

Electrical installation solutions for buildings

Residual current devices

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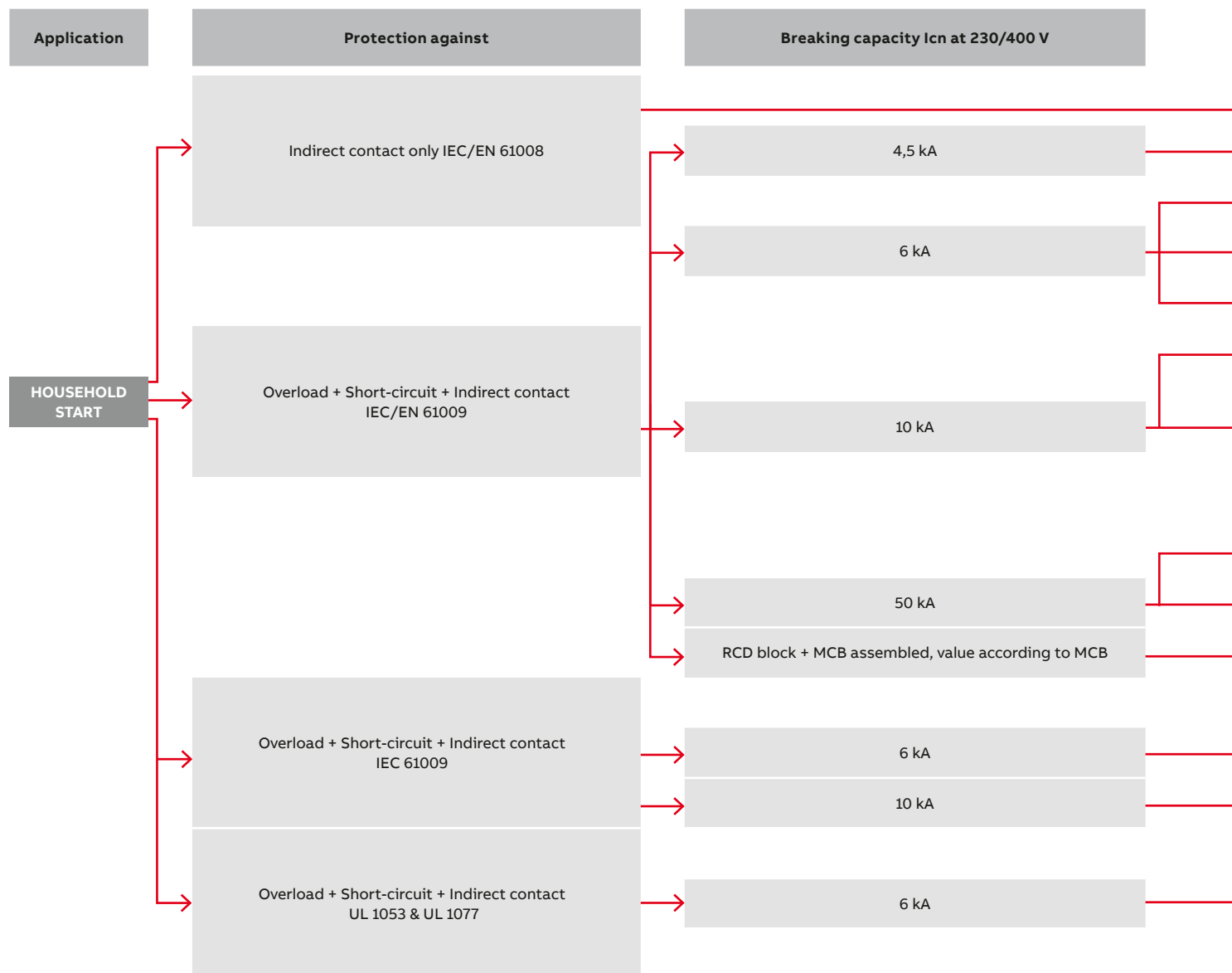
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System pro M compact®

Quick selection of RCDs for household and industrial applications

Easy! Find the right range and the corresponding catalogue page at a glance using this selection chart.



System pro M compact®

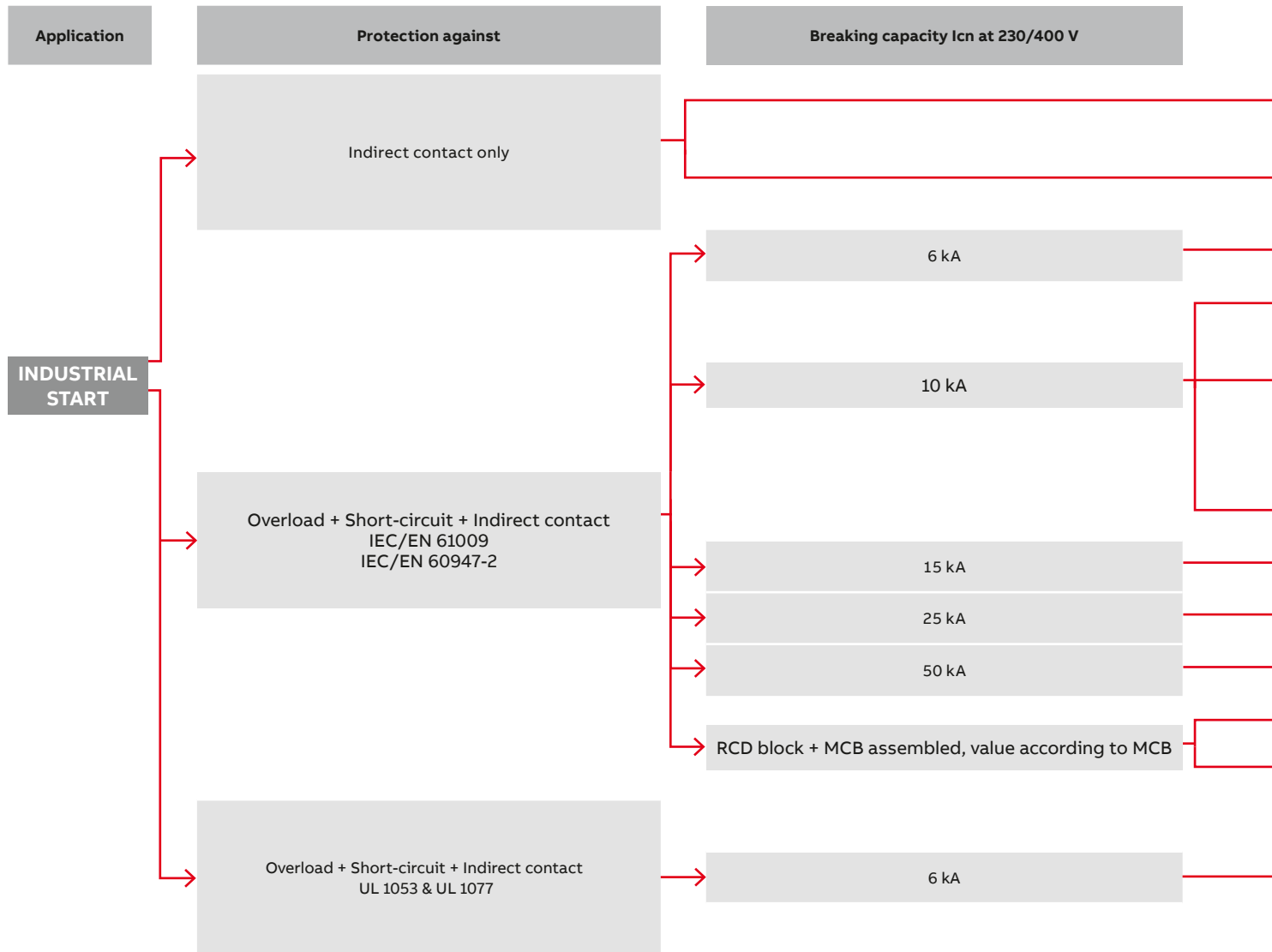
Quick selection of RCDs for household and industrial applications

	Rated current	Remark	Poles	Solution	Page
→	Up to 125 A	→	All poles	F200	2/10
→	Up to 32 A	→	1P+N	DS201L	2/60
→	Up to 40 A	→ Reduced size	2P	DS202CR	2/84
→	Up to 40 A	→ Reduced size	1P+N	DS201 DS301C	2/62
→	Up to 63 A	→ Standard size	All poles	DS 200	2/111
→	Up to 40 A	→ Reduced size	2P	DS202CR M	2/86
→	Up to 40 A	→ Reduced size	1P+N	DS201M DS301C	2/72
→	Up to 63 A	→ Standard size	All poles	DS 200 M	2/115
→	Up to 125 A	→	All poles	DS800P	2/122
→	Up to 63 A	→ RCD: IEC/EN 61009 Ann. G	All poles	DDA 200 + S200	2/36 + 1/32
→	Up to 50 A	→ Voltage dependent	1P+N	DSE201	2/132
→	Up to 50 A	→ Voltage dependent	1P+N	DSE201M	2/138
→	Up to 25 A	→ Reduced size	1P+N	DS201 UL	2/81

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Quick selection of RCDs for household and industrial applications

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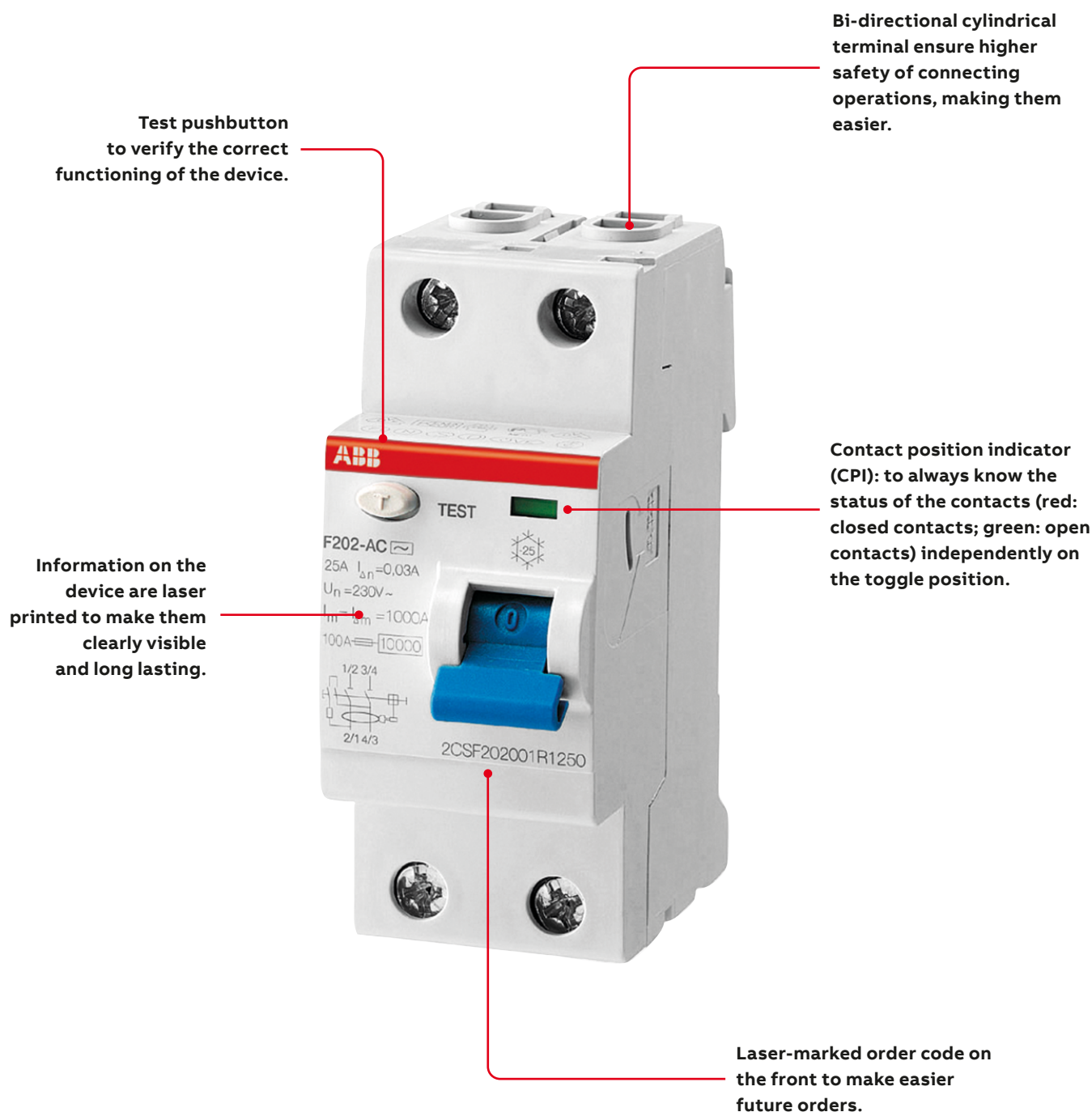
Quick selection of RCDs for household and industrial applications

Rated current	Remark	Poles	Solution	Page
Up to 125 A	IEC/EN 61008	All poles	F200	2/10
According to MCB	IEC/EN 60947-2 Ann. M	All poles	RD3	2/143
Up to 32 A		1P+N	DS201 L	2/60
Up to 40 A		2P	DS202CR, DS202CR M	2/84, 2/86
Up to 40 A		1P+N	DS201, DS201 M DS301C	2/62, 2/72
Up to 63 A		All poles	DS 200	2/111
Up to 63 A		All poles	DS 200 M	2/115
Up to 100 A		All poles	DDA 800	2/50
Up to 125 A		All poles	DS800P	2/122
Up to 63 A	RCD: IEC/EN 61009 Ann. G	All poles	DDA 200 + S200	2/36 + 1/32
Up to 100 A	RCD: IEC/EN 60947-2 Ann. B	All poles	DDA 800 + S800	2/50 + 1/114
Up to 25 A	Reduced size	1P+N	DS201 UL	2/81

RCCB F 200.

The details make the difference

A range designed to ensure efficiency and protection





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.



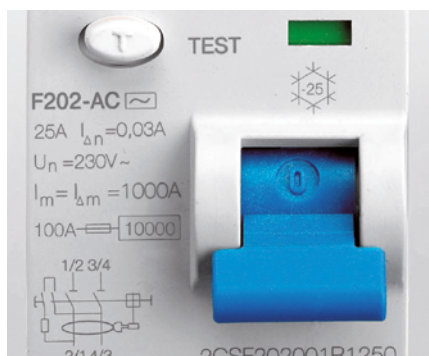
RCCBs F200 can be used in ambient conditions where the temperature of the surrounding atmosphere has values between -25 °C (snowflake laser printed on the front of the device) and +55 °C.



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 100 A rated current SCPD (short-circuit protective device) = 10 000 A.



The F 202 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.

