

RESIDUAL CURRENT CIRCUIT BREAKERS - TYPE AC

AFI



RESIDUAL CURRENT CIRCUIT BREAKERS AFI ARE SWITCHES WITH INSTANTANEOUS TRIPPING. THEY ARE USED FOR PROTECTION AGAINST INDIRECT CONTACT, FIRE PROTECTION AND ADDITIONAL PROTECTION AGAINST DIRECT CONTACT. AFI TYPE AC IS SENSITIVE TO RESIDUAL SINUSOIDAL ALTERNATING CURRENTS ONLY.

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FEATURES

- They are suitable for isolation (switch disconnector)
- Degree of protection IP20; after installation in a distribution box IP40
- Assembly to a 35 mm wide mounting rail in accordance with EN 60715
- Additional colour display of the main contact position (red - contacts closed, green - contacts open)

ORDERING DATA

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RESIDUAL CURRENT CIRCUIT BREAKERS - AFI

TYPE AC - SENSITIVE TO AC RESIDUAL CURRENTS

AFI2 - type AC, without time delay

Type	Rated current I_n (A)	Rated residual current $I_{\Delta n}$ (A)	Number of poles	Ordering No.	Weight (g)	Packaging (pcs)
AFI2 25/0.03	25	0.03	2	30.105.058	215	1
AFI2 25/0.3	25	0.3	2	30.105.059	215	1
AFI2 25/0.5	25	0.5	2	30.105.060	215	1
AFI2 40/0.03	40	0.03	2	30.105.061	215	1
AFI2 40/0.3	40	0.3	2	30.105.062	215	1
AFI2 63/0.03	63	0.03	2	30.105.063	215	1
AFI2 63/0.3	63	0.3	2	30.105.064	215	1



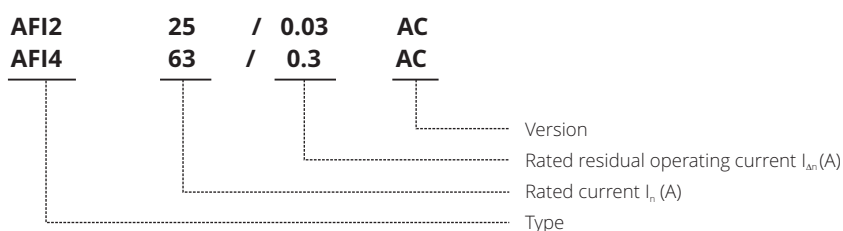
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AFI4 - type AC, without time delay

Type	Rated current I_n (A)	Rated residual current $I_{\Delta n}$ (A)	Number of poles	Ordering No.	Weight (g)	Packaging (pcs)
AFI4 25/0.03	25	0.03	4	30.105.067	360	1
AFI4 25/0.3	25	0.3	4	30.105.068	360	1
AFI4 25/0.5	25	0.5	4	30.105.069	360	1
AFI4 40/0.03	40	0.03	4	30.105.070	360	1
AFI4 40/0.3	40	0.3	4	30.105.071	360	1
AFI4 40/0.5	40	0.5	4	30.105.072	360	1
AFI4 63/0.03	63	0.03	4	30.105.073	360	1
AFI4 63/0.3	63	0.3	4	30.105.074	360	1
AFI4 63/0.5	63	0.5	4	30.105.075	360	1



ORDERING DATA



ORDERING DATA

RESIDUAL CURRENT CIRCUIT BREAKERS -AFI

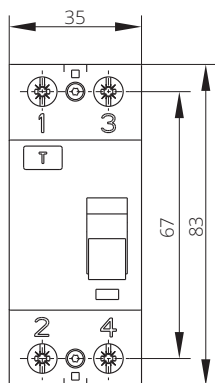
Type	AC	Symbol	Unit	AFI2	AFI4
Standards				IEC/EN 61008	
Approvals				CE	
Module width				2	4
Number of poles				2	4
Rated voltage		U_n	V	230	400
Rated insulation voltage		U_i	V	400	
Rated impulse withstand voltage		U_{imp}	kV	4	
Rated frequency		f	Hz	50	
Rated current		I_n	A	25, 40, 63	
Rated residual current		$I_{\Delta n}$	mA	30, 300, 500	
Residual operating current (AC 50 Hz)				0.5 - 1.0 $I_{\Delta n}$	
Rated conditional short-circuit current		I_{nc}	kA	6	
Rated making and breaking capacity		I_m	A	630 ($I_n = 25 - 63$ A)	
Rated residual making and breaking capacity		$I_{\Delta m}$	A	63	
Max. back-up fuse for short-circuit current g_L		I_v	A	63	
Maximum breaking times				1 x $I_{\Delta n}$: < 300 ms; 5 x $I_{\Delta n}$: < 40 ms	
Minimum response time delay				instantaneous	
Mechanical endurance			op. c.	min. 5000	
Electrical endurance			op. c.	min. 2000	
Minimum distance of open contacts			mm	4	
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)		S	mm ²	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	215	360

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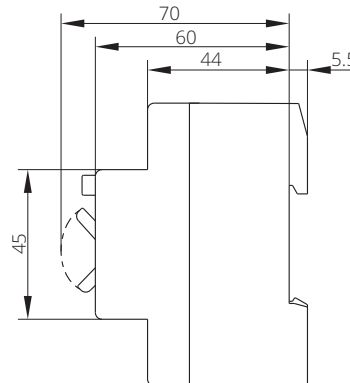
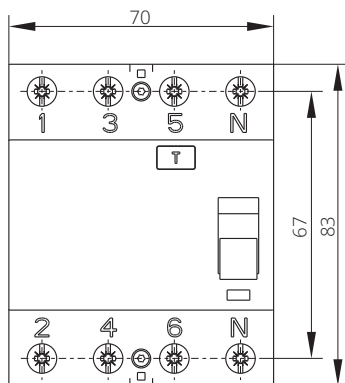
TECHNICAL DATA

RESIDUAL CURRENT CIRCUIT BREAKERS - AFI

AFI2



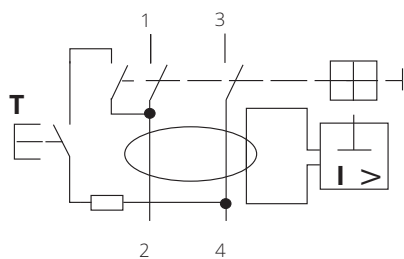
AFI4



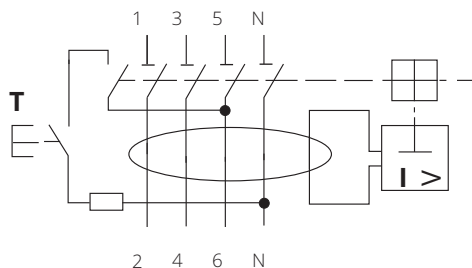
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Schematics

AFI2



AFI4



DIMENSIONS