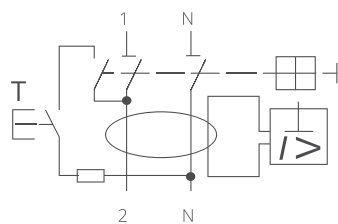
**NFI2, NFI2K  
NFI2S, NFI2F**

**NFI4, NFI4K  
NFI4S, NFI4F**

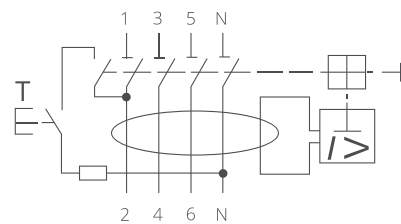


**Schematics**

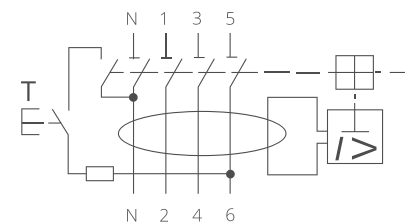
**NFI, NFIK, NFIS, NFIF  
Two-pole**



**Four-pole, N-pole right**



**Four-pole, N-pole left**



**NFIB**

**Residual current circuit breakers - type B**

NFIB are type B residual current circuit breakers (RCCBs) for which tripping is ensured as for type a and in addition for smooth DC residual currents, residual DC currents which may result from rectifying circuits, and high frequency AC residual currents.



**Features**

- ▶ Intended for use in applications with frequency inverters, medical devices, UPS, mobile installations, elevators.
- ▶ The type B residual current circuit breakers are not intended for use in d.c. systems and networks with operating frequencies other than 50 or 60 Hz.
- ▶ For type B tripping conditions for frequencies up to 1 kHz are defined.
- ▶ Functions of detection, evaluation and interruption for type A residual currents do not depend on the line voltage.
- ▶ For evaluation of smooth d.c. residual currents supply voltage is required.
- ▶ Versions:
  - NFIBK: short-time delayed
  - NFIBS: selective type
- ▶ Surge current withstand capability with current waveform 8/20 μs is 3 kA.
- ▶ When designing and installing electrical installations, electrical loads that can generate d.c. residual currents in the event of fault, must be assigned a separate electrical circuit.
- ▶ Optional operating position
- ▶ Degree of protection IP20; after installation in a distribution box IP40
- ▶ Assembly to a 35 mm wide mounting rail in accordance with EN 60715



**Type b - sensitive to residual currents as type f and in addition to smooth DC residual currents, residual dc currents which may result from rectifying circuits, and high frequency ac residual currents**

Type	Rated Current $I_n$ (A)	Rated residual current $I_{\Delta n}$ (A)	No. of Poles	Ordering No.	Weight (g)	Quantity / Box	Quantity / CTN
<b>NFI2BK - type B, short-time delayed</b>							
NFI2BK 25/0.03	25	0.03	2	30.105.110	310	1	
NFI2BK 40/0.03	40	0.03	2	30.105.046	310	1	
NFI2BK 63/0.03	63	0.03	2	30.105.035	310	1	
NFI2BK 80/0.03	80	0.03	2	30.105.175	310	1	
NFI2BK 25/0.1	25	0.1	2	30.105.176	310	1	
NFI2BK 40/0.1	40	0.1	2	30.105.177	310	1	
NFI2BK 63/0.1	63	0.1	2	30.105.178	310	1	
NFI2BK 80/0.1	80	0.1	2	30.105.179	310	1	
NFI2BK 25/0.3	25	0.3	2	30.105.180	310	1	
NFI2BK 40/0.3	40	0.3	2	30.105.148	310	1	
NFI2BK 63/0.3	63	0.3	2	30.105.181	310	1	
NFI2BK 80/0.3	80	0.3	2	30.105.182	310	1	
NFI2BK 25/0.5	25	0.5	2	30.105.183	310	1	
NFI2BK 40/0.5	40	0.5	2	30.105.184	310	1	
NFI2BK 63/0.5	63	0.5	2	30.105.185	310	1	
NFI2BK 80/0.5	80	0.5	2	30.105.186	310	1	
<b>NFI4BK - type B, short-time delayed</b>							
NFI4BK 25/0.03	25	0.03	4	30.104.898	350	1	
NFI4BK 40/0.03	40	0.03	4	30.104.899	350	1	
NFI4BK 63/0.03	63	0.03	4	30.104.806	350	1	
NFI4BK 80/0.03	80	0.03	4	30.104.902	350	1	
NFI4BK 25/0.1	25	0.1	4	30.104.929	350	1	
NFI4BK 40/0.1	40	0.1	4	30.104.930	350	1	
NFI4BK 63/0.1	63	0.1	4	30.104.807	350	1	
NFI4BK 80/0.1	80	0.1	4	30.104.903	350	1	
NFI4BK 25/0.3	25	0.3	4	30.104.931	350	1	
NFI4BK 40/0.3	40	0.3	4	30.104.932	350	1	
NFI4BK 63/0.3	63	0.3	4	30.104.808	350	1	
NFI4BK 80/0.3	80	0.3	4	30.104.904	350	1	
NFI4BK 25/0.5	25	0.5	4	30.104.909	350	1	
NFI4BK 40/0.5	40	0.5	4	30.104.933	350	1	
NFI4BK 63/0.5	63	0.5	4	30.104.809	350	1	
NFI4BK 80/0.5	80	0.5	4	30.104.905	350	1	
<b>NFI4BS - type B, selective</b>							
NFI4BS 25/0.1	25	0.1	4	30.104.934	350	1	
NFI4BS 40/0.1	40	0.1	4	30.104.935	350	1	
NFI4BS 63/0.1	63	0.1	4	30.104.810	350	1	
NFI4BS 80/0.1	80	0.1	4	30.104.906	350	1	
NFI4BS 25/0.3	25	0.3	4	30.104.936	350	1	
NFI4BS 40/0.3	40	0.3	4	30.104.937	350	1	
NFI4BS 63/0.3	63	0.3	4	30.104.811	350	1	
NFI4BS 80/0.3	80	0.3	4	30.104.907	350	1	
NFI4BS 25/0.5	25	0.5	4	30.104.910	350	1	
NFI4BS 40/0.5	40	0.5	4	30.104.938	350	1	
NFI4BS 63/0.5	63	0.5	4	30.104.812	350	1	
NFI4BS 80/0.5	80	0.5	4	30.104.908	350	1	