RCCBs

F200 technical features



- ① Ground-fault sensing and relaying equipment-component (up to 63 A)
- ② prior to connection of aluminium conductors ($\geq 4 \text{ mm}^2$) ensure that their contact points are cleaned, brushed and coated with grease
- ③ S750-E 63A, S750DR-E/K 63A and other SCPD coordination values see Chapter 3 of Solutions for electrical distribution in buildings - technical details
- ④ F200 left neutral has not the UL certification and the UL mark
- ⑤ Only for versions with marking according to EN 61008-1; EN 61008-2-1
- ⑥ Neutral conductor can be wired anywhere for 2P devices

Standards			
Electrical features	Type (wave form of the earth leakage sensed)		
	Number of poles		
	Rated current I_n		A
	Rated sensitivity $I_{\Delta n}$		A
	Rated operational voltage U_e	IEC	V
		UL/CSA	V
	Rated Insulation voltage U_i acc. to IEC/EN 60664-1		V
	Operating voltage of circuit test U_t	IEC	V
		UL/CSA	V
	Rated frequency f		Hz
	Rated conditional short-circuit current $I_{nc}=I_{\Delta 3}$	SCPD - fuse gG 100 A	kA
	Rated residual breaking capacity $I_{\Delta m}=I_m$		kA
	Grid distance		mm
	Rated impulse withstand voltage $U_{imp.}$ (1.2/50 μ s)		kV
	Dielectric test voltage at ind. freq. for 1 min.		kV
Mechanical features	Overvoltage category		
	Pollution degree		
	Surge current resistance (wave 8/20)		A
	Housing Type		
	Toggle Type		
	Contact position indicator (CPI)		
	Electrical endurance		cycles (OFF-ON-OFF)
	Mechanical endurance		cycles (OFF-ON-OFF)
	Protection degree	housing terminals	
	Environmental conditions (damp heat) acc. to IEC/EN 60068-2-30		°C/RH
	Resistance to Shock acc. to IEC 60068-2-27		
	Resistance to Vibrations acc. to IEC 60068-2-6		
	Ambient temperature (with daily average $\leq +35^\circ\text{C}$)	IEC	°C
	Storage temperature		°C
Installation	Terminal type		
	Cross-section of conductors	IEC (top / bottom)	mm ²
		UL/CSA (top / bottom)	AWG
	Cross-section of busbars	IEC (top / bottom)	mm ²
		UL/CSA (top / bottom)	AWG
	Tightening torque	IEC	Nm
		UL/CSA	in-lbs.
	Wire Stripping Length		
	Screwdriver		
	Mounting Type		
Dimensions and weight	Mounting position		
	Supply from		
	Dimensions (H x D x W)	2P	mm
		4P	mm
	Weight	2P	g
		4P	g
Combination with auxiliary elements	Combinable with:		
	auxiliary contact		
	signal contact/auxiliary switch		
	shunt trip		
	undervoltage release		

RCCBs

F200 technical features

F200 AC	F200 A	F200 A AP-R	F200 A S	F200 A 110V	F200 A 400 Hz	F200 A 16 2/3 Hz	F200 F
IEC/EN 61008-1; IEC/EN 61008-2-1, UL 1053 ①				IEC 61008-1; IEC 61008-2-1; UL 1053	IEC/EN 61008-1; IEC/EN 61008-2-1	IEC/EN 61008-1; IEC/EN 61008-2-1	IEC/EN 61008, IEC/EN 62423 2 nd ed
AC	A	A	A	A	A	A	F
2P ⑥, 4P (for 125 A only 4P)				2P, 4P	4P	2P, 4P	2P, 4P
16, 25, 40, 63, 80, 100, 125		25, 40, 63, 80, 100, 125	40, 63, 80, 100, 125	25, 40, 63, 80, 100	25, 40	63	25, 40, 63
0.01-0.03-0.1-0.3-0.5		0.03	0.1-0.3-0.5-1	0.03	0.03	0.03-0.3-0.5	0.03
230/400 - 240/415							
480Y/277 (up to 100 A)				-	-		-
500							
In ≤ 100; Right neutral: 110 (170 for 30mA) - 254 ⑤; Left neutral: 195 (300 for 30 mA) - 440 ⑤; In = 125 A; Right neutral: 100 (150 for 30 mA) - 250 ⑤; Left neutral: 200 (250 for 30 mA) - 440				110-254	170-254	110 (170 for 30 mA) - 254	170/259
In ≤ 100; Right neutral: 110 - 277; Left neutral: 195 - 480 ④					-		-
50/60					50/400	16 2/3	50/60
10 (for 125 A fuse is gG 125 A)							10
1 (1.25 for 125 A)							1
35							
4							
2.5							
III, disconnector abilities							-
2							
NA		3000	5000	NA	NA	NA	3000
RAL 7035							
RAL 5015							
yes							
10000 (2000 for 125 A)				10000	10000	10000	10000
20000 (5000 for 125 A)				20000	20000	20000	20000
IP40							
IP20							
28 cycles with 55°C/90-96% and 25°C/95-100%							
25g - 2 shocks - 13ms							
0,1 mm or 1 g - 20 cycles at 5...150...5 Hz							
-25...+55 (-25...+40 for 125 A)				-25...+55	-25...+55	-25...+55	-25...+55
-40...+70							
failsafe bi-directional cylinder-lift terminal at top and bottom (shock protected) (cage for In > 63 A) ②							
25/25 (35/35 single slot terminal for In > 63 A)					25/25	25/25	25/25
18-4 (up to 63 A)				-	-	-	-
10/10 (not for In = 80-100 A)					10/10	10/10	10/10
18-8 (up to 63 A)				-	-	-	-
2.8 (3 for In = 125 A)				2.8	2.8	2.8	2.8
25 (up to 63 A)				-	-	-	-
12 mm (for In=80-100 A 12,7 mm Top terminals and 14,9 mm Bottom terminals)							
Nr. 2 Pozidriv							
on DIN rail EN 60715 (35 mm) by means of fast clip device							
Any							
from top and bottom							
85 x 69 x 35					-	-	85 x 69 x 35
85 x 69 x 70 (85 x 69.5 x 72 for 125 A)					85 x 69 x 70	85 x 69 x 70	85 x 69 x 70
200					-	-	225
360 (380 for In = 80 and 100 A and 500 for In = 125 A)					360	360	375
yes (no for 125 A)					yes	yes	yes
yes					yes	yes	yes
yes (no for 125 A)					yes	yes	yes
yes (no for 125 A)					yes	yes	yes

RCCBs

F 200 series AC  type



F202

F 200 AC type

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

Application: residential, commercial, industrial.

Standard: IEC/EN 61008-1; IEC/EN 61008-2-1

Marking: according to EN 61008-1; EN 61008-2-1

Number of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
2	10	16	779902	F202 AC-16/0.01	2CSF202001R0160		0.200	1/6
		25	738022	F202 AC-25/0.01	2CSF202001R0250		0.200	1/6
	30	25	780007	F202 AC-25/0.03	2CSF202001R1250		0.200	1/6
		40	780106	F202 AC-40/0.03	2CSF202001R1400		0.200	1/6
		63	780205	F202 AC-63/0.03	2CSF202001R1630		0.200	1/6
		80	914204	F202 AC-80/0.03	2CSF202001R1800		0.200	1/6
		100	914303	F202 AC-100/0.03	2CSF202001R1900		0.200	1/6
	100	25	780304	F202 AC-25/0.1	2CSF202001R2250		0.200	1/6
		40	780403	F202 AC-40/0.1	2CSF202001R2400		0.200	1/6
		63	780502	F202 AC-63/0.1	2CSF202001R2630		0.200	1/6
		80	914402	F202 AC-80/0.1	2CSF202001R2800		0.200	1/6
		100	914501	F202 AC-100/0.1	2CSF202001R2900		0.200	1/6
	300	25	780601	F202 AC-25/0.3	2CSF202001R3250		0.200	1/6
		40	780700	F202 AC-40/0.3	2CSF202001R3400		0.200	1/6
		63	780809	F202 AC-63/0.3	2CSF202001R3630		0.200	1/6
		80	914600	F202 AC-80/0.3	2CSF202001R3800		0.200	1/6
		100	914709	F202 AC-100/0.3	2CSF202001R3900		0.200	1/6
	500	25	780908	F202 AC-25/0.5	2CSF202001R4250		0.200	1/6
		40	781004	F202 AC-40/0.5	2CSF202001R4400		0.200	1/6
		63	781103	F202 AC-63/0.5	2CSF202001R4630		0.200	1/6
		80	914808	F202 AC-80/0.5	2CSF202001R4800		0.200	1/6
		100	914907	F202 AC-100/0.5	2CSF202001R4900		0.200	1/6

RCCBs

F 200 series AC  type



F204



F204 125 A

Number of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
4	30	25	781202	F204 AC-25/0.03	2CSF204001R1250		0.360	1/3
		40	781301	F204 AC-40/0.03	2CSF204001R1400		0.360	1/3
		63	781400	F204 AC-63/0.03	2CSF204001R1630		0.360	1/3
		80	916604	F204 AC-80/0.03	2CSF204001R1800		0.405	1/3
		100	916703	F204 AC-100/0.03	2CSF204001R1900		0.405	1/3
		125	941507	F204 AC-125/0.03	2CSF204001R1950		0.500	1
	100	25	781509	F204 AC-25/0.1	2CSF204001R2250		0.360	1/3
		40	781608	F204 AC-40/0.1	2CSF204001R2400		0.360	1/3
		63	781707	F204 AC-63/0.1	2CSF204001R2630		0.360	1/3
		80	916802	F204 AC-80/0.1	2CSF204001R2800		0.405	1/3
		100	916901	F204 AC-100/0.1	2CSF204001R2900		0.405	1/3
		125	941606	F204 AC-125/0.1	2CSF204001R2950		0.500	1
	300	25	781806	F204 AC-25/0.3	2CSF204001R3250		0.360	1/3
		40	781905	F204 AC-40/0.3	2CSF204001R3400		0.360	1/3
		63	782001	F204 AC-63/0.3	2CSF204001R3630		0.360	1/3
		80	917007	F204 AC-80/0.3	2CSF204001R3800		0.405	1/3
		100	917106	F204 AC-100/0.3	2CSF204001R3900		0.405	1/3
		125	941705	F204 AC-125/0.3	2CSF204001R3950		0.500	1
	500	25	782100	F204 AC-25/0.5	2CSF204001R4250		0.360	1/3
		40	782209	F204 AC-40/0.5	2CSF204001R4400		0.360	1/3
		63	782308	F204 AC-63/0.5	2CSF204001R4630		0.360	1/3
		80	917205	F204 AC-80/0.5	2CSF204001R4800		0.405	1/3
		100	917304	F204 AC-100/0.5	2CSF204001R4900		0.405	1/3
		125	941804	F204 AC-125/0.5	2CSF204001R4950		0.500	1

RCCBs

F 200 series AC  type, for overseas markets



F202

F 200 AC type (for overseas markets)

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

Application: residential, commercial, industrial.

Standard: IEC 61008-1; IEC 61008-2-1

Marking: according to IEC 61008-1; IEC 61008-2-1

Number of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
2	10	16	814603	F202 AC-16/0.01	2CSF202005R0160		0.200	1/6
	30	25	814702	F202 AC-25/0.03	2CSF202005R1250		0.200	1/6
		40	814801	F202 AC-40/0.03	2CSF202005R1400		0.200	1/6
		63	814900	F202 AC-63/0.03	2CSF202005R1630		0.200	1/6
		80	935902	F202 AC-80/0.03	2CSF202005R1800		0.200	1/6
		100	936008	F202 AC-100/0.03	2CSF202005R1900		0.200	1/6
	100	25	815006	F202 AC-25/0.1	2CSF202005R2250		0.200	1/6
		40	815105	F202 AC-40/0.1	2CSF202005R2400		0.200	1/6
		63	815204	F202 AC-63/0.1	2CSF202005R2630		0.200	1/6
		80	936107	F202 AC-80/0.1	2CSF202005R2800		0.200	1/6
		100	936206	F202 AC-100/0.1	2CSF202005R2900		0.200	1/6
	300	25	815303	F202 AC-25/0.3	2CSF202005R3250		0.200	1/6
		40	815402	F202 AC-40/0.3	2CSF202005R3400		0.200	1/6
		63	815501	F202 AC-63/0.3	2CSF202005R3630		0.200	1/6
		80	936305	F202 AC-80/0.3	2CSF202005R3800		0.200	1/6
		100	936404	F202 AC-100/0.3	2CSF202005R3900		0.200	1/6
	500	25	883302	F202 AC-25/0.5	2CSF202005R4250		0.200	1/6
		40	883401	F202 AC-40/0.5	2CSF202005R4400		0.200	1/6
		63	883500	F202 AC-63/0.5	2CSF202005R4630		0.200	1/6
		80	936503	F202 AC-80/0.5	2CSF202005R4800		0.200	1/6
		100	936602	F202 AC-100/0.5	2CSF202005R4900		0.200	1/6

RCCBs

F 200 series AC  type, for overseas markets



F204

Number of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
4	30	25	817109	F204 AC-25/0.03	2CSF204005R1250		0.360	1/3
		40	817208	F204 AC-40/0.03	2CSF204005R1400		0.360	1/3
		63	817307	F204 AC-63/0.03	2CSF204005R1630		0.360	1/3
		80	936701	F204 AC-80/0.03	2CSF204005R1800		0.405	1/3
		100	936800	F204 AC-100/0.03	2CSF204005R1900		0.405	1/3
	100	25	817406	F204 AC-25/0.1	2CSF204005R2250		0.360	1/3
		40	817505	F204 AC-40/0.1	2CSF204005R2400		0.360	1/3
		63	817604	F204 AC-63/0.1	2CSF204005R2630		0.360	1/3
		80	936909	F204 AC-80/0.1	2CSF204005R2800		0.405	1/3
		100	937005	F204 AC-100/0.1	2CSF204005R2900		0.405	1/3
	300	25	817703	F204 AC-25/0.3	2CSF204005R3250		0.360	1/3
		40	817802	F204 AC-40/0.3	2CSF204005R3400		0.360	1/3
		63	817901	F204 AC-63/0.3	2CSF204005R3630		0.360	1/3
		80	937104	F204 AC-80/0.3	2CSF204005R3800		0.405	1/3
		100	937203	F204 AC-100/0.3	2CSF204005R3900		0.405	1/3
	500	25	883609	F204 AC-25/0.5	2CSF204005R4250		0.360	1/3
		40	883609	F204 AC-40/0.5	2CSF204005R4400		0.360	1/3
		63	883807	F204 AC-63/0.5	2CSF204005R4630		0.360	1/3
		80	937302	F204 AC-80/0.5	2CSF204005R4800		0.405	1/3
		100	937401	F204 AC-100/0.5	2CSF204005R4900		0.405	1/3

RCCBs

F 200 series AC type left neutral



F204 left neutral



F204 left neutral 125 A

F 200 AC type with neutral pole on the left

Function: protection against the effects of sinusoidal alternating earth fault currents; protection against indirect contacts and additional protection against direct contacts (with $I_n=30$ mA). Product helpful where for installation habits, for wiring with busbars or cables, for special needs neutral on the left is needed.

Application: residential, commercial, industrial.

Standard: IEC/EN 61008-1; IEC/EN 61008-2-1

Marking: according to EN 61008-1; EN 61008-2-1

Number of poles	Rated residual current I_n mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
4	30	25	815907	F204 AC-25/0.03	2CSF204023R1250		0.360	1/3
		40	816003	F204 AC-40/0.03	2CSF204023R1400		0.360	1/3
		63	816102	F204 AC-63/0.03	2CSF204023R1630		0.360	1/3
		80	917403	F204 AC-80/0.03	2CSF204023R1800		0.405	1/3
		100	917502	F204 AC-100/0.03	2CSF204023R1900		0.405	1/3
		125	975106	F204 AC-125/0.03	2CSF204023R1950		0.500	1
	100	25	816201	F204 AC-25/0.1	2CSF204023R2250		0.360	1/3
		40	816300	F204 AC-40/0.1	2CSF204023R2400		0.360	1/3
		63	816409	F204 AC-63/0.1	2CSF204023R2630		0.360	1/3
	300	25	816508	F204 AC-25/0.3	2CSF204023R3250		0.360	1/3
		40	816607	F204 AC-40/0.3	2CSF204023R3400		0.360	1/3
		63	816706	F204 AC-63/0.3	2CSF204023R3630		0.360	1/3
		80	917601	F204 AC-80/0.3	2CSF204023R3800		0.405	1/3
		100	917700	F204 AC-100/0.3	2CSF204023R3900		0.405	1/3
500	500	25	816805	F204 AC-25/0.5	2CSF204023R4250		0.360	1/3
		40	816904	F204 AC-40/0.5	2CSF204023R4400		0.360	1/3
		63	817000	F204 AC-63/0.5	2CSF204023R4630		0.360	1/3

RCCBs

F 200 series A  type



F202

F 200 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 contacts (with $I_{\Delta n}=30$ mA).

Application: residential, commercial, industrial.

