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CATALOG

# F 200 B

## Introduction of the series

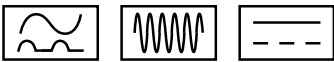


- New self-diagnostics feature
- Low stand-by power consumption
- Extended operating temperature range

# New F 200 series - B

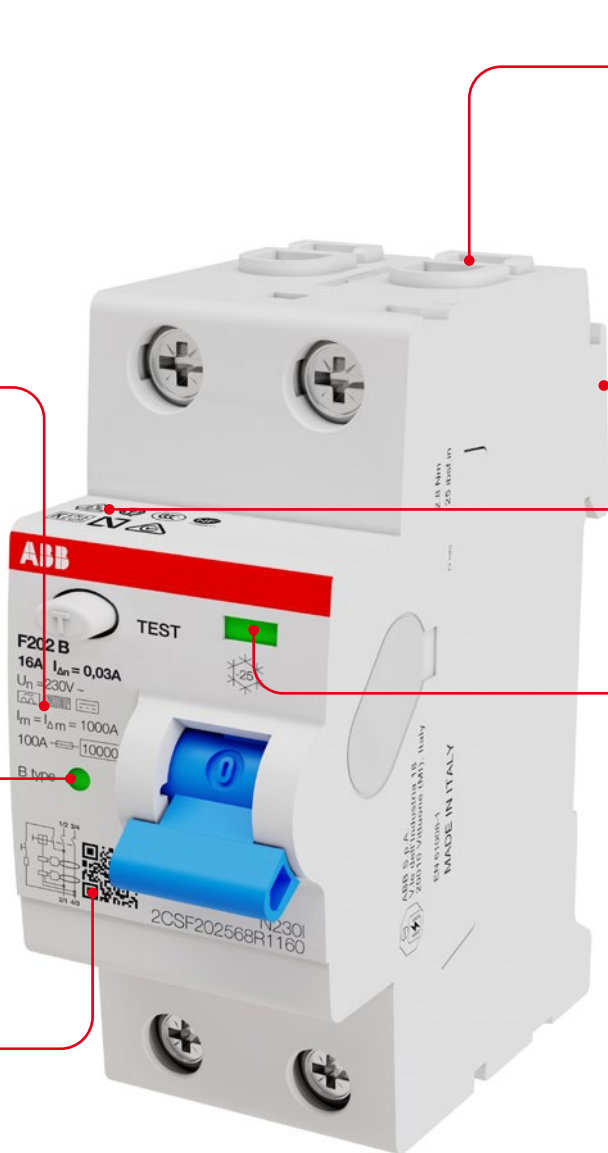
## Details that make the difference

Type B residual current devices are marked according to EN 62423. The marking reminds the different current types that Type B residual current devices are sensitive to



Frontal LED for device status monitoring

QR code to product webpage



Easy to connect thanks to the availability of two terminals slot and compatible with busbars thanks to the System pro M compact clamps

Two-pole device in only two modules

VDE approved

Indication of the position of the contacts

## F 200 series - B

### Details that make the difference

#### Compatibility

Compatible with all System Pro M compact accessories of F200 series. Higher operational continuity thanks to auto-reclosing units and motor operating devices.

#### Robustness to operating environment

Operating temperature from  $-25\text{ }^{\circ}\text{C}$  to  $+70\text{ }^{\circ}\text{C}$  (for system up to 32 A). High immunity against unwanted tripping.