**NOTE:** Rated current 32 A on request



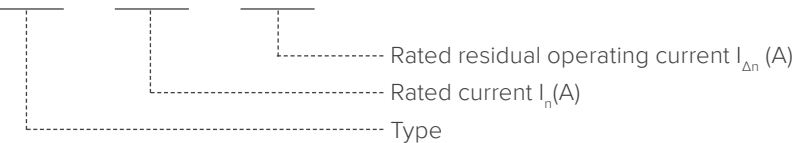
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**Ordering Data**

**NFI4BK 25 / 0.03**


**Technical Data**

Type B	Symbol	Unit	NFI2BK	NFI4BK NFI4BS
Standards			IEC/EN 61008, IEC/EN 62423	
Approvals			VDE, EAC	
Module width			4	
Number of poles			2	4
Rated voltage	$U_n$	V AC	230	400
Min. required operating voltage			0 V (mains voltage independent)	
- for detecting type A residual currents				
- for detecting type B residual currents			80 V AC	50 V AC
Rated insulation voltage	$U_i$	V	400	
Rated impulse withstand voltage	$U_{imp}$	kV	4 (1.2/50 $\mu$ s)	
Rated frequency	f	Hz	50/60	
Rated current	$I_n$	A	25, 32, 40, 63, 80	
Rated residual current	$I_{\Delta n}$	mA	NFI2BK, NFI4BK: 30, 100, 300, 500 NFI4BS: 100, 300, 500	
Residual operating current			AC (50 Hz): 0.5 - 1.0 $I_{\Delta n}$ DC: 0.5 - 2.0 $I_{\Delta n}$	
Frequency response range		Hz	0 - 1000	
Rated conditional short-circuit current	$I_{nc}$	kA	10	
Rated making and breaking capacity	$I_m$	A	800	
Rated residual making and breaking capacity	$I_{sm}$	A		
Max. back-up fuse for short-circuit current gL	$I_v$	A	63 (In = 16 - 40 A) 80 (In = 63, 80 A)	
Surge current withstand capability		kA	3 (8/20 $\mu$ s surge current)	
Maximum breaking times			NFI2BK, NFI4BK - 1 x $I_{\Delta n}$ : < 300 ms; 5 x $I_{\Delta n}$ : < 40 ms NFI4BS - 1 x $I_{\Delta n}$ : < 500 ms; 5 x $I_{\Delta n}$ : < 150 ms	
Minimum response time delay			NFI2BK, NFI4BK: 10 ms NFI4BS: 40 ms	
Mechanical endurance		op. c.	min. 5000	
Electrical endurance		op. c.	min. 2000	
Ambient temperature		$^{\circ}$ C	-25 ... +40	
Storage temperature		$^{\circ}$ C	-35 ... +60	
Resistance to climate			acc. to IEC 60068-2-30: 28 cycles (55 $^{\circ}$ C, 95 % relative humidity)	
Terminal capacity rigid (solid or stranded)				
rigid (solid or stranded)	S	mm <sup>2</sup>	1 ... 25	
flexible			1 ... 25	
Screw			M5	
Screw head			PZ2	
Tightening torque		Nm	2.0	
Length of removed conductor insulation		mm	15	
Degree of protection			IP20 (IP40 after installation in a distribution box)	
Pollution degree			2	
Weight		g	310	350