Standard: IEC/EN 61008-1; IEC/EN 61008-2-1

Marking: according to EN 61008-1; EN 61008-2-1

Number of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
2	10	16	782407	F202 A-16/0.01	2CSF202101R0160		0.200	1/6
	30	25	782506	F202 A-25/0.03	2CSF202101R1250		0.200	1/6
		40	782605	F202 A-40/0.03	2CSF202101R1400		0.200	1/6
		63	782704	F202 A-63/0.03	2CSF202101R1630		0.200	1/6
		80	915201	F202 A-80/0.03	2CSF202101R1800		0.200	1/6
		100	915300	F202 A-100/0.03	2CSF202101R1900		0.200	1/6
	100	25	786900	F202 A-25/0.1	2CSF202101R2250		0.200	1/6
		40	787006	F202 A-40/0.1	2CSF202101R2400		0.200	1/6
		63	787105	F202 A-63/0.1	2CSF202101R2630		0.200	1/6
		80	915409	F202 A-80/0.1	2CSF202101R2800		0.200	1/6
		100	915508	F202 A-100/0.1	2CSF202101R2900		0.200	1/6
	300	25	782803	F202 A-25/0.3	2CSF202101R3250		0.200	1/6
		40	782902	F202 A-40/0.3	2CSF202101R3400		0.200	1/6
		63	783008	F202 A-63/0.3	2CSF202101R3630		0.200	1/6
		80	915607	F202 A-80/0.3	2CSF202101R3800		0.200	1/6
		100	915706	F202 A-100/0.3	2CSF202101R3900		0.200	1/6
	500	25	783107	F202 A-25/0.5	2CSF202101R4250		0.200	1/6
		40	783206	F202 A-40/0.5	2CSF202101R4400		0.200	1/6
		63	783305	F202 A-63/0.5	2CSF202101R4630		0.200	1/6
		80	915805	F202 A-80/0.5	2CSF202101R4800		0.200	1/6
		100	915904	F202 A-100/0.5	2CSF202101R4900		0.200	1/6

RCCBs

F 200 series A  type



F204



F204 125 A

Number of poles	Rated residual current I Δ n mA	Rated current I n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
4	30	25	783404	F204 A-25/0.03	2CSF204101R1250		0.360	1/3
		40	783503	F204 A-40/0.03	2CSF204101R1400		0.360	1/3
		63	783602	F204 A-63/0.03	2CSF204101R1630		0.360	1/3
		80	917809	F204 A-80/0.03	2CSF204101R1800		0.405	1/3
		100	917908	F204 A-100/0.03	2CSF204101R1900		0.405	1/3
		125	941903	F204 A-125/0.03	2CSF204101R1950		0.500	1
	100	25	787204	F204 A-25/0.1	2CSF204101R2250		0.360	1/3
		40	787303	F204 A-40/0.1	2CSF204101R2400		0.360	1/3
		63	787402	F204 A-63/0.1	2CSF204101R2630		0.360	1/3
		80	918004	F204 A-80/0.1	2CSF204101R2800		0.405	1/3
		100	918103	F204 A-100/0.1	2CSF204101R2900		0.405	1/3
		125	942009	F204 A-125/0.1	2CSF204101R2950		0.500	1
	300	25	783701	F204 A-25/0.3	2CSF204101R3250		0.360	1/3
		40	783800	F204 A-40/0.3	2CSF204101R3400		0.360	1/3
		63	783909	F204 A-63/0.3	2CSF204101R3630		0.360	1/3
		80	918202	F204 A-80/0.3	2CSF204101R3800		0.405	1/3
		100	918301	F204 A-100/0.3	2CSF204101R3900		0.405	1/3
		125	942108	F204 A-125/0.3	2CSF204101R3950		0.500	1
	500	25	784005	F204 A-25/0.5	2CSF204101R4250		0.360	1/3
		40	784104	F204 A-40/0.5	2CSF204101R4400		0.360	1/3
		63	784203	F204 A-63/0.5	2CSF204101R4630		0.360	1/3
		80	918400	F204 A-80/0.5	2CSF204101R4800		0.405	1/3
		100	918509	F204 A-100/0.5	2CSF204101R4900		0.405	1/3
		125	942207	F204 A-125/0.5	2CSF204101R4950		0.500	1

RCCBs

F 200 series A  type left neutral



F204 left neutral



F204 left neutral 125 A

F 200 A type with neutral pole on the left

Function: protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contacts and additional protection against direct contacts (with $I_{\Delta n}=30$ mA). Product helpful where for installation habits, for wiring with bus-bars or cables, for special needs neutral on the left is needed.

Application: residential, commercial, industrial.

Standard: IEC/EN 61008-1; IEC/EN 61008-2-1

Marking: according to EN 61008-1; EN 61008-2-1

Number of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
4	30	25	820109	F204 A-25/0.03	2CSF204123R1250		0.360	1/3
		40	820208	F204 A-40/0.03	2CSF204123R1400		0.360	1/3
		63	820307	F204 A-63/0.03	2CSF204123R1630		0.360	1/3
		80	918608	F204 A-80/0.03	2CSF204123R1800		0.405	1/3
		100	918707	F204 A-100/0.03	2CSF204123R1900		0.405	1/3
		125	967705	F204 A-125/0.03	2CSF204123R1950		0.500	1
100	25	25	820406	F204 A-25/0.1	2CSF204123R2250		0.360	1/3
		40	820505	F204 A-40/0.1	2CSF204123R2400		0.360	1/3
		63	820604	F204 A-63/0.1	2CSF204123R2630		0.360	1/3
300	25	25	820703	F204 A-25/0.3	2CSF204123R3250		0.360	1/3
		40	820802	F204 A-40/0.3	2CSF204123R3400		0.360	1/3
		63	820901	F204 A-63/0.3	2CSF204123R3630		0.360	1/3
		80	918806	F204 A-80/0.3	2CSF204123R3800		0.405	1/3
		100	918905	F204 A-100/0.3	2CSF204123R3900		0.405	1/3
		125	967804	F204 A-125/0.3	2CSF204123R3950		0.500	1
500	25	25	821007	F204 A-25/0.5	2CSF204123R4250		0.360	1/3
		40	821106	F204 A-40/0.5	2CSF204123R4400		0.360	1/3
		63	821205	F204 A-63/0.5	2CSF204123R4630		0.360	1/3

RCCBs

F 200 series A  type, AP-R (high immunity)



F202



F204



F204 125 A

F 200 AP-R, A type

Function: protection against the effects of sinusoidal alternating and direct pulsating earth fault currents, providing the best compromise between safety and continuity in the service thanks to the resistance to unwanted trippings; protection against indirect contacts and additional protection against direct contacts ($I_{\Delta n}=30$ mA).

Application: residential, commercial, industrial.

Standard: IEC/EN 61008-1; IEC/EN 61008-2-1

Surge current resistance (wave 8/20)=3000 A

Marking: according to EN 61008-1; EN 61008-2-1

Number of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
2	30	25	785101	F202 A-25/0.03 AP-R	2CSF202401R1250		0.200	1/6
		40	785200	F202 A-40/0.03 AP-R	2CSF202401R1400		0.200	1/6
		63	785309	F202 A-63/0.03 AP-R	2CSF202401R1630		0.200	1/6
		80	916406	F202 A-80/0.03 AP-R	2CSF202401R1800		0.200	1/6
		100	916505	F202 A-100/0.03 AP-R	2CSF202401R1900		0.200	1/6

Number of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
4	30	25	785408	F204 A-25/0.03 AP-R	2CSF204401R1250		0.360	1/3
		40	785507	F204 A-40/0.03 AP-R	2CSF204401R1400		0.360	1/3
		63	785606	F204 A-63/0.03 AP-R	2CSF204401R1630		0.360	1/3
		80	919407	F204 A-80/0.03 AP-R	2CSF204401R1800		0.405	1/3
		100	919506	F204 A-100/0.03 AP-R	2CSF204401R1900		0.405	1/3
		125	967903	F204 A-125/0.03 AP-R	2CSF204401R1950		0.500	1

RCCBs

F 200 series A  type, selective



F202



F204



F204 125 A

F 200 A selective 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 (for more information about selectivity see the technical guide); protection against indirect contacts.

Application: commercial, industrial.

Standard: IEC/EN 61008-1; IEC/EN 61008-2-1

Surge current resistance (wave 8/20)=5000 A

Marking: according to EN 61008-1; EN 61008-2-1

Number of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
2	100	40	822905	F202 A S-40/0.1	2CSF202201R2400		0.200	1/6
		63	823001	F202 A S-63/0.1	2CSF202201R2630		0.200	1/6
		100	916000	F202 A S-100/0.1	2CSF202201R2900		0.200	1/6
	300	40	784302	F202 A S-40/0.3	2CSF202201R3400		0.200	1/6
		63	784401	F202 A S-63/0.3	2CSF202201R3630		0.200	1/6
		100	916109	F202 A S-100/0.3	2CSF202201R3900		0.200	1/6
	500	40	784500	F202 A S-40/0.5	2CSF202201R4400		0.200	1/6
		63	784609	F202 A S-63/0.5	2CSF202201R4630		0.200	1/6
		100	916208	F202 A S-100/0.5	2CSF202201R4900		0.200	1/6
	1000	40	823100	F202 A S-40/1	2CSF202201R5400		0.200	1/6
		63	823209	F202 A S-63/1	2CSF202201R5630		0.200	1/6
		100	916307	F202 A S-100/1	2CSF202201R5900		0.200	1/6

Number of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
4	100	40	823308	F204 A S-40/0.1	2CSF204201R2400		0.360	1/3
		63	823407	F204 A S-63/0.1	2CSF204201R2630		0.360	1/3
		100	919001	F204 A S-100/0.1	2CSF204201R2900		0.405	1/3
	300	40	784708	F204 A S-40/0.3	2CSF204201R3400		0.360	1/3
		63	784807	F204 A S-63/0.3	2CSF204201R3630		0.360	1/3
		100	919100	F204 A S-100/0.3	2CSF204201R3900		0.405	1/3
	500	125	968207	F204 A S-125/0.3	2CSF204201R3950		0.500	1
		40	784906	F204 A S-40/0.5	2CSF204201R4400		0.360	1/3
		63	785002	F204 A S-63/0.5	2CSF204201R4630		0.360	1/3
	1000	100	919209	F204 A S-100/0.5	2CSF204201R4900		0.405	1/3
		125	968405	F204 A S-125/0.5	2CSF204201R4950		0.500	1
		40	823506	F204 A S-40/1	2CSF204201R5400		0.360	1/3
		63	823605	F204 A S-63/1	2CSF204201R5630		0.360	1/3
		100	919308	F204 A S-100/1	2CSF204201R5900		0.405	1/3

RCCBs

F 200 110V series A  type



F202 110V



F204 110V

F 200 110V 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 contacts (with $I_{\Delta n}=30$ mA). This particular series of devices has the minimum operating voltage of test button of 110V and it is suitable for 230 V applications. This range is UL approved.

Application: residential, commercial, industrial.

Standard: IEC 61008-1; IEC 61008-2-1

Number of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
2	30	25	343332	F202 A-25/0.03 110V	2CSF202199R1250		0.200	1/6
		40	343233	F202 A-40/0.03 110V	2CSF202199R1400		0.200	1/6
		63	343134	F202 A-63/0.03 110V	2CSF202199R1630		0.200	1/6
		80	343035	F202 A-80/0.03 110V	2CSF202199R1800		0.200	1/6
		100	342939	F202 A-100/0.03 110V	2CSF202199R1100		0.200	1/6

Number of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
4	30	25	776734	F204 A-25/0.03 110V	2CSF204199R1250		0.360	1/3
		40	342830	F204 A-40/0.03 110V	2CSF204199R1400		0.360	1/3
		63	342731	F204 A-63/0.03 110V	2CSF204199R1630		0.360	1/3
		80	358435	F204 A-80/0.03 110V	2CSF204199R1800		0.405	1/3
		100	079132	F204 A-100/0.03 110V	2CSF204199R1100		0.405	1/3

RCCBs

F 200 series A  type for high frequency and railways applications



F202



F204

F 200 A type for high frequency (400 Hz)

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.

Advantages: increasing the frequency generates an increase of the magnetic reluctance of the toroidal transformer of standard RCCB and what follows is the value of the increasing operating residual current at 400 Hz reaching values 3 or more times higher than those of the residual current at 50 Hz. The RCCB F 200 400 Hz guarantees protection against indirect contacts and additional protection against direct contacts (with $I_{\Delta n}=30$ mA) considering that the operating residual current doesn't increase with the increase of the network frequency.

Application: commercial, industrial.

Standard: IEC/EN 61008-1; IEC/EN 61008-2-1

Marking: according to EN 61008-1; EN 61008-2-1

Number of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
4	30	25	968603	F204 A-25/0.03 400Hz	2CSF204197R1250		0.360	1/3
		40	968702	F204 A-40/0.03 400Hz	2CSF204197R1400		0.360	1/3

F200 A type 16 2/3 Hz

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

The RCCB F200 16 2/3 Hz can work at rated frequency of 16 2/3 Hz which is common in railways applications

Application: railways

Standard: IEC/EN 61008-1; IEC/EN 61008-2-1

Marking: according to EN 61008-1; EN 61008-2-1

Number of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
2	30	63	734536	F202 A-63/0.03 16-2/3Hz	2CSF202196R1630		0.200	1/6
	300	63	733638	F202 A-63/0.3 16-2/3Hz	2CSF202196R3630		0.200	1/6
	500	63	734437	F202 A-63/0.5 16-2/3Hz	2CSF202196R4630		0.200	1/6
Number of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
4	30	63	733539	F204 A-63/0.03 16-2/3Hz	2CSF204196R1630		0.360	1/3
	300	63	734338	F204 A-63/0.3 16-2/3Hz	2CSF204196R3630		0.360	1/3
	500	63	733430	F204 A-63/0.5 16-2/3Hz	2CSF204196R4630		0.360	1/3

RCCBs

F 200 series F   type



F202 F

F 200 series F type

Function: protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact ($I_{\Delta n}=30\text{ mA}$). Specifically suitable for the protection of lines supplying single phase inverters.

Application: residential, commercial, industrial.

Standard: IEC/EN 61008-1; IEC/EN 61008-2-1

Surge current resistance (wave 8/20)=3000 A

Marking: according to EN 61008-1; EN 61008-2-1

Number of poles	Rated residual current $I_{\Delta n}\text{ mA}$	Rated current $I_n\text{ A}$	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece	Pack unit
				Type code	Order code			
2	30	25	992738	F202 F-25/0.03	2CSF202325R1250		0.225	1/6
		40	992837	F202 F-40/0.03	2CSF202325R1400		0.225	1/6
		63	992936	F202 F-63/0.03	2CSF202325R1630		0.225	1/6
4	30	25	993032	F204 F-25/0.03	2CSF204325R1250		0.375	1/3
		40	993131	F204 F-40/0.03	2CSF204325R1400		0.375	1/3
		63	993230	F204 F-63/0.03	2CSF204325R1630		0.375	1/3

Notes



F 200 series - B

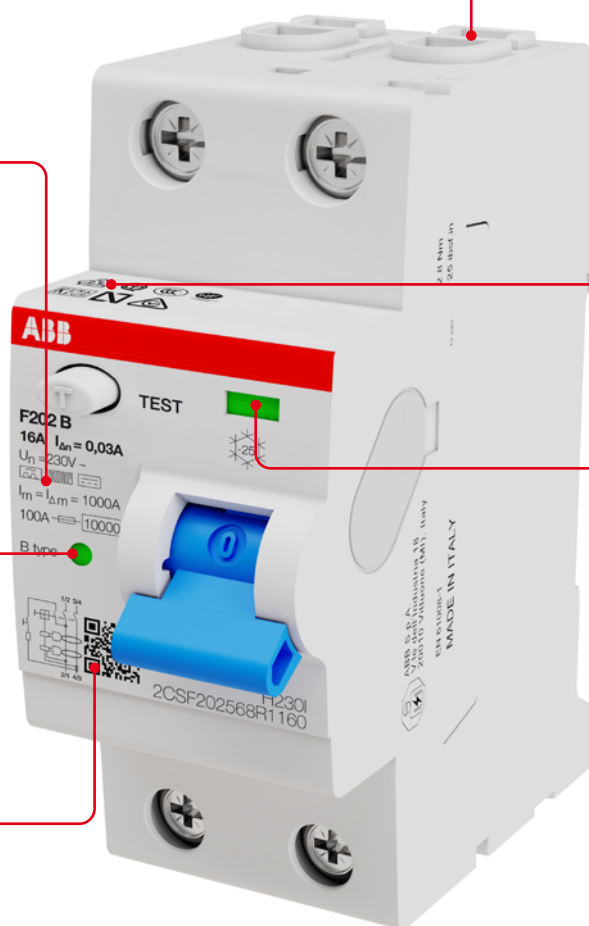
Details that make the difference

Type B residual current devices are marked according to EN 62423. The marking indicates 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°C to $+70^{\circ}\text{C}$ (for system up to 32 A). High immunity against unwanted tripping.

