

RCCB FH200. The details make the difference

A range designed to ensure efficiency and protection

2

Test pushbutton to verify the correct functioning of the device.

Bi-directional cylindrical terminals ensure higher safety of wiring operation, making them easier.

Information on the device are laser printed to make them clearly visible and long lasting.

Laser-marked order code on the front to make easier future orders.





Two terminals are available, the fore one for cables up to 25 mm², the back one for cables up to 10 mm² or for busbars.



FH200: a wide range of RCCBs with 2P and 4P configuration, rated currents from 25 to 63 A, available in AC and A type with rated sensitivity from 30 mA up to 300 mA.



The availability of two terminals offers different connection solutions thanks to the possibility to connect two independent cables in the same device: the second terminal can be used for an auxiliary circuit or for the supply of devices with small section cables without connecting them together with the main circuit.



All the safety ensured by the international marks: approvals' marking in a visible area, even if RCDs is installed and with the panel-door closed.



High performances:

- rated breaking capacity and rated residual breaking capacity laser printed on the device:
 $I_m = I_{\Delta m} = 1000 \text{ A}$
- coordination with a 63 A rated current SCPD (short-circuit protective device) = 6000 A.



The FH202 can be coupled with the autoreclosing unit F2C-ARH in order to ensure continuity of service for the whole installation of your home avoiding lack of supply.

Technical features table for residual current circuit breakers (RCCBs) FH200 Series

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Standards			
Electrical features			
Type (wave form of the earth leakage sensed)			
Poles			
Rated current I_n			A
Rated sensitivity $I_{\Delta n}$			mA
Rated voltage U_e			V
Insulation voltage U_i			V
Max. operating voltage of circuit test			V
Min. operating voltage of circuit test			V
Rated frequency			Hz
Rated conditional short-circuit current $I_{nc}=I_{\Delta c}$			kA
Rated residual breaking capacity $I_{\Delta m}=I_m$			kA
Rated impulse withstand voltage (1.2/50) U_{imp}			kV
Dielectric test voltage at ind. freq. for 1 min.			kV
Surge current resistance (wave 8/20)			A
Mechanical features			
Toggle			
Contact position indicator (CPI)			
Electrical life			
Mechanical life			
Protection degree	housing		
	terminals		
Tropicalization acc. to IEC/EN 60068-2	humid heat		°C/RH
	constant climatic conditions		°C/RH
	variable climatic conditions		°C/RH
Ambient temperature (with daily average $\leq +35$ °C)			°C
Storage temperature			°C
Installation			
Terminal type			
Terminal size top/bottom for cable			mm ²
Terminal size top/bottom for busbar			mm ²
Tightening torque			N*m
Tool			
Mounting			
Connection			
Dimensions and weight			
Dimensions (H x D x W)	2P		mm
	4P		mm
Weight	2P		g
	4P		g
Combination with auxiliary elements			
Combinable with:	F2C-ARH autoreclosing unit		



2CSC400030F0039



2CSC400030F0044

FH200

F200

IEC/EN 61008

AC	A	A S
2P, 4P		2P, 4P
25, 40, 63		40, 63
30, 100, 300	30	300
230/400 - 240/415		230/400 - 240/415
500		500
254		254
110		110
50..60		50..60
6 (with a SCPD-fuse gG 63A)		10 (with a SCPD-fuse gG 100A)
1		1
4		4
2.5		2.5
250		5000
BLACK sealable in ON-OFF position not available		BLUE sealable in ON-OFF position yes
10.000		10.000
20.000		20.000
IP4X		IP4X
IP2X		IP2X
28 cycles with 55/95...100		28 cycles with 55/95...100
23/83 - 40/93 - 55/20		23/83 - 40/93 - 55/20
25/95 - 40/95		25/95 - 40/95
-5..+40		-25..+55
-40...+70		-40...+70
failsafe bi-directional cylinder-lift terminal at top and bottom (shock protected)		failsafe bi-directional cylinder-lift terminal at top and bottom (shock protected)
25/25		25/25
10/10		10/10
2.8		2.8
Nr. 2 Pozidriv		Nr. 2 Pozidriv
on DIN rail EN 60715 (35 mm) by means of fast clip device from top and bottom		on DIN rail EN 60715 (35 mm) by means of fast clip device from top and bottom
85 x 69 x 35		85 x 69 x 35
85 x 69 x 70		85 x 69 x 70
200		200
350		350
yes (the 2 poles version 30mA and 100mA)		no