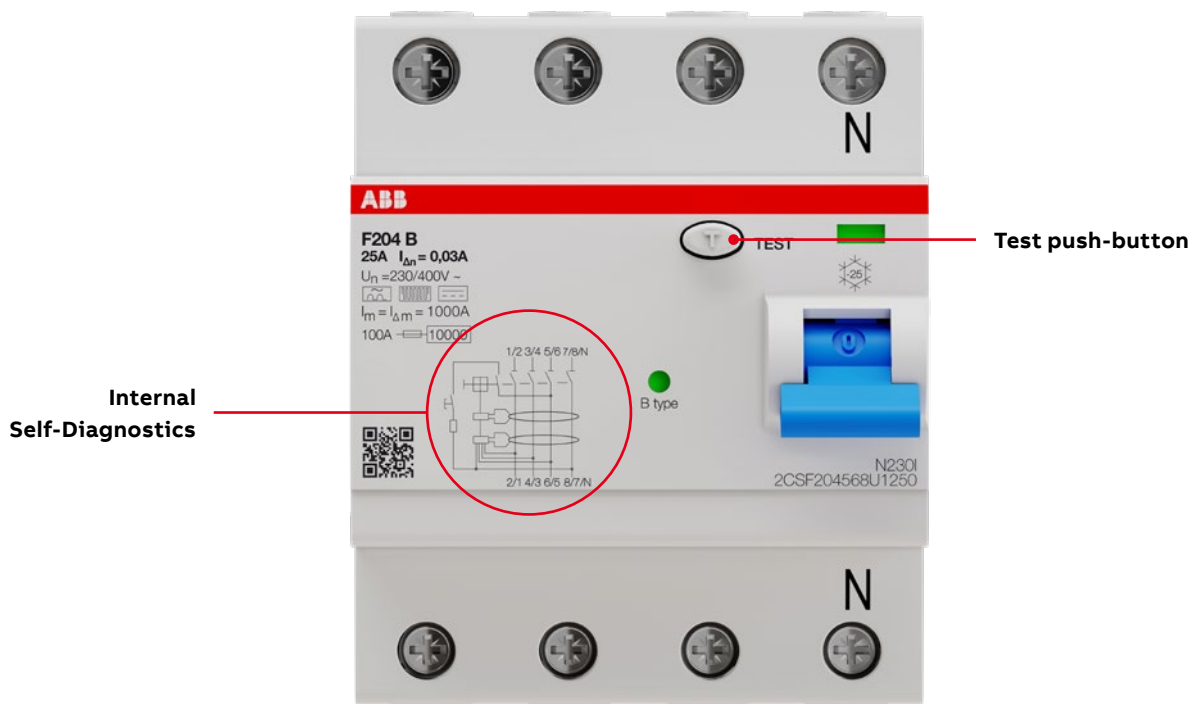
#### New self-diagnostics feature

Pushing the TEST button it is possible to check the proper functionality of the device regarding AC fault currents. Together with it, the new F200 B range is introducing a new SELF-DIAGNOSTICS feature. Thanks to this, the

device is able to continuously verify the status of the DC fault currents detection functionality: each few seconds, an internal micro-controller is able to check the status of the main electronic components as well as the firmware integrity of the Voltage Dependent PCBA.

#### Low power consumption and pollution degree 3

Extreme low stand by power consumption and pollution degree 3 features (for 16–63 A devices 30–300 mA) ensure great performance during the time.



## RCCBs

### F 200 series - B type technical features

		F200 B Type		F200 B Type high ratings	
		F202 B 16-63 A	F204 B 25-63 A	F204 B 80-125 A	
Standards		IEC/EN 61008-1, IEC/EN 61008-2-1, EN 62423			
Electrical features	Type (wave form of the earth leakage sensed)	B	B, B-S	B	
	Poles	2P	4P	4P	
	Rated current $I_n$	A 16, 25, 40, 63	25, 40, 63	80, 125	
	Rated sensitivity $I_{\Delta n}$	A 0,03 - 0,3	0,03 - 0,3 - 0,5	0,03 - 0,3 - 0,5	
	Rated voltage $U_e$	V AC 230	230/400	230/400	
	Insulation voltage $U_i$	V 440	440 - 500 <sup>1</sup>	400	
	Operating voltage of circuit test $U_t$	IEC/EN V 110 - 253 V AC 170 - 253 V AC (30 mA)	110 - 253 V AC 170 - 253 V AC (30 mA)	150 - 250 V AC (80 A) 200 - 250 V AC (80 A, 30 mA) 200 - 440 V AC (125 A) 250 - 440 V AC (125A, 30 mA)	
	Min. operating voltage for detecting Type A/AC/F residual currents	V AC 0	0	0	
	Min. operating voltage for detecting Type B residual currents	V AC 50	50	50	
	Rated frequency	Hz 50/60	50/60	50	
	Frequency range of residual current	kHz 2	2	100	
	Rated conditional short-circuit current $I_{nc}=I_{\Delta}^3$	SCPD - fuse gG/gL 100 A kA 10	10	10 (fuse gG 125 A)	
	Rated residual breaking capacity $I_{\Delta m}=I_m$	kA 1	1	125 A: 1,25 80 A: 1	
	Rated impulse withstand voltage (1.2/50) $U_{imp}$	kV 4	4	4	
	Dielectric test voltage at ind. freq. for 1 min.	kV 2,5	2,5	2,5	
	Overvoltage category	III, disconnecter abilities			
	Surge current resistance (wave 8/20)	A 3.000	3.000 - 5.000 (B S)	3.000 - 5.000 (B S)	
	Maximum electronic consumption	W 0,3	1,2 (3,5 <sup>1</sup> )		
	Mechanical features	Toggle	Blue sealable in ON-OFF		
		Contact position indicator (CPI)	yes	yes	yes
Electrical life		10.000	10.000	2.000	
Mechanical life		20.000	20.000	5.000	
Protection degree		housing terminals	IP4X IP2X	IP4X IP2X	IP4X IP2X
Environmental conditions (damp heat) acc. to IEC/EN 60068-2-30		°C/ RH	28 cycles with 55°C/90-96% and 25°C/95-100%		
Ambient temperature		IEC °C	-25...+70 (for system current ≤ 32 A) <sup>4</sup> -25...+65 for system current = 40 A <sup>4</sup> -25...+50 for system current = 63 A <sup>4</sup> For other system current see derating table		
Storage temperature		°C	40...+70		
Installation		Terminal Type	Failsafe bi-directional cylinder-lift terminal at top and bottom (shock protected) (cage for $I_n > 63 A$ ) <sup>2</sup>		
		Min/Max Terminal size top/bottom for cable	IEC Mm <sup>2</sup>	1 - 25	50
	Terminal size top/bottom for busbar	IEC Mm <sup>2</sup>	10/10	10/10	
	Tightening torque	IEC Nm	2,8	3	
	Tool	Flat tip PZ2			
	Mounting	Any position on DIN rail EN 60715 (35 mm) by means of fast clip device			
	Supply	Top/bottom			
Withdrawal from busbar	It is possible without using any tools only from the bottom				
Dimensions and weight	Dimensions (H x D x W)	2P Mm	85 x 69 x 35	85 x 69 x 70	
	Weight	2P g	200	380	
Combination with auxiliary elements	Combinable with:				
	auxiliary contact	yes	yes	no	
	signal contact/auxiliary switch	yes	yes	yes	
	motor operating device	yes	yes	no	
	shunt trip	yes	yes	no	
	undervoltage release	yes	yes	no	