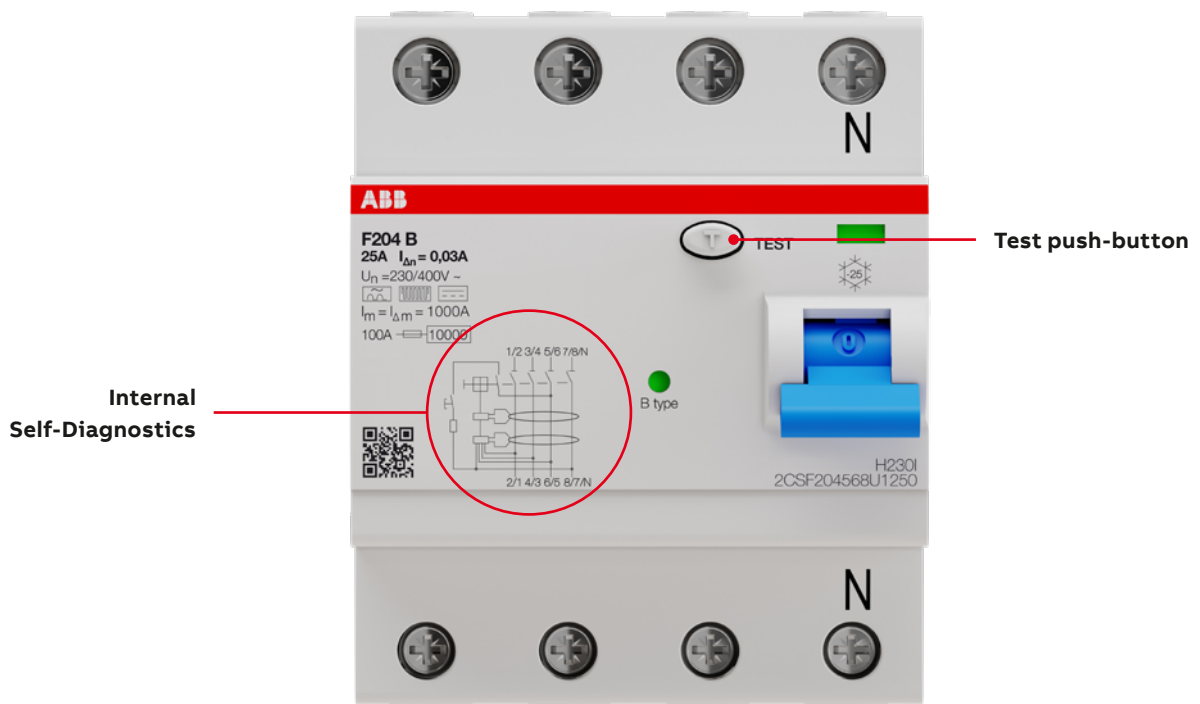
Self-diagnostics feature

Pushing the TEST button it is possible to check the proper functionality of the device regarding AC fault currents. Together with it, the F200 B range is introducing a 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



Standards			
Electrical features	Type (wave form of the earth leakage sensed)		
	Number of poles		
	Rated current I_n		A
	Rated sensitivity $I_{\Delta n}$		A
	Rated operational voltage U_e		V AC
	Rated Insulation voltage U_i acc. to IEC/EN 60664-1		V
	Operating voltage of circuit test U_t	IEC/EN	V
	Min. operating voltage for detecting Type A/AC residual currents		V AC
	Min. operating voltage for detecting Type B residual currents		V AC
	Rated frequency f		Hz
	Frequency range of residual current		kHz
	Rated conditional short-circuit current $I_{nc}=I_{\Delta}^3$	SCPD - fuse gG 100 A	kA
	Rated residual breaking capacity $I_{\Delta m}=I_m$		kA
	Grid distance		mm
	Rated impulse withstand voltage $U_{imp.}$ (1.2/50 μ s)		kV
	Dielectric test voltage at ind. freq. for 1 min.		kV
	Overvoltage category		
	Pollution degree		
	Surge current resistance (wave 8/20)		A
	Maximum electronic consumption		W
Mechanical features	Housing Type		
	Toggle Type		
	Contact position indicator (CPI)		
	Electrical endurance		cycles (OFF-ON-OFF)
	Mechanical endurance		cycles (OFF-ON-OFF)
	Protection degree	housing terminals	
	Environmental conditions (damp heat) acc. to IEC/EN 60068-2-30		°C/RH
	Resistance to Shock acc. to IEC 60068-2-27		
	Resistance to Vibrations acc. to IEC 60068-2-6		
	Ambient temperature	IEC	°C
Installation	Storage temperature		°C
	Terminal Type		
	Cross-section of conductors	IEC (top / bottom)	mm ²
	Cross-section of busbars	IEC (top / bottom)	mm ²
	Wire Stripping Length		
	Tightening torque	IEC	Nm
	Screwdriver		
	Mounting Type		
	Supply from		
	Dimensions (H × D × W)	2P	mm
Dimensions and weight	Weight	2P	g
	Combinable with:		
	auxiliary contact		
	signal contact/auxiliary switch		
	motor operating device		
Combination with auxiliary elements	shunt trip		
	undervoltage release		

¹ 500 mA devices

² Prior to connection of aluminium conductors ($\geq 4 \text{ mm}^2$) ensure that their contact points are cleaned, brushed and coated with grease

³ For S750-E 63A, S750DR-E/K 63A and other SCPD coordination values are available.

⁴ Constant temperature

F200 B Type		F200 B Type high ratings
F202 B 16-63 A	F204 B 25-63 A	F204 B 80-125 A
IEC/EN 61008-1, IEC/EN 61008-2-1, EN 62423		
B	B, B-S	B
2P	4P	4P
16, 25, 40, 63	25, 40, 63	80, 125
0,03 - 0,3	0,03 - 0,3 - 0,5	0,03 - 0,3 - 0,5
230	230/400	230/400
440	440 - 500 ¹	400
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)
0	0	0
50	50	50
50/60	50/60	50
2	2	100
10	10	10 (fuse gG 125 A)
1	1	125 A: 1,25 80 A: 1
35		
4	4	4
2,5	2,5	2,5
III, disconnector abilities	III, disconnector abilities	III, disconnector abilities
2		
3.000	3.000 - 5.000 (B S)	3.000 - 5.000 (B S)
0,3	1,2 (3,5 ¹)	
Insulation group I-II; RAL 7035		
Insulation group I-II; RAL 5015		
yes	yes	yes
10.000	10.000	2.000
20.000	20.000	5.000
IP40	IP40	IP40
IP20	IP20	IP20
28 cycles with 55°C/90-96% and 25°C/95-100%		
25g - 2 shocks - 13ms		
0.1 mm or 1 g - 20 cycles at 5...150...5 Hz		
-25...+70 (for system current ≤ 32 A*) -25...+65 for system current = 40 A* -25...+50 for system current = 63 A* For other system current see derating table		-25...+40
-40...+70	-40...+70	-40...+70
Failsafe bi-directional cylinder-lift terminal at top and bottom (shock protected) (cage for I _n > 63 A) ²		
25/25	25/25	50/50
10/10	10/10	
12 mm (for I _n =80-100 A 12,7 mm Top terminals and 14,9 mm Bottom terminals)		
2,8	2,8	3
Flat tip PZ2		
Any position on DIN rail EN 60715 (35 mm) by means of fast clip device		
Top/bottom		
85 × 69 × 35	85 × 69 × 70	85 × 69,5 × 72
220	380	500
yes	yes	no
yes	yes	yes
yes	yes	no
yes	yes	no
yes	yes	no

RCCBs

F 200 series - B    type



F202 B



F204 B

F200 B Type from 16 to 63 A

Number of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n 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
		25	341253	F202 B-25/0,03	2CSF202568R1250		0,220	1
		40	341352	F202 B-40/0,03	2CSF202568R1400		0,220	1
		63	341154	F202 B-63/0,03	2CSF202568R1630		0,220	1
	300	16	341451	F202 B-16/0,3	2CSF202568R3160		0,220	1
		25	341550	F202 B-25/0,3	2CSF202568R3250		0,220	1
		40	341659	F202 B-40/0,3	2CSF202568R3400		0,220	1
		63	341758	F202 B-63/0,3	2CSF202568R3630		0,220	1
4	30	25	341857	F204 B-25/0,03	2CSF204568R1250		0,380	1
		40	341956	F204 B-40/0,03	2CSF204568R1400		0,380	1
		63	342052	F204 B-63/0,03	2CSF204568R1630		0,380	1
	300	25	342151	F204 B-25/0,3	2CSF204568R3250		0,380	1
		40	342250	F204 B-40/0,3	2CSF204568R3400		0,380	1
		63	342359	F204 B-63/0,3	2CSF204568R3630		0,380	1
	300 S	40	342458	F204 B S-40/0,3	2CSF204868R3400		0,380	1
		63	342557	F204 B S-63/0,3	2CSF204868R3630		0,380	1
	500	40	776932	F204 B-40/0,5 ²	2CSF204592R4400		0,380	1
		63	347637	F204 B-63/0,5 ²	2CSF204592R4630		0,380	1
	500 S	40	357834	F204 B S-40/0,5 ²	2CSF204892R4400		0,380	1
		63	347538	F204 B S-63/0,5 ²	2CSF204892R4630		0,380	1
2	30	25	356356	F202 B-25/0,03 U	2CSF202568U1250		0,220	48
4	30	25	356158	F204 B-25/0,03 U	2CSF204568U1250		0,380	24
		40	355953	F204 B-40/0,03 U	2CSF204568U1400		0,380	24
		63	356059	F204 B-63/0,03 U	2CSF204568U1630		0,380	24
	300	63	356257	F204 B-63/0,3 U	2CSF204568U3630		0,380	24

F200 B Type high ratings

Number of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n 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 ²	2CSF204501R1800		0,460	1
		125	988700	F204B-125/0,03L ^{1,2}	2CSF204523R1950		0,460	1
	300	80	989103	F204B-80/0,3 ²	2CSF204501R3800		0,460	1
		125	989202	F204B-125/0,3L ^{1,2}	2CSF204523R3950		0,460	1
	300 S	125	989509	F204BS-125/0,3L ^{1,2}	2CSF204823R3950		0,460	1
	500	125	730439	F204B-125/0,5L ^{1,2}	2CSF204523R4950		0,460	1
	500 S	125	731238	F204BS-125/0,5L ^{1,2}	2CSF204823R4950		0,460	1



F204 B 80, 125 A

¹ Left-sided neutral pole

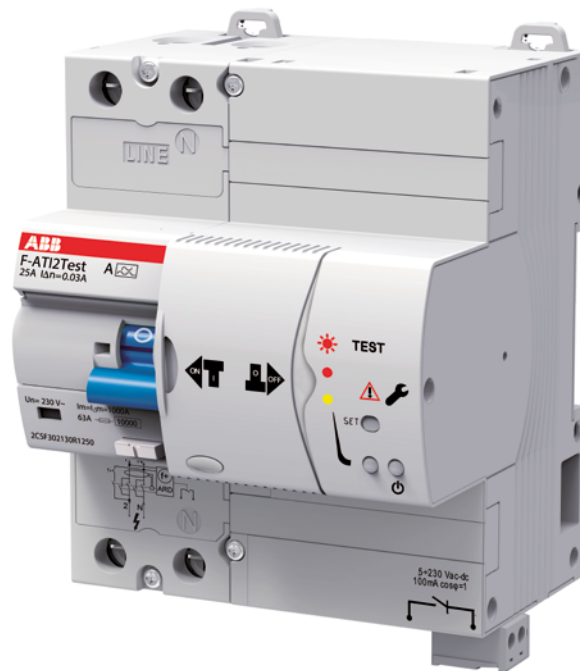
² No-self-diagnostics

Notes



RCCBs

F-ATI and F-ARI



F-ATI and F-ARI Test are RCCBs equipped with automatic test features. RCCBs are supposed to be checked every six months in order to make sure that the contacts are working properly and the device is able to trip in case of a leakage to earth. This swift operation affects the operational continuity of the circuits downstream and required a lot of man power. F-ATI and F-ARI test ranges push the periodic test to another level as this is run automatically and with no interruption at all of the service. Therefore, also the operations carried out by maintenance personnel are reduced to the very minimum. In addition to the automatic test, F-ARI Range features a reclosing unit that tries to reclose the RCCB as it trips. The reclosing operations are based on an insulation check to make sure that no permanent fault is present. The insulation check is done with a very low current with no danger for human at any time. Once the insulation check is positive the reclosing unit recloses the RCCB again. Moreover, the results coming from each and every circuit are collected at once thanks to ARBus interface.

- Saving: maintenance costs are cut down as the device runs automatically the test monthly in accordance with EN 61008 provisions.
- Uptime: while running the test, no disconnection of the supply occurs like in the traditional RCCB units.
- Time saving: a full array of maximum 99 devices can be commanded and read by remote by the means of the ARBus interface.
- Easy installation: the unit is factory fitted and it needs no coupling
- Quality: F-ATI Test range is approved by VDE while F-ARI Test is approved by IMQ CSV.
- Smart: complete monitoring over the application thanks to a fault check system and a programmable aux contact
- Reliability: Suitable for demanding environments up to 60 °C
- High immunity: RCCBs Type A APR offer the adequate solution according to the type of loads to be protected , the level of safety and the continuity of service.