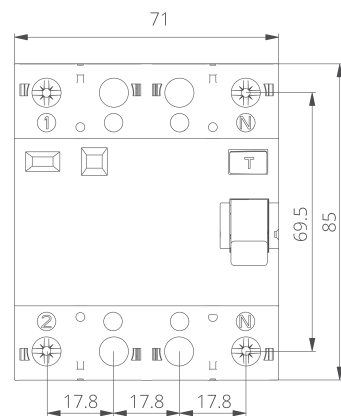
## RFIE A

### Residual Current Circuit Breakers

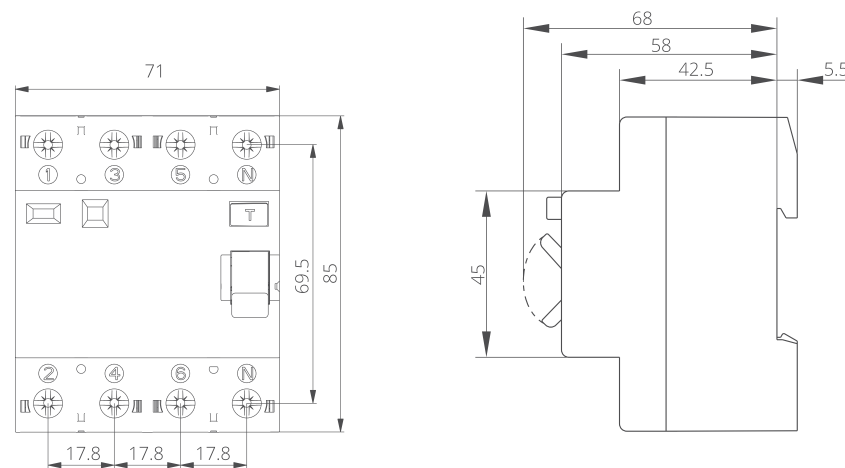


#### Dimensions (mm)

##### NFI2BK



##### NFI4BK, NFI4BS

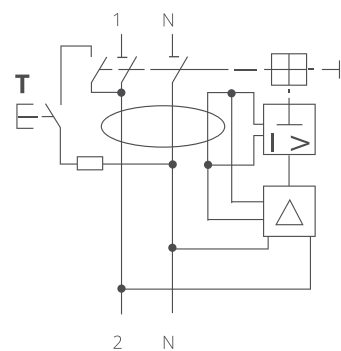


#### Features

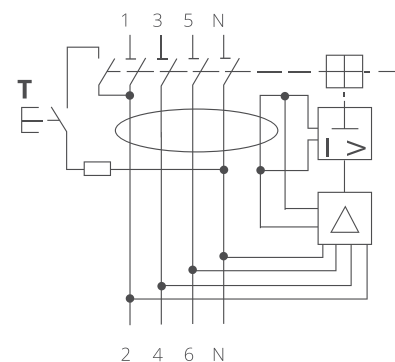
- ▶ Single module size with switched neutral line
- ▶ Protection against sinusoidal AC and pulsation DC leakage current
- ▶ 6 kA breaking capacity
- ▶ Simple replace MCB with RCBO in the same place
- ▶ Functionality on minimum supply voltage 90 V
- ▶ The terminals provide to use also time saving busbars
- ▶ Method of DIN rail mounting enables an easy removal of single RCBO without disconnecting units from busbars

#### Schematics

##### NFI2BK



##### NFI4BK, NFI4BS



Technical data	Symbol	Unit	RFIE A
Standards			IEC 61009-1
Approvals			SEMKO
Number of poles			2
Rated current	$I_n$	A	6, 10, 16, 20, 25, 32
Tripping characteristic			B, C
Rated voltage	$U_n$	V	230
Rated frequency	$f$	Hz	50
Rated residual operating current	$I_{An}$	mA	30
Rated insulation voltage		V	500
Type of residual current			A, AC
Residual tripping time		ms	< 100
Short circuit breaking capacity		kA	6
Selection category		kA	3
Electrical endurance		op.c.	4000
Back-up fuse gL/gG		A	100
Mechanical endurance		op.c.	10.000
Connecting clamps			Lug type
Connecting wires		mm <sup>2</sup>	1 ... 10
Mounting			DIN rail EN 60715
Ambient air temperature		°C	-25 ... +40
Protection degree			IP20
Width		mm	18 (1-module)