<sup>1</sup> 500 mA devices

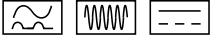
<sup>2</sup> Prior to connection of aluminium conductors (≥ 4 mm<sup>2</sup>) ensure that their contact points are cleaned, brushed and coated with grease

<sup>3</sup> For S750-E 63 A, S750DR-E/K 100 A and other SCPD back up coordination values are available.

<sup>4</sup> Constant temperature.

<sup>5</sup> With daily average < 35°C.

## RCCBs

F 200 series - B type 

### F200 B Type from 16 to 63 A



F202 B



F204 B

Number of poles	Rated residual current I $\Delta$ n mA	Rated current I <sub>n</sub> A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
2	30	16	341154	F202 B-16/0,03	2CSF202568R1160	0,220	1	1
		25	341253	F202 B-25/0,03	2CSF202568R1250	0,220	1	1
		40	341352	F202 B-40/0,03	2CSF202568R1400	0,220	1	1
		63	341154	F202 B-63/0,03	2CSF202568R1630	0,220	1	1
	300	16	341451	F202 B-16/0,3	2CSF202568R3160	0,220	1	1
		25	341550	F202 B-25/0,3	2CSF202568R3250	0,220	1	1
		40	341659	F202 B-40/0,3	2CSF202568R3400	0,220	1	1
		63	341758	F202 B-63/0,3	2CSF202568R3630	0,220	1	1
4	30	25	341857	F204 B-25/0,03	2CSF204568R1250	0,380	1	1
		40	341956	F204 B-40/0,03	2CSF204568R1400	0,380	1	1
		63	342052	F204 B-63/0,03	2CSF204568R1630	0,380	1	1
	300	25	342151	F204 B-25/0,3	2CSF204568R3250	0,380	1	1
		40	342250	F204 B-40/0,3	2CSF204568R3400	0,380	1	1
		63	342359	F204 B-63/0,3	2CSF204568R3630	0,380	1	1
	300 S	40	342458	F204 B S-40/0,3	2CSF204868R3400	0,380	1	1
		63	342557	F204 B S-63/0,3	2CSF204868R3630	0,380	1	1
	500	40	776932	F204 B-40/0,5 <sup>2</sup>	2CSF204592R4400	0,380	1	1
		63	347637	F204 B-63/0,5 <sup>2</sup>	2CSF204592R4630	0,380	1	1
	500 S	40	357834	F204 B S-40/0,5 <sup>2</sup>	2CSF204892R4400	0,380	1	1
		63	347538	F204 B S-63/0,5 <sup>2</sup>	2CSF204892R4630	0,380	1	1
2	30	25	356356	F202 B-25/0,03 U	2CSF202568U1250	0,220	48	48
4	30	25	356158	F204 B-25/0,03 U	2CSF204568U1250	0,380	24	24
		40	355953	F204 B-40/0,03 U	2CSF204568U1400	0,380	24	24
		63	356059	F204 B-63/0,03 U	2CSF204568U1630	0,380	24	24
	300	63	356257	F204 B-63/0,3 U	2CSF204568U3630	0,380	24	24

### F200 B Type high ratings

Number of poles	Rated residual current I $\Delta$ n mA	Rated current I <sub>n</sub> A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
4	30	80	988601	F204B-80/0,03 <sup>2</sup>	2CSF204501R1800	0,500	1	1
		125	988700	F204B-125/0,03L <sup>1,2</sup>	2CSF204523R1950	0,500	1	1
	300	80	989103	F204B-80/0,3 <sup>2</sup>	2CSF204501R3800	0,500	1	1
		125	989202	F204B-125/0,3L <sup>1,2</sup>	2CSF204523R3950	0,500	1	1
	300 S	125	989509	F204BS-125/0,3L <sup>1,2</sup>	2CSF204823R3950	0,500	1	1
	500	125	730439	F204B-125/0,5L <sup>1,2</sup>	2CSF204523R4950	0,500	1	1
	500 S	125	731238	F204BS-125/0,5L <sup>1,2</sup>	2CSF204823R4950	0,500	1	1



F204 B 100, 125 A

<sup>1</sup> Left-sided neutral pole  
<sup>2</sup> No-self-diagnostics



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