RCCBs

F-ATI and F-ARI technical features

			F-ATI Test	F-ARI Test
Standards	EN61008-1 , VDE V 0664-120 (annex M)		EN61008-1 , CPT054, EN50557	
Electrical features	Distribution system		TN, TT, IT	
	Rated operational voltage U _e		230-400 V a.c. -15% ÷ 10%	
	Rated frequency f		50 Hz	
	Rated current I _n	A	25, 40, 63	
	Rated sensitivity IΔn	mA	30, 300	
	Type (wave form of the earth leakage sensed)		A AP-R	
	Number of poles		2P	
	Rated Insulation voltage U _i acc. to IEC/EN 60664-1	V d.c.	500	
	Minimum operating voltage of circuit test U _t	V a.c.	195	
	Rated non-operating resistance between live parts and earth R _{do}		8 kΩ (30 mA), 2,5 kΩ(300 mA)	
	Rated operating resistance between live parts and earth R _d		16 kΩ (30 mA), 5 kΩ (300 mA)	
	Rated conditional short circuit current I _{nc} =IΔ		10 kA (SCPD – gL fuse 63 A for I _n 25, 40 A; gL fuse 80 A for I _n 63 A)	
	Dielectric test voltage at ind. freq. for 1 min	kV	2,5	
	Rated impulse withstand voltage U _{imp.} (1,2/50)	kV	4	
	Power loss		2P: 2.2 W (25 A); 5.4 W (40 A); 6.2 W (63 A) 4P: 3.5 W (25 A); 6 W (40 A); 12 W (63 A)	
	Power consumption during operation		VA	41
Other features	Test cycle time	s	< 7	
	Reclosing time	s	< 10 (6 s check, 3 s reclosing)	
Mechanical features	Protecion degree acc. To EN 60529		IP20 (terminals), IP40 (housing)	
	Contact position indication (CPI)		yes	
	Mechanical life		4000	
Installation	Tightening torque	Nm	2	
	Ambient temperature (with daily average ≤ +35 °C)	°C	-25...+60 °C	
	Storage temperature	°C	-40...+70 °C	
Auxiliary contact	Type	NO-NC-NO+pulse (100 ms)		
	Operating features	5 ÷ 230 V a.c./d.c. I _{max} 100 mA		
	Cross-section of conductors	mm²	2,5	
	Tightening torque	Nm	0,4	
Dimensions	DIN modules	5		
	Weight	g	550	
			ARBus	
Electrical features	Rated operational voltage U _e	V	230 V a.c. -15% ÷ 10%	
	Rated frequency f	Hz	50	
	Rated Insulation voltage U _i acc. to IEC/EN 60664-1	V	500 V d.c.	
	Rated conditional short circuit current I _{nc} =IΔ	kA	10 kA (SCPD – gL fuse 63 A for I _n 25, 40 A; gL fuse 80 A for I _n 63 A)	
	Rated impulse withstand voltage U _{imp.} (1,2/50)	kV	4	
	Power consumption	W	1	
Installation	Cross-section of conductors	mm2	2,5	
	Tightening torque	Nm	0,4	
	Ambient temperature (with daily average ≤ +35 °C)	°C	-25...+60 °C	
	Storage temperature	°C	-40...+70 °C	
Communication	Protocol	Modbus RS485		
	Baud rate	38400		
	Addresses	1...99		
Dimensions and weight	DIN modules	1		
	Weight	g	180	

RCCBs

F-ATI and F-ARI



F-ATI 2 Test



F-ARI 4 Test

F-ATI

Number of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece	Pack unit
				Type code	Order code	kg	pc.	
1P+N	30	25	288855	F-ATI2Test A-25/0.03	2CSF302130R1250	0.550	5	
		40	288954	F-ATI2Test A-40/0.03	2CSF302130R1400	0.550	5	
		63	289050	F-ATI2Test A-63/0.03	2CSF302130R1630	0.550	5	
3P+N	30	25	289159	F-ATI4Test A-25/0.03	2CSF304130R1250	0.900	7	
		40	289258	F-ATI4Test A-40/0.03	2CSF304130R1400	0.900	7	
		63	289357	F-ATI4Test A-63/0.03	2CSF304130R1630	0.900	7	
	300	25	289456	F-ATI4Test A-25/0.3	2CSF304130R3250	0.900	7	
		40	289555	F-ATI4Test A-40/0.3	2CSF304130R3400	0.900	7	
		63	289654	F-ATI4Test A-63/0.3	2CSF304130R3630	0.900	7	

F-ARI Test

Number of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece	Pack unit
				Type code	Order code	kg	pc.	
1P+N	30	25	289753	F-ARI2Test A-25/0.03	2CSF302131R1250	0.550	5	
		40	289852	F-ARI2Test A-40/0.03	2CSF302131R1400	0.550	5	
		63	293453	F-ARI2Test A-63/0.03	2CSF302131R1630	0.550	5	
3P+N	30	25	289951	F-ARI4Test A-25/0.03	2CSF304131R1250	0.900	7	
		40	290056	F-ARI4Test A-40/0.03	2CSF304131R1400	0.900	7	
		63	290155	F-ARI4Test A-63/0.03	2CSF304131R1630	0.900	7	
	300	25	290254	F-ARI4Test A-25/0.3	2CSF304131R3250	0.900	7	
		40	290353	F-ARI4Test A-40/0.3	2CSF304131R3400	0.900	7	
		63	290452	F-ARI4Test A-63/0.3	2CSF304131R3630	0.900	7	

RCCBs

F-ATI and F-ARI



ARBus

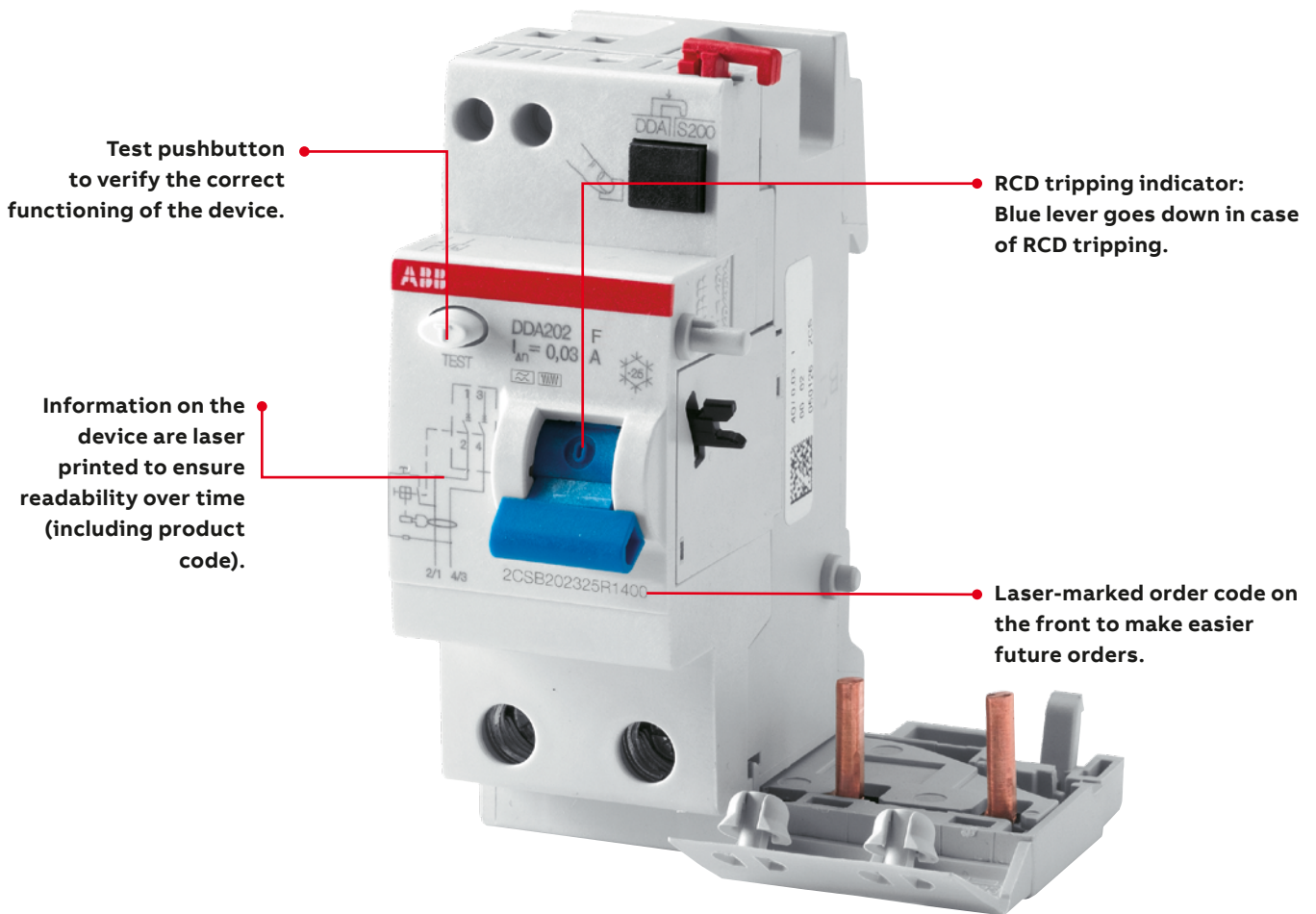
Gamma ARBus

	Bbn	Order details		Price	Weight	Pack
	8012542			1 piece	1 piece	unit
	EAN	Type code	Order code		kg	pc.
ARBus	293354	ARBus	2CSF300130R1989		0.180	1

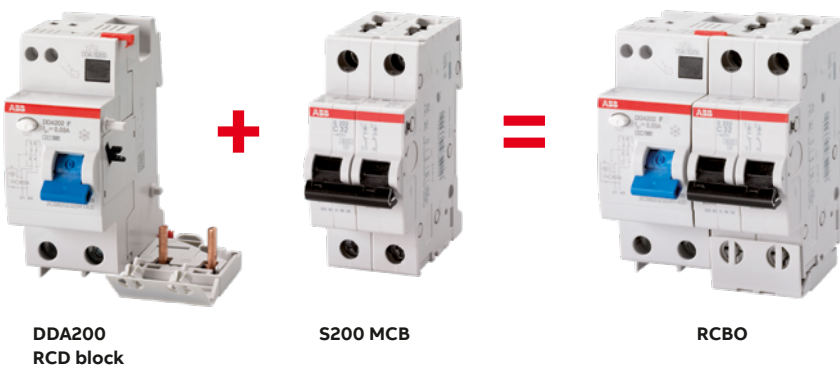
DDA 200

The details make the difference

A range designed to ensure efficiency and protection



DDA200 RCD block mounted with S200 MCB.





Flexibility

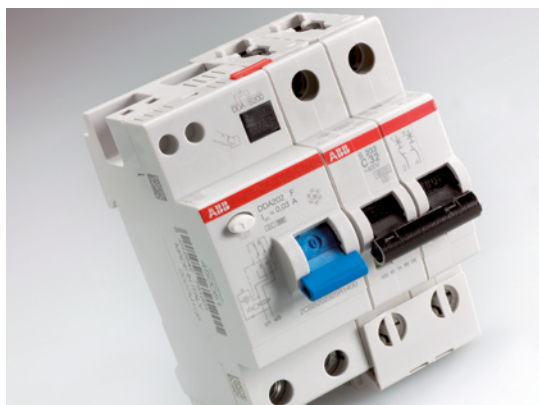
DDA200 is suitable for mounting with S200 extensive range of MCBs, covering applications up to 63A with breaking capacity up to 25kA.



RCD block DDA200 can be used in ambient conditions where the temperature of the surrounding atmosphere has values between -25 °C (snowflake laser printed on the front of the device) and +55 °C.



Possibility to connect a remote test button for 63A versions.



No misuse

Mistakes in assembling the MCB on the DDA200 are avoided thanks to a mechanical key that avoids mounting an MCB with higher rated current than the RCD block.

RCD-blocks

DDA 200 technical features



DDA 200

Standards

Type (wave form of the earth leakage sensed)

Rated current I_n [A]

Number of poles

Rated operational voltage U_e 2P [V]

3P

4P

Rated Insulation voltage U_i acc. to IEC/EN 60664-1 [V]

Pollution degree

Operating voltage of circuit test U_t 2P [V]

3P

4P

Rated frequency f [Hz]

Rated breaking capacity according to IEC EN 61009 [A]

Rated breaking capacity according to IEC EN 60947-2 [A]

Rated residual breaking capacity $I_{\Delta n}$ [kA]

Rated impulse withstand voltage U_{imp} (1.2/50 μ s) [kV]

Dielectric test voltage at ind. freq. for 1 min. [kV]

Surge current resistance (wave 8/20) [A]

Rated sensitivity $I_{\Delta n}$ [A]

Housing Type

Toggle Type

Electrical endurance cycles (OFF-ON-OFF)

Mechanical endurance cycles (OFF-ON-OFF)

Protection degree housing terminals

Environmental conditions (damp heat) acc. to IEC/EN 60068-2-30 [°C/RH]

Resistance to Shock acc. to IEC 60068-2-27

Resistance to Vibrations acc. to IEC 60068-2-6

Ambient temperature (with daily average $\leq +35$ °C) [°C]

Storage temperature [°C]

Terminal type 2P

3P/4P $I_n=25$ and 40 A

3P/4P $I_n=63$ A

Cross-section of conductors 2P [mm²]

3P/4P $I_n=25$ and 40 A

3P/4P $I_n=63$ A [mm²]

Tightening torque 2P [Nm]

3P/4P $I_n=25$ and 40 A

3P/4P $I_n=63$ A [Nm]

Wire Stripping Length

Mounting Type

Mounting position

Dimensions 2P [mm]

H x P x L 3P/4P $I_n=25$ and 40 A [mm]

3P/4P $I_n=63$ A [mm]

Weight 2P [g]

3P/4P $I_n=25$ and 40 A

3P/4P $I_n=63$ A [g]

Combinable with

S 200L

S 200

S 200M

S 200 P

① All RCD-blocks DDA 200 with rated current 63 A are provided with two additional terminals for remote tripping.

② DDA200 A AE is provided with two additional terminals for remote release in positive safety.

A remote control circuit should be connected to those terminals where circuit breakers or push buttons with normally closed contacts should be inserted.

③ DDA 200 dimensions has been established without considering the bottom cover. For further details please refer to dimensions shown on chapter 28.

RCD-blocks

DDA 200 technical features

DDA 200 AC	DDA 200 A	DDA 200 A AP-R	DDA 200 A AE	DDA 200 A S	DDA 200 F	DDA 200 B
IEC/EN 61009-1 Ann. G; IEC/EN 61009-2-1					IEC/EN 61009 App.G, IEC/EN 62423 2 nd ed	IEC/EN 61009-1 Ann. G; IEC/EN 61009-2-1, IEC EN 62423
AC	A	A	A	A	F	B
25, 40, 63 ①		25, 40, 63 ①	63 ②	63 ①	40, 63 A1 (to mount with MCB with In = 0,5...63A)	25-40-63
2P, 3P, 4P					2P	2P, 3P, 4P
230 (400 for special execution @400 V)			230	230	230	230
230/400			400	400	-	400
230/400			230/400	230/400	-	230/400
500						
2						
110-254 for special execution @110V; 195-254 (170-254 for 30 mA; 400 for special execution @400 V)			184-264	195-254 (170-254 for 30 mA)	254/170	195-254 (170-254 for 30 mA)
195-440 (300-440 for 30 mA; 110-254 for special execution @110 V)			310-440	195-440 (300-440 for 30 mA)	-	310-440 (300-440 for 30 mA)
195-440 (300-440 for 30 mA; 110-254 for special execution @110 V)			184-264	195-440 (300-440 for 30 mA)	-	195-254 (300-440 for 30 mA)
50	50/60	50/60	50/60	50/60	50/60	50/60
same of the coupled MCB						
same of the coupled MCB						
same of the coupled MCB						
4						
2,5						
NA		3000	NA	5000	3000	3000 (5000 for selective types)
0.01-0.03-0.1-0.3-0.5-1		0.03	0.03-0.3-0.5-1	0.1-0.3-0.5-1	-	0.03 - 0.3 - 0.5
RAL 7035						
RAL 7035						
10000						
20000						
IP40						
IP20						
28 cycles with 55°C/90-96% and 25°C/95-100%						
25g - 2 shocks - 13ms						
0.1 mm or 1 g - 20 cycles at 5...150...5 Hz						
-25...+55						
-40...+70						
bi-directional cylinder-lift					Top: failsafe bi-directional cylinder-lift terminal (shock protected) Bottom: failsafe cylinder-lift terminal (shock protected)	bi-directional cylinder-lift
cage type					-	-
bi-directional cylinder-lift					-	bi-directional cylinder-lift
(rigid or flexible) up to 25						
(rigid or flexible) up to 16					-	-
(rigid or flexible) up to 25					-	(rigid or flexible) up to 25
2.8						
1.2					-	-
2.8					-	2.8
12,5 mm (10,2 mm for the additional terminals for remote tripping, only for In=63A)						
on DIN rail EN 60715 (35 mm) by means of fast clip device						
Any						
85 x 69 x 35					85 x 69 x 70	85 x 69 x 70
85 x 69 x 35					-	85 x 69 x 70
85 x 69 x 70					-	85 x 69 x 70
175					180	350
175					-	375
325					-	395
yes					-	yes
yes					-	yes
yes					-	yes
yes					-	yes

RCD-blocks

DDA 200 series AC  type



DDA 202



DDA 203

DDA 200 AC type

Function: RCD-block for assembly on site with MCBs S 200 series. Protection against the effects of sinusoidal alternating earth fault currents; protection against indirect contacts and additional protection against direct contacts (with $I_{\Delta n}=30$ mA).

Application: residential, commercial, industrial.

Standard: IEC/EN 61009-1 Ann. G; IEC/EN 61009-2-1

Number of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece	Pack unit
				Type code	Order code		kg	pc.
2	10	25	791003	DDA202 AC-25/0.01	2CSB202001R0250		0.180	1
		30	791102	DDA202 AC-25/0.03	2CSB202001R1250		0.180	1
		40	791201	DDA202 AC-40/0.03	2CSB202001R1400		0.180	1
		63 ②	791300	DDA202 AC-63/0.03	2CSB202001R1630		0.180	1
	100	25	791409	DDA202 AC-25/0.1	2CSB202001R2250		0.180	1
		40	791508	DDA202 AC-40/0.1	2CSB202001R2400		0.180	1
		63 ②	791607	DDA202 AC-63/0.1	2CSB202001R2630		0.180	1
	300	25	791706	DDA202 AC-25/0.3	2CSB202001R3250		0.180	1
		40	791805	DDA202 AC-40/0.3	2CSB202001R3400		0.180	1
		63 ②	791904	DDA202 AC-63/0.3	2CSB202001R3630		0.180	1
	500	25	792000	DDA202 AC-25/0.5	2CSB202001R4250		0.180	1
		40	792109	DDA202 AC-40/0.5	2CSB202001R4400		0.180	1
		63 ②	792208	DDA202 AC-63/0.5	2CSB202001R4630		0.180	1
	1000	25	808305	DDA202 AC-25/1	2CSB202001R5250		0.180	1
		40	808404	DDA202 AC-40/1	2CSB202001R5400		0.180	1
		63 ②	792307	DDA202 AC-63/1	2CSB202001R5630		0.180	1
	2000	63	792406	DDA202 AC-63/2	2CSB202001R6630		0.180	1

Number of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece	Pack unit
				Type code	Order code		kg	pc.
3	30	25	792505	DDA203 AC-25/0.03	2CSB203001R1250		0.220	1
		40	792604	DDA203 AC-40/0.03	2CSB203001R1400		0.220	1
		63 ②	792703	DDA203 AC-63/0.03	2CSB203001R1630		0.260	1
	100	25	792802	DDA203 AC-25/0.1	2CSB203001R2250		0.220	1
		40	792901	DDA203 AC-40/0.1	2CSB203001R2400		0.220	1
		63 ②	793007	DDA203 AC-63/0.1	2CSB203001R2630		0.260	1
	300	25	793106	DDA203 AC-25/0.3	2CSB203001R3250		0.220	1
		40	793205	DDA203 AC-40/0.3	2CSB203001R3400		0.220	1
		63 ②	793304	DDA203 AC-63/0.3	2CSB203001R3630		0.260	1
	500	25	793403	DDA203 AC-25/0.5	2CSB203001R4250		0.220	1
		40	793502	DDA203 AC-40/0.5	2CSB203001R4400		0.220	1
		63 ②	793601	DDA203 AC-63/0.5	2CSB203001R4630		0.260	1
	1000	25	808503	DDA203 AC-25/1	2CSB203001R5250		0.220	1
		40	808602	DDA203 AC-40/1	2CSB203001R5400		0.220	1
		63 ①②	793700	DDA203 AC-63/1	2CSB203001R5630		0.260	1
	2000	63	793809	DDA203 AC-63/2	2CSB203001R6630		0.260	1

① version with test button working at 110VAC - 254VAC is available. For selection tables refer to special version paragraph.

② provided with additional terminals for remote tripping.

RCD-blocks

DDA 200 series AC  type



DDA 204

Number of poles	Rated residual current I _{Δn} mA	Rated current I _n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
4	30	25	793908	DDA204 AC-25/0.03	2CSB204001R1250		0.260	1
		40	794004	DDA204 AC-40/0.03	2CSB204001R1400		0.260	1
		63 ①②	794103	DDA204 AC-63/0.03	2CSB204001R1630		0.305	1
	100	25	794202	DDA204 AC-25/0.1	2CSB204001R2250		0.260	1
		40	794301	DDA204 AC-40/0.1	2CSB204001R2400		0.260	1
		63 ②	794400	DDA204 AC-63/0.1	2CSB204001R2630		0.305	1
	300	25	794509	DDA204 AC-25/0.3	2CSB204001R3250		0.260	1
		40	794608	DDA204 AC-40/0.3	2CSB204001R3400		0.260	1
		63 ②	794707	DDA204 AC-63/0.3	2CSB204001R3630		0.305	1
	500	25	794806	DDA204 AC-25/0.5	2CSB204001R4250		0.260	1
		40	794905	DDA204 AC-40/0.5	2CSB204001R4400		0.260	1
		63 ②	795001	DDA204 AC-63/0.5	2CSB204001R4630		0.305	1
	1000	25	808701	DDA204 AC-25/1	2CSB204001R5250		0.260	1
		40	808800	DDA204 AC-40/1	2CSB204001R5400		0.260	1
		63 ②	795100	DDA204 AC-63/1	2CSB204001R5630		0.305	1
	2000	63	795209	DDA204 AC-63/2	2CSB204001R6630		0.305	1

① version with test button working at 110VAC - 254VAC is available. For selection tables refer to special version paragraph.

② provided with additional terminals for remote tripping.

RCD-blocks

DDA 200 series A  type



DDA 202



DDA 203

DDA 200 A type

Function: RCD-block for assembly on site with MCBs S 200 series. Protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contacts and additional protection against direct contacts (with $I_{\Delta n}=30$ mA).

Application: residential, commercial, industrial.

Standard: IEC/EN 61009-1 Ann. G; IEC/EN 61009-2-1

Number of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
2	10	25	795308	DDA202 A-25/0.01	2CSB202101R0250		0.180	1
		30	795407	DDA202 A-25/0.03	2CSB202101R1250		0.180	1
	40	25	795506	DDA202 A-40/0.03	2CSB202101R1400		0.180	1
		63 ②	795605	DDA202 A-63/0.03	2CSB202101R1630		0.180	1
	100	25	795704	DDA202 A-25/0.1	2CSB202101R2250		0.180	1
		40	795803	DDA202 A-40/0.1	2CSB202101R2400		0.180	1
		63 ②	795902	DDA202 A-63/0.1	2CSB202101R2630		0.180	1
	300	25	796008	DDA202 A-25/0.3	2CSB202101R3250		0.180	1
		40	796107	DDA202 A-40/0.3	2CSB202101R3400		0.180	1
		63 ②	796206	DDA202 A-63/0.3	2CSB202101R3630		0.180	1
	500	25	796305	DDA202 A-25/0.5	2CSB202101R4250		0.180	1
		40	796404	DDA202 A-40/0.5	2CSB202101R4400		0.180	1
		63 ②	796503	DDA202 A-63/0.5	2CSB202101R4630		0.180	1
1000	25	25	808909	DDA202 A-25/1	2CSB202101R5250		0.180	1
		40	809005	DDA202 A-40/1	2CSB202101R5400		0.180	1
		63 ②	796602	DDA202 A-63/1	2CSB202101R5630		0.180	1

Number of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
3	30	25	796701	DDA203 A-25/0.03	2CSB203101R1250		0.220	1
		40 ①	796800	DDA203 A-40/0.03	2CSB203101R1400		0.220	1
		63 ①②	796909	DDA203 A-63/0.03	2CSB203101R1630		0.260	1
	100	25	797005	DDA203 A-25/0.1	2CSB203101R2250		0.220	1
		40	797104	DDA203 A-40/0.1	2CSB203101R2400		0.220	1
		63 ②	797203	DDA203 A-63/0.1	2CSB203101R2630		0.260	1
	300	25	797302	DDA203 A-25/0.3	2CSB203101R3250		0.220	1
		40	797401	DDA203 A-40/0.3	2CSB203101R3400		0.220	1
		63 ②	797500	DDA203 A-63/0.3	2CSB203101R3630		0.260	1
	500	25	797609	DDA203 A-25/0.5	2CSB203101R4250		0.220	1
		40	797708	DDA203 A-40/0.5	2CSB203101R4400		0.220	1
		63 ②	797807	DDA203 A-63/0.5	2CSB203101R4630		0.260	1
1000	25	25	809104	DDA203 A-25/1	2CSB203101R5250		0.220	1
		40	809203	DDA203 A-40/1	2CSB203101R5400		0.220	1
		63 ②	797906	DDA203 A-63/1	2CSB203101R5630		0.260	1

① version with test button working at 110VAC - 254VAC is available. For selection tables refer to special version paragraph.

② provided with additional terminals for remote tripping.

RCD-blocks

DDA 200 series A  type



DDA 204

Number of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
4	30	25	798002	DDA204 A-25/0.03	2CSB204101R1250		0.260	1
		40	798101	DDA204 A-40/0.03	2CSB204101R1400		0.260	1
		63 ①②	798200	DDA204 A-63/0.03	2CSB204101R1630		0.305	1
	100	25	798309	DDA204 A-25/0.1	2CSB204101R2250		0.260	1
		40	798408	DDA204 A-40/0.1	2CSB204101R2400		0.260	1
		63 ②	798507	DDA204 A-63/0.1	2CSB204101R2630		0.305	1
	300	25	798606	DDA204 A-25/0.3	2CSB204101R3250		0.260	1
		40	798705	DDA204 A-40/0.3	2CSB204101R3400		0.260	1
		63 ②	798804	DDA204 A-63/0.3	2CSB204101R3630		0.305	1
	500	25	798903	DDA204 A-25/0.5	2CSB204101R4250		0.260	1
		40	799009	DDA204 A-40/0.5	2CSB204101R4400		0.260	1
		63 ②	799108	DDA204 A-63/0.5	2CSB204101R4630		0.305	1
	1000	25	809302	DDA204 A-25/1	2CSB204101R5250		0.260	1
		40	809401	DDA204 A-40/1	2CSB204101R5400		0.260	1
		63 ②	799207	DDA204 A-63/1	2CSB204101R5630		0.305	1

① version with test button working at 110VAC - 254VAC is available. For selection tables refer to special version paragraph.

② provided with additional terminals for remote tripping.

RCD-blocks

DDA 200 special version 110 V and 400 V



DDA 202



DDA 203



DDA 204

DDA 200 special version 110 V and 400 V

Function: special version of RCD-blocks to assembly on site with MCBs S 200 series. Special version are available with protection against the effects of sinusoidal alternating and/or direct pulsating earth fault currents, protection against indirect contacts and additional protection against direct contacts (with $I_{\Delta n}=30$ mA).

DDA200 110 V is a particular RCD-block with voltage range for test button $U_t = 110-254$ V.

RCD-blocks work for naval applications where the IT system is typically used and the voltage between the phase and the neutral conductor is 115 - 125 V. DDA200 110 V ($U_t = 110-254$ V) are suitable for naval applications.

Special version is also available for 400 V in the two poles version working in two-phase industrial systems where voltage between phases is 400 V.

Applications: naval, industrial.

Standards: IEC 61009-1 Ann. G; IEC 61009-2-1

110 V version

AC type

Number of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
4	30	63 ①	929901	DDA 204 AC-63/0.03 110V	2CSB204099R1630		0.350	1

A type

Number of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
2	30	25	079033	DDA202 A-25/0.03 110V	2CSB202199R1250		0.180	1
		40	078937	DDA202 A-40/0.03 110V	2CSB202199R1400		0.180	1
		63 ①	078838	DDA202 A-63/0.03 110V	2CSB202199R1630		0.180	1
3	30	40	811701	DDA 203 A-40/0.03 110V	2CSB203199R1400		0.350	1
		63 ①	811800	DDA 203 A-63/0.03 110V	2CSB203199R1630		0.350	1
4	30	63 ①	812104	DDA 204 A-63/0.03 110V	2CSB204199R1630		0.350	1

400 V version

A type

Number of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
2	30	63 ①	954934	DDA 202 A-63/0.03 400V	2CSB202192R1630		0.200	1

① provided with additional terminals for remote tripping.

RCD-blocks

DDA 200 series A  type, AP-R (high immunity)



DDA 202



DDA 203



DDA 204

DDA 200 AP-R, A type

Function: RCD-block for assembly on site with MCBs S 200 series. Protection against the effects of sinusoidal alternating and direct pulsating earth fault currents, providing the best compromise between safety and continuity in the service thanks to the resistance to unwanted trippings; protection against indirect contacts and additional protection against direct contacts (with $I_{\Delta n}=30$ mA).

Application: residential, commercial, industrial.

Standard: IEC/EN 61009-1 Ann. G; IEC/EN 61009-2-1

Surge current resistance (wave 8/20)=3000 A

Number of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece	Pack unit
				Type code	Order code		kg	pc.
2	30	25	801108	DDA202 A-25/0.03 AP-R	2CSB202401R1250		0.180	1
		40	801207	DDA202 A-40/0.03 AP-R	2CSB202401R1400		0.180	1
		63 ①	801306	DDA202 A-63/0.03 AP-R	2CSB202401R1630		0.180	1
	300	63	961932	DDA202 A-63/0,3 AP-R	2CSB202401R3630		0,260	1

Number of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece	Pack unit
				Type code	Order code		kg	pc.
3	30	25	811008	DDA203 A-25/0.03 AP-R	2CSB203401R1250		0.220	1
		40	811107	DDA203 A-40/0.03 AP-R	2CSB203401R1400		0.220	1
		63 ①	811206	DDA203 A-63/0.03 AP-R	2CSB203401R1630		0.260	1

Number of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece	Pack unit
				Type code	Order code		kg	pc.
4	30	25	801405	DDA204 A-25/0.03 AP-R	2CSB204401R1250		0.260	1
		40	801504	DDA204 A-40/0.03 AP-R	2CSB204401R1400		0.260	1
		63 ①	801603	DDA204 A-63/0.03 AP-R	2CSB204401R1630		0.305	1

① provided with additional terminals for remote tripping

RCD-blocks

DDA 200 series A  type, AE (for emergency stop)



DDA 202



DDA 203



DDA 204

DDA 200 AE, A type

Function: RCD-block for assembly on site with MCBs S 200 series. Protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contacts and additional protection against direct contacts (with $I_n=30$ mA).

The RCD-block is provided with two additional terminals to be used in emergency circuits for remote opening in positive safety. A remote control circuit should be connected to those terminals where NC push buttons should be inserted in series.

ATTENTION!

It's allowed to use multiple NC buttons to control one DDA200 AE but it's not permitted to use one button in a control circuit for more RCD-blocks DDA200 AE. DDA200 AE must be supplied by the top side.

Application: commercial, industrial.

Standard: IEC/EN 61009-1 Ann. G; IEC/EN 61009-2-1

Number of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece	Pack unit
				Type code	Order code		kg	pc.
2	30	63	801702	DDA202 A-63/0.03 AE	2CSB202701R1630		0.180	1
	300	63	801801	DDA202 A-63/0.3 AE	2CSB202701R3630		0.180	1
	500	63	801900	DDA202 A-63/0.5 AE	2CSB202701R4630		0.180	1
	1000	63	802006	DDA202 A-63/1 AE	2CSB202701R5630		0.180	1

Number of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece	Pack unit
				Type code	Order code		kg	pc.
3	30	63	802105	DDA203 A-63/0.03 AE	2CSB203701R1630		0.260	1
	300	63	802204	DDA203 A-63/0.3 AE	2CSB203701R3630		0.260	1
	500	63	802303	DDA203 A-63/0.5 AE	2CSB203701R4630		0.260	1
	1000	63	802402	DDA203 A-63/1 AE	2CSB203701R5630		0.260	1

Number of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece	Pack unit
				Type code	Order code		kg	pc.
4	30	63	802501	DDA204 A-63/0.03 AE	2CSB204701R1630		0.305	1
	300	63	802600	DDA204 A-63/0.3 AE	2CSB204701R3630		0.305	1
	500	63	802709	DDA204 A-63/0.5 AE	2CSB204701R4630		0.305	1
	1000	63	802808	DDA204 A-63/1 AE	2CSB204701R5630		0.305	1

RCD-blocks

DDA 200 series A  type, selective



DDA 202



DDA 203



DDA 204

DDA 200 A selective type

Function: RCD-block for assembly on site with MCBs S 200 series. 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 (for more information about selectivity see the technical guide).