Ordering Information

FH200 - AC type

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2CSC400030R1630

FH202 AC



2CSC400030R16041

FH204 AC

Function: protection against the effects of sinusoidal alternating earth fault currents; protection against indirect contacts and additional protection against direct (with $I_{\Delta n}=30$ mA) contacts.

Standard: IEC/ EN 61008

Marking: according to EN 61008

N. of poles	Rated residual current	Rated current	N° module	Bbn 8012542	Order details		Price	Weight 1 piece Kg	Pack unit
	$I_{\Delta n}$ mA	In A	[17,5 mm]	EAN	Type code	Order code			
2	30	25	2	891802	FH202 AC-25/0.03	2CSF202002R1250		0.225	1/6
		40	2	891901	FH202 AC-40/0.03	2CSF202002R1400		0.225	1/6
		63	2	892007	FH202 AC-63/0.03	2CSF202002R1630		0.225	1/6
	300	25	2	893004	FH202 AC-25/0.3	2CSF202003R3250		0.225	1/6
		40	2	893103	FH202 AC-40/0.3	2CSF202003R3400		0.225	1/6
		63	2	893202	FH202 AC-63/0.3	2CSF202003R3630		0.225	1/6
4	30	25	4	892106	FH204 AC-25/0.03	2CSF204002R1250		0.375	1/3
		40	4	892205	FH204 AC-40/0.03	2CSF204002R1400		0.375	1/3
		63	4	892304	FH204 AC-63/0.03	2CSF204002R1630		0.375	1/3
	300	25	4	893301	FH204 AC-25/0.3	2CSF204003R3250		0.375	1/3
		40	4	893400	FH204 AC-40/0.3	2CSF204003R3400		0.375	1/3
		63	4	893509	FH204 AC-63/0.3	2CSF204003R3630		0.375	1/3

Ordering Information

FH200 - AC type (for overseas markets)



FH202 AC



FH204 AC

Function: protection against the effects of sinusoidal alternating earth fault currents; protection against indirect contacts and additional protection against direct (with $I_{\Delta n}=30$ mA) contacts.

Standard: IEC/ EN 61008

Marking: according to IEC 61008

N. of poles	Rated residual current	Rated current	N° module	Bbn 8012542	Order details		Price	Weight 1 piece Kg	Pack unit
	$I_{\Delta n}$ mA	In A	[17,5 mm]	EAN	Type code	Order code			
2	30	25	2	894209	FH202 AC-25/0.03	2CSF202006R1250		0.225	1/6
		40	2	894308	FH202 AC-40/0.03	2CSF202006R1400		0.225	1/6
		63	2	894407	FH202 AC-63/0.03	2CSF202006R1630		0.225	1/6
	100	25	2	894506	FH202 AC-25/0.1	2CSF202006R2250		0.225	1/6
		40	2	894605	FH202 AC-40/0.1	2CSF202006R2400		0.225	1/6
		63	2	894704	FH202 AC-63/0.1	2CSF202006R2630		0.225	1/6
	300	25	2	894803	FH202 AC-25/0.3	2CSF202006R3250		0.225	1/6
		40	2	894902	FH202 AC-40/0.3	2CSF202006R3400		0.225	1/6
		63	2	895008	FH202 AC-63/0.3	2CSF202006R3630		0.225	1/6
4	30	25	4	895107	FH204 AC-25/0.03	2CSF204006R1250		0.375	1/3
		40	4	895206	FH204 AC-40/0.03	2CSF204006R1400		0.375	1/3
		63	4	895305	FH204 AC-63/0.03	2CSF204006R1630		0.375	1/3
	100	25	4	895404	FH204 AC-25/0.1	2CSF204006R2250		0.375	1/3
		40	4	895503	FH204 AC-40/0.1	2CSF204006R2400		0.375	1/3
		63	4	895602	FH204 AC-63/0.1	2CSF204006R2630		0.375	1/3
	300	25	4	895701	FH204 AC-25/0.3	2CSF204006R3250		0.375	1/3
		40	4	895800	FH204 AC-40/0.3	2CSF204006R3400		0.375	1/3
		63	4	895909	FH204 AC-63/0.3	2CSF204006R3630		0.375	1/3