Application: commercial, industrial.

Standard: IEC/EN 61009-1 Ann. G; IEC/EN 61009-2-1

Surge current resistance (wave 8/20)=5000 A

Number of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
2	100	63	799306	DDA202 A S-63/0.1	2CSB202201R2630		0.180	1
	300	63	799405	DDA202 A S-63/0.3	2CSB202201R3630		0.180	1
	500	63	799504	DDA202 A S-63/0.5	2CSB202201R4630		0.180	1
	1000	63	799603	DDA202 A S-63/1	2CSB202201R5630		0.180	1

Number of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
3	100	63	799702	DDA203 A S-63/0.1	2CSB203201R2630		0.260	1
	300	63	799801	DDA203 A S-63/0.3	2CSB203201R3630		0.260	1
	500	63	799900	DDA203 A S-63/0.5	2CSB203201R4630		0.260	1
	1000	63	800002	DDA203 A S-63/1	2CSB203201R5630		0.260	1

Number of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
4	100	63	800101	DDA204 A S-63/0.1	2CSB204201R2630		0.305	1
	300	63	800200	DDA204 A S-63/0.3	2CSB204201R3630		0.305	1
	500	63	800309	DDA204 A S-63/0.5	2CSB204201R4630		0.305	1
	1000	63	800408	DDA204 A S-63/1	2CSB204201R5630		0.305	1

Attention: All DDA 200 A S are provided with additional terminals for remote tripping

RCD-blocks

DDA 200 series F   type



DDA 202

DDA 200 series F type

Function: RCD-block for assembly on site with MCBs S 200 series. Protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contacts and additional protection against direct contacts (with $I_{\Delta n}=30$ mA). Specifically suitable for the protection of lines supplying single phase inverters.

Application: residential, commercial, industrial.

Standard: IEC/EN 61009-1 Ann. G; IEC/EN 61009-2-1

Number of poles	Rated residual current $I_{\Delta n}$ mA	Rated current In A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece	Pack unit
				Type code	Order code		kg	pc.
2	30	40	801221	DDA 202 F-40/0.03	2CSB202325R1400		0.180	1
		63	801122	DDA 202 F-63/0.03	2CSB202325R1630		0.180	1

Notes



RCD-blocks

DDA 200 series B    type



DDA 202

DDA 200 type B for continuous type fault currents

RCD-blocks type B are also sensitive to continuous or mainly continuous (continuous with weak ondulation) current pulsating earth fault currents. They are also sensitive to alternate sinusoidal and direct pulsating earth fault currents as with type A circuit breakers.

They satisfy the requirements of type A devices and thus the requirements for type AC devices which can be considered an extension. For this reason the differential blocks type B are sometimes referred as “universal type”, as sensitive to “all” kind of residual current shape.

DDA 200 type B can be coupled with all the S 200 series MCBs.

They are used for protection in installations with electronic equipments according to EN 50178.

Applications: tertiary and industrial.

Standards: IEC/EN 61009-1 Ann. G; IEC/EN 61009-2-1; IEC 62423 ed.2

Surge current resistance (8/20 wave): 3000 A



DDA 203

Number of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece	Pack unit
				Type code	Order code		kg	pc.
2	30	25	748021	DDA202 B APR-25/0,03	2CSB202592R1250		0.350	1
		40	515128	DDA202 B APR-40/0,03	2CSB202592R1400		0.350	1
		63	610922	DDA202 B APR-63/0,03	2CSB202592R1630		0.350	1
	300	25	733324	DDA202 B APR-25/0,3	2CSB202592R3250		0.350	1
		63	732426	DDA202 B APR-63/0,3	2CSB202592R3630		0.350	1



DDA 204

Number of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece	Pack unit
				Type code	Order code		kg	pc.
3	30	63	733225	DDA203 B APR-63/0,03	2CSB203592R1630		0.375	1
	300	63	732327	DDA203 B APR-63/0,3	2CSB203592R3630		0.375	1

Number of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece	Pack unit
				Type code	Order code		kg	pc.
4	30	25	732228	DDA204 B APR-25/0,03	2CSB204592R1250		0.395	1
		40	020325	DDA204 B APR-40/0,03	2CSB204592R1400		0.395	1
		63	733027	DDA204 B APR-63/0,03	2CSB204592R1630		0.395	1
	300	25	732129	DDA204 B APR-25/0,3	2CSB204592R3250		0.395	1
		63	732921	DDA204 B APR-63/0,3	2CSB204592R3630		0.395	1
	500	63	732020	DDA204 B APR-63/0,5	2CSB204592R4630		0.395	1

RCD-blocks

DDA 200 series B    type



DDA 203



DDA 204

DDA 200 type B for selective continuous type fault currents

Function: protection against the effects of alternate sinusoidal, direct pulsating, continuous current and continuous current pulsating earth fault currents with an intentional trip delay that permits selectivity with instantaneous type devices placed downstream (for further information on selectivity, see Chapter 3 of Electrical installation solutions for buildings - technical details).

DDA 200 type B can be coupled with all the S 200 series MCBs.

They are used for protection in installations with electronic equipments according to EN 50178.

Applications: tertiary and industrial.

Standards: IEC/EN 61009-1 Ann. G; IEC/EN 61009-2-1; IEC 62423 ed.2

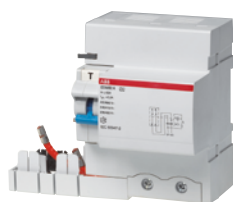
Surge current resistance (8/20 wave): 5000 A

Number of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece	Pack unit
				Type code	Order code			
3	300	63	733126	DDA203 B S-63/0,3	2CSB203892R3630		0.375	1

Number of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece	Pack unit
				Type code	Order code			
4	300	63	732822	DDA204 B S-63/0,3	2CSB204892R3630		0.395	1

RCD-blocks

DDA 800 technical features



DDA 800

Standards			
Electrical features	Type (wave form of the earth leakage sensed)		
	Poles		
	Rated current I_n		A
	Rated sensitivity $I_{\Delta n}$		A
	Rated voltage U_e		V
	Insulation voltage U_i		V
	Operating voltage of circuit test U_t		V
	Rated frequency		Hz
	Rated breaking capacity (I_{cn}) acc. to IEC /EN 60947-2		A
	Rated residual breaking capacity $I_{\Delta n}$	with S800P, S800S, S800N, S800C, S800B	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		
	Electrical Endurance		cycles (OFF-ON-OFF)
	Mechanical Endurance		cycles (OFF-ON-OFF)
	Protection degree	housing terminals	
	Environmental conditions (damp heat) acc. to IEC/EN 60068-2-30		°C/RH
	Ambient temperature (with daily average $\leq +35$ °C)		°C
	Storage temperature		°C
	Terminal size for cables	flexible rigid	mm ² mm ²
	Tightening torque		Nm
	Mounting		
Dimensions and weight	Dimensions (H x D x W)	2P	mm
		3P	mm
		4P	mm
	Weight	2P	g
		3P	g
		4P	g
Combination with MCBs	Combinable with:	S800P, S800S, S800N, S800C, S800B	

* only on 3P and 4P versions.

RCD-blocks

DDA 800 technical features

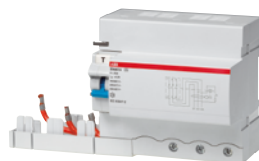
DDA 800 AC	DDA 800 A		DDA 800 A AP-R	DDA 800 A S	
IEC/EN 60947-2 Ann. B					
AC	A		A	A	
2P, 3P, 4P					
63	63	100	63-100	63	100
0.03-0.3	0.03-0.3-0.5	0.3-0.5	0.03	0.3-1	0.3-0.5*-1
230/400 - 240/415 - 400/690					
690					
195-690					
50...60					
according to the breaking capacity of the associated MCB					
according to the Icu of the associated MCB					
6					
2.5					
NA			3000	5000	
blue operating just from OFF position					
10000					
20000					
IP40					
IP20					
28 cycles with 55°C/90-96% and 25°C/95-100%					
-25...+60					
-40...+70					
6...50					
6...70					
min. 3 / max. 4					
on DIN rail EN 60715 (35 mm) by means of rapid fixing device					
108.2 x 82.3 x 81					
108.2 x 82.3 x 117					
108.2 x 82.3 x 117					
300 for 63 A - 415 for 100 A					
400 for 63 A - 640 for 100 A					
460 for 63 A - 765 for 100 A					
yes					

RCD-blocks

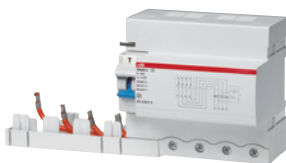
DDA 800 AC  type for MCBs S800



DDA 802



DDA 803



DDA 804

DDA 800 AC type for MCBs S800

Function: RCD-block for assembly on site with MCBs S800 series up to 63 A. Protection against the effects of sinusoidal alternating earth fault currents; protection against indirect contacts and additional protection against direct contacts (with $I_{\Delta n} = 30 \text{ mA}$).

Application: commercial, industrial.

Standard: IEC/EN 60947-2 Ann. B

Number of poles	Rated residual current $I_{\Delta n} \text{ mA}$	Rated current $I_n \text{ A}$	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece	Pack unit
				Type code	Order code	kg	pc.	
2	30	63	919704	DDA802AC-63/0.03	2CSB802001R1630	0.300	1	
	300	63	919902	DDA802AC-63/0.3	2CSB802001R3630	0.300	1	

Number of poles	Rated residual current $I_{\Delta n} \text{ mA}$	Rated current $I_n \text{ A}$	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece	Pack unit
				Type code	Order code	kg	pc.	
3	30	63	922001	DDA803AC-63/0.03	2CSB803001R1630	0.400	1	
	300	63	922209	DDA803AC-63/0.3	2CSB803001R3630	0.400	1	

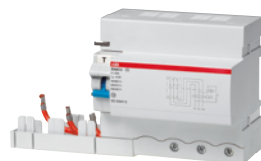
Number of poles	Rated residual current $I_{\Delta n} \text{ mA}$	Rated current $I_n \text{ A}$	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece	Pack unit
				Type code	Order code	kg	pc.	
4	30	63	924401	DDA804AC-63/0.03	2CSB804001R1630	0.460	1	
	300	63	924609	DDA804AC-63/0.3	2CSB804001R3630	0.460	1	

RCD-blocks

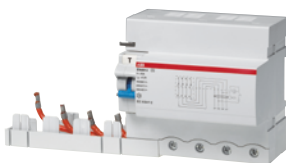
DDA 800 A  type for MCBs S800



DDA 802



DDA 803



DDA 804

DDA 800 A type for MCBs S800

Function: RCD-block for assembly on site with MCBs S800 up to 100 A. Protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contacts and additional protection against direct contacts (with $I_{\Delta n} = 30$ mA).

Application: commercial, industrial.

Standard: IEC/EN 60947-2 Ann. B

Number of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
2	30	63	920007	DDA802 A-63/0.03	2CSB802101R1630		0.300	1
	300	63	920205	DDA802 A-63/0.3	2CSB802101R3630		0.300	1
		100	545033	DDA802 A-100/0.3	2CSB802101R3000		0.415	1
	500	63	920403	DDA802 A-63/0.5	2CSB802101R4630		0.300	1
		100	542636	DDA802 A-100/0.5	2CSB802101R4000		0.415	1

Number of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
3	30	63	922308	DDA803 A-63/0.03	2CSB803101R1630		0.400	1
	300	63	922506	DDA803 A-63/0.3	2CSB803101R3630		0.400	1
		100	544135	DDA803 A-100/0.3	2CSB803101R3000		0.640	1
	500	63	922704	DDA803 A-63/0.5	2CSB803101R4630		0.400	1
		100	541738	DDA803 A-100/0.5	2CSB803101R4000		0.640	1

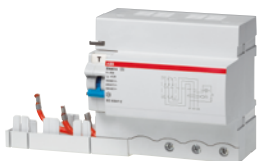
Number of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
4	30	63	924807	DDA804 A-63/0.03	2CSB804101R1630		0.460	1
	300	63	925002	DDA804 A-63/0.3	2CSB804101R3630		0.460	1
		100	547532	DDA804 A-100/0.3	2CSB804101R3000		0.765	1
	500	63	925200	DDA804 A-63/0.5	2CSB804101R4630		0.460	1
		100	544937	DDA804 A-100/0.5	2CSB804101R4000		0.765	1

RCD-blocks

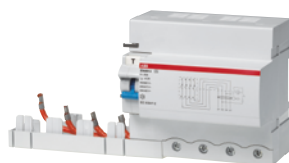
DDA 800 A  type AP-R (high immunity) for MCBs S800



DDA 802



DDA 803



DDA 804

DDA 800 A AP-R type for MCBs S800

Function: RCD-block for assembly on site with MCBs S800 up to 100 A. Protection against the effects of sinusoidal alternating and direct pulsating earth fault currents, providing the best compromise between safety and continuity in the service thanks to the resistance to unwanted trippings; protection against indirect contacts and additional protection against direct contacts (with $I_{\Delta n} = 30$ mA).

Application: commercial, industrial.

Standard: IEC/EN 60947-2 Ann. B

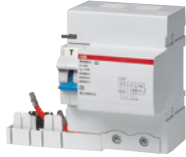
Number of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece	Pack unit
				Type code	Order code		kg	pc.
2	30	63	921400	DDA802 A-63/0.03 AP-R	2CSB802401R1630		0.300	1
		100	544630	DDA802 A-100/0.03 AP-R	2CSB802401R1000		0.415	1

Number of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece	Pack unit
				Type code	Order code		kg	pc.
3	30	63	923800	DDA803 A-63/0.03 AP-R	2CSB803401R1630		0.400	1
		100	542230	DDA803 A-100/0.03 AP-R	2CSB803401R1000		0.640	1

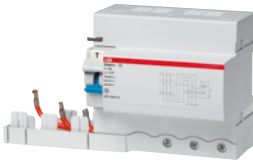
Number of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece	Pack unit
				Type code	Order code		kg	pc.
4	30	63	927709	DDA804 A-63/0.03 AP-R	2CSB804401R1630		0.460	1
		100	547136	DDA804 A-100/0.03 AP-R	2CSB804401R1000		0.765	1

RCD-blocks

DDA 800 A  type selective for MCBs S800



DDA 802



DDA 803



DDA 804

DDA 800 A selective type for MCBs S800

Function: RCD-block for assembly on site with MCBs S800 series up to 100 A. 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 (for more information about selectivity see the technical guide).

Application: commercial, industrial.

Standard: IEC/EN 60947-2 Ann. B

Number of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
2	300	63	920601	DDA802 A S-63/0.3	2CSB802201R3630		0.300	1
		100	542537	DDA802 A S-100/0.3	2CSB802201R3000		0.415	1
	1000	63	920809	DDA802 A S-63/1	2CSB802201R5630		0.300	1
		100	547433	DDA802 A S-100/1	2CSB802201R5000		0.415	1

Number of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
3	300	63	922902	DDA803 A S-63/0.3	2CSB803201R3630		0.400	1
		100	544838	DDA803 A S-100/0.3	2CSB803201R3000		0.640	1
	500	100	542438	DDA803 A S-100/0.5	2CSB803201R4000		0.640	1
	1000	63	923206	DDA803 A S-63/1	2CSB803201R5630		0.400	1
		100	547334	DDA803 A S-100/1	2CSB803201R5000		0.640	1

Number of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
4	300	63	926207	DDA804 A S-63/0.3	2CSB804201R3630		0.460	1
		100	544739	DDA804 A S-100/0.3	2CSB804201R3000		0.765	1
	500	100	542339	DDA804 A S-100/0.5	2CSB804201R4000		0.765	1
	1000	63	926504	DDA804 A S-63/1	2CSB804201R5630		0.460	1
		100	547235	DDA804 A S-100/1	2CSB804201R5000		0.765	1

RCBO DS201

Compact solutions for a complete protection

Easy to install

Bi-directional cylindrical terminal ensure higher safety of connecting operations, making them easier.

Test pushbutton

Test pushbutton to verify the correct functioning of the device.

Earth fault indicator

Blue flag on the toggle to identify earth fault trips. I ON – 0 OFF indication molded on the toggle.

Contact position indicator (CPI)

To indicate the status of the contacts independently from the toggle position: green (open), red (closed).

Laser printed information

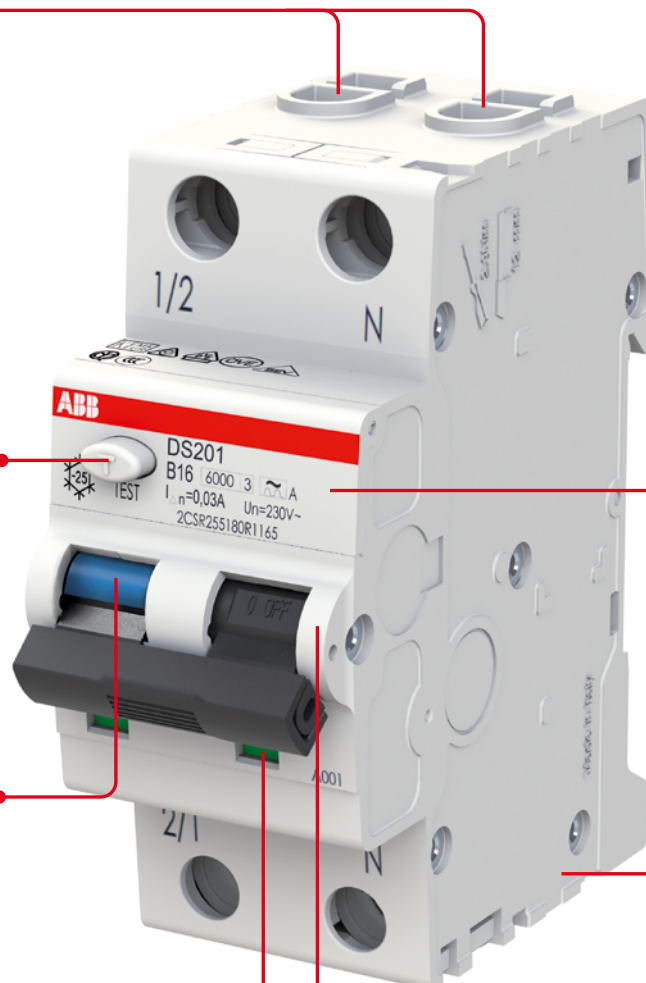
Information on the device are laser printed to ensure readability over time.

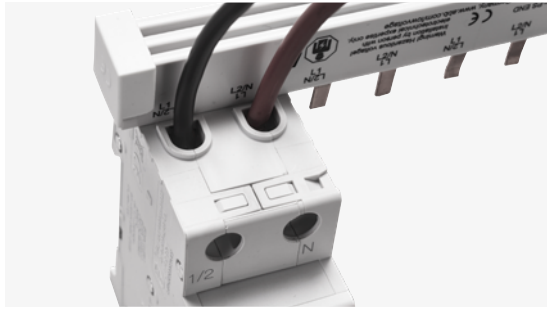
Combination with accessories

Improved combination with System pro M compact® accessories, including also the auxiliary contact for bottom fitting and motor operating device.

Dedicated space for label

Dedicated space to insert labels in order to clearly identify the protected lines.





Easy installation

The terminals available on DS201 make easier the supply operation in parallel with cables and busbars as they are composed by two different seats: a front seat for 25 mm² cables and a back seat for 10 mm² busbars. Supply is possible either from top or bottom side.



Mounting clip

Stable fixing on DIN rail, easy and fast mounting and dismounting operations thanks to the standard mounting clip.



Display the operational status

Easy troubleshooting and reduced downtime for maintenance operations thanks to both the blue indicator, that signals the differential tripping to immediately identify any earth fault (it cannot be activated in case of manual operation on the toggle) and the contact position indicator (CPI) that helps to always know the status of the contacts (red: closed contacts; green: open contacts).



Reliable in extreme conditions

RCBO DS201 can be used in ambient conditions where the temperature of the surrounding atmosphere has values between -25 °C (snowflake laser printed on the front of the device) and +55°C.

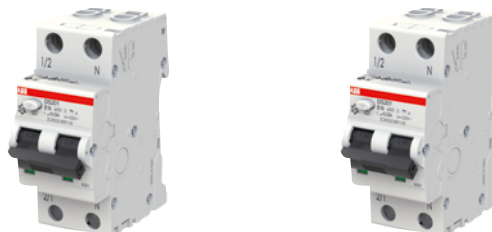


Additional laser printing

Additional information are laser printed on the lateral side of the device, including also the wiring diagram and the EAN code respectively for easier installation and for easier stock management.

RCBOs

DS201 technical features



				DS201 L	DS201
Standards				IEC/EN 61009-1; IEC/EN 61009-2-1	IEC/EN 61009-1; IEC/EN 61009-2-1
Electrical features	Type (wave form of the earth leakage sensed)			A - AC - APR	A - AC - APR
	Number of poles			1P + N	1P + N
	Rated current I _n		A	6 ≤ I _n ≤ 32	1 ≤ I _n ≤ 40
	Rated sensitivity I _{Δn}		A	0.01 - 0.03 - 0.3	0.01 - 0.03 - 0.1 - 0.3
	Rated operational voltage U _e		V	230-240	230-240
	Rated Insulation voltage U _i acc. to IEC/EN 60664-1		V	500 V AC	500 V AC
	Overvoltage category			III	III
	Pollution degree			2	2
	Operating voltage of circuit test U _t		V	110 (170 for 30mA) - 264	110 (170 for 30mA) - 264
	Rated frequency f		Hz	50/60	50/60
	Rated short circuit breaking capacity acc. to IEC/EN 61009-1		I _{cn} A	4500	6000
	Grid distance		mm	35	35
	Rated short circuit breking capacity acc. to IEC/EN 60947-2 (only referring to internal short circuit test)	ultimate I _{cu}	kA	6	10
		service I _{cs}	kA	4.5	7.5
	Rated residual breaking capacity I _{Δm} according to EN 61009-1		A	4500	6000
	Rated residual breaking capacity I _{Δm} according to IEC 61009-1		A	4500	6000 up to 25 A; 4500 for 32A and 40A
	Rated impulse withstand voltage U _{imp} . (1.2/50μs)		kV	4 kV	4 kV
	Dielectric test voltage at ind. freq. for 1 min.		kV	2 kV (50 / 60Hz, 1 min.)	2 kV (50 / 60Hz, 1 min.)
	Tripping characteristic		B: 3 I _n ≤ I _n ≤ 5 I _n		■
			C: 5 I _n ≤ I _n ≤ 10 I _n	■	■
			K: 10 I _n ≤ I _n ≤ 14 I _n		■
Energy limiting class acc. to EN 61009-1			3	3	
Surge current resistance (wave 8/20)		A	NA for A, AC versions; 3000 for APR version	NA for A, AC versions; 3000 for APR version	
Mechanical features	Housing Type			Insulation group I - II, RAL 7035	Insulation group I - II, RAL 7035
	Toggle Type			Insulation group II, Black RAL 9005, sealable in ON-OFF positions	Insulation group II, Black RAL 9005, sealable in ON-OFF positions
	Contact position indication			Green/Red Window	Green/Red Window
	Earth fault trip indication			Blue flag on toggle	Blue flag on toggle
	Electrical Endurance	cycles (OFF-ON-OFF)		10000	10000
	Mechanical Endurance	cycles (OFF-ON-OFF)		20000	20000
	Protection degree acc. to EN 60529	housing		IP40	IP40
		terminals		IP20	IP20
	Resistance to Shock acc. to IEC 60068-2-27			25g - 2 shocks - 13ms	25g - 2 shocks - 13ms
	Resistance to Vibrations acc. to IEC 60068-2-6			0.1 mm or 1 g - 20 cycles at 5...150...5 Hz	0.1 mm or 1 g - 20 cycles at 5...150...5 Hz
	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%	28 cycles with 55°C/90-96% and 25°C/95-100%
	Reference temperature for tripping characteristics	°C		30	30 (20 for K tripping char)
	Ambient temperature (with daily average ≤ +35 °C)		°C	-25...+55	-25...+55
	Storage temperature		°C	-40...+70	-40...+70

RCBOs

DS201 technical features



DS201 M	DS201 M 110V	DS201 T
IEC/EN 61009-1; IEC/EN 61009-2-1	IEC 61009-1; IEC 61009-2-1	IEC/EN 61009-1; IEC/EN 61009-2-1
A - AC - APR - F	A	A - APR
1P + N	1P + N	1P + N
$4 \leq I_n \leq 40$	$6 \leq I_n \leq 40$	$6 \leq I_n \leq 40$
0.01 - 0.03 - 0.1 - 0.3	0.03	0.03
230-240	230-240	230-240
500 V AC	500 V AC	500 V AC
III	III	III
2	2	2
110 (170 for 30mA) - 264	110 - 264	170 - 264
50/60	50/60	50/60
10000	10000	6000
35	35	35
15	15	10
11.2	11.2	7.5
6000	6000	6000
6000 up to 25 A; 4500 for 32A and 40A	6000 up to 25 A; 4500 for 32A and 40A	6000 up to 25 A; 4500 for 32A and 40A
4 kV	4 kV	4 kV
2 kV (50 / 60Hz, 1 min.)	2 kV (50 / 60Hz, 1 min.)	2 kV (50 / 60Hz, 1 min.)
■	■	■
■	■	■
■		
3	NA	3
NA for A, AC versions; 3000 for APR and F version	NA	NA for A; 3000 for APR version
Insulation group I - II, RAL 7035	Insulation group I - II, RAL 7035	Insulation group I - II, RAL 7035
Insulation group II, Black RAL 9005, sealable in ON-OFF positions	Insulation group II, Black RAL 9005, sealable in ON-OFF positions	Insulation group II, Black RAL 9005, sealable in ON-OFF positions
Green/Red Window	Green/Red Window	Green/Red Window
Blue flag on toggle	Blue flag on toggle	Blue flag on toggle
10000	10000	10000
20000	20000	20000
IP40	IP40	IP40
IP20	IP20	IP20
25g - 2 shocks - 13ms	25g - 2 shocks - 13ms	25g - 2 shocks - 13ms
0.1 mm or 1 g - 20 cycles at 5...150...5 Hz	0.1 mm or 1 g - 20 cycles at 5...150...5 Hz	0.1 mm or 1 g - 20 cycles at 5...150...5 Hz
28 cycles with 55°C/90-96% and 25°C/95-100%	28 cycles with 55°C/90-96% and 25°C/95-100%	28 cycles with 55°C/90-96% and 25°C/95-100%
30 (20 for K tripping char)	30	30
-25...+55	-25...+55	-25...+55
-40...+70	-40...+70	-40...+70

RCBOs

DS201 technical features



				DS201 L	DS201
Installation	Terminal type	top / bottom		failsafe bi-directional cylinder-lift terminal (shock protected)	failsafe bi-directional cylinder-lift terminal (shock protected)
	Cross-section of conductors (IEC)	top / bottom	mm ²	25/25	25/25
	Cross-section of busbars (IEC)	top / bottom	mm ²	10/10	10/10
	Tightening torque	top / bottom	Nm	2.8	2.8
	Wire Stripping Length		mm	12	12
	Screwdriver			No. 2 Pozidrive	No. 2 Pozidrive
	Mounting Type			on DIN rail EN 60715 (35mm) by means of mounting clip	on DIN rail EN 60715 (35mm) by means of mounting clip
	Mounting position			Any	Any
Dimensions and weight	Supply from			Top/Bottom terminals	Top/Bottom terminals
	Dimensions (H x D x W)		mm	85 x 69 x 35	85 x 69 x 35
	Weight		g	200	200
Combination with auxiliary elements	Combinable with accessories and auxiliaries	Auxiliary contact		yes	yes
		Signal contact / auxiliary contact		yes	yes
		Shunt trip		yes	yes
		Auxiliary contact for bottom fitting		yes	yes
		Undervoltage release		yes	yes
		Overvoltage release		yes	yes
		Motor operating device		yes	yes

DS201 technical features

[illegible]

RCBOs

DS201L series 4500 A type, C characteristic



DS201L

Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact ($I_{\Delta n}=30$ mA).

Application: residential, commercial, industrial.

Standard: IEC/EN 61009-1; IEC/EN 61009-2-1

$I_{cn} = 4500$ A

No. of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
1+N	10	6	637318	DS201 L C6 A10	2CSR245180R0064		0.2	1
		10	637011	DS201 L C10 A10	2CSR245180R0104		0.2	1
		16	637110	DS201 L C16 A10	2CSR245180R0164		0.2	1
	30	6	636717	DS201 L C6 A30	2CSR245180R1064		0.2	1
		10	636816	DS201 L C10 A30	2CSR245180R1104		0.2	1
		16	636915	DS201 L C16 A30	2CSR245180R1164		0.2	1
		20	638216	DS201 L C20 A30	2CSR245180R1204		0.2	1
		25	638315	DS201 L C25 A30	2CSR245180R1254		0.2	1
		32	638018	DS201 L C32 A30	2CSR245180R1324		0.2	1
	300	6	638117	DS201 L C6 A300	2CSR245180R3064		0.2	1
		10	638919	DS201 L C10 A300	2CSR245180R3104		0.2	1
		16	639114	DS201 L C16 A300	2CSR245180R3164		0.2	1
		20	638810	DS201 L C20 A300	2CSR245180R3204		0.2	1
		25	638612	DS201 L C25 A300	2CSR245180R3254		0.2	1
		32	639312	DS201 L C32 A300	2CSR245180R3324		0.2	1

RCBOs

DS201 L 4500 AC type, C characteristic



DS201 L

Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating earth fault currents; protection against indirect contact and additional protection against direct contact ($I_{\Delta n}=30\text{ mA}$).

Application: residential, commercial, industrial.

Standard: IEC/EN 61009-1; IEC/EN 61009-2-1

$I_{cn} = 4500\text{ A}$

No. of poles	Rated residual current $I_{\Delta n}\text{ mA}$	Rated current $I_n\text{ A}$	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
1+N	30	6	043515	DS201 L C6 AC30	2CSR245080R1064		0.2	1
		10	043416	DS201 L C10 AC30	2CSR245080R1104		0.2	1
		16	030218	DS201 L C16 AC30	2CSR245080R1164		0.2	1
		20	030010	DS201 L C20 AC30	2CSR245080R1204		0.2	1
		25	030119	DS201 L C25 AC30	2CSR245080R1254		0.2	1
		32	637615	DS201 L C32 AC30	2CSR245080R1324		0.2	1
	300	6	637714	DS201 L C6 AC300	2CSR245080R3064		0.2	1
		10	637417	DS201 L C10 AC300	2CSR245080R3104		0.2	1
		16	637516	DS201 L C16 AC300	2CSR245080R3164		0.2	1
		20	637813	DS201 L C20 AC300	2CSR245080R3204		0.2	1
		25	637912	DS201 L C25 AC300	2CSR245080R3254		0.2	1
		32	637219	DS201 L C32 AC300	2CSR245080R3324		0.2	1

DS201 L 4500 APR type, C characteristic



DS201 L

Function: protection against the effects of sinusoidal alternating and direct pulsating earth fault currents, providing an optimal trade-off between safety and continuity of service, thanks to the resistance to unwanted tripping; protection against indirect contact and additional protection against direct contact ($I_{\Delta n}=30\text{ mA}$); protection and isolation of resistive and inductive loads.

Application: residential, commercial, industrial.