Ordering Information

FH200 A type - F200 A S type

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FH202 A



FH204 A

FH200 A type

Function: protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contacts and additional protection against direct (with $I_{\Delta n}=30$ mA) contacts.

Standard: IEC/ EN 61008

Marking: according to EN 61008

N. of poles	Rated residual current		N° module	Bbn 8012542		Order details		Price	Weight 1 piece	Pack unit
	$I_{\Delta n}$ mA	In A		[17,5 mm]	EAN	Type code	Order code			
2	30	25	2	892403	FH202 A-25/0.03	2CSF202102R1250		0.225	1/6	
		40	2	892502	FH202 A-40/0.03	2CSF202102R1400		0.225	1/6	
		63	2	892601	FH202 A-63/0.03	2CSF202102R1630		0.225	1/6	
4	30	25	4	892700	FH204 A-25/0.03	2CSF204102R1250		0.375	1/3	
		40	4	892809	FH204 A-40/0.03	2CSF204102R1400		0.375	1/3	
		63	4	892908	FH204 A-63/0.03	2CSF204102R1630		0.375	1/3	



F202 A S



F204 A S

F200 A S type

Function: protection against the effects of sinusoidal alternating and direct pulsating earth fault currents with an intentional tripping delay, which permits to realize the selectivity with downstream instantaneous devices; protection against indirect contacts.

Standard: IEC/EN 61008

Marking: according to EN 61008

N. of poles	Rated residual current		N° module	Bbn 8012542		Order details		Price	Weight 1 piece	Pack unit
	$I_{\Delta n}$ mA	In A		[17,5 mm]	EAN	Type code	Order code			
2	300	40	2	784302	F202 A S-40/0.3	2CSF202201R3400		0.225	1/6	
		63	2	784401	F202 A S-63/0.3	2CSF202201R3630		0.225	1/6	
4	300	40	4	784708	F204 A S-40/0.3	2CSF204201R3400		0.375	1/3	
		63	4	784807	F204 A S-63/0.3	2CSF204201R3630		0.375	1/3	

Technical details

Coordination tables

FH202

	Single-phases 230-240 V circuit		
	25 A	40 A	63 A
SH201 T - SH201 T NA - SH202 T	3	3	3
SH201 L - SH201 L NA - SH202 L	4.5	4.5	4.5
SH201 - SH201 NA - SH202	6	6	6

FH204

	Three-phases circuits with neutral (y/Δ) 230-240 V/400-415 V		
	25 A	40 A	63 A
SH201 T* - SH201 T NA* - SH202 T*	3	3	3
SH201 L* - SH201 L NA* - SH202 L*	4.5	4.5	4.5
SH201* - SH201 NA* - SH202*	6	6	6

* The switches are considered between phase and neutral (230/240V)

FH204

	Three-phases circuits with neutral (y/Δ) 230-240 V/400-415 V		
	25 A	40 A	63 A
SH203 T - SH203 T NA - SH204 T	3	3	3
SH203 L - SH203 L NA - SH204 L	4.5	4.5	4.5
SH203 - SH203 NA - SH204	6	6	6

Power loss

Rated current In [A]	Power loss W [W]	
	2P	4P
25	1.0	1.3
40	2.4	3.2
63	3.2	4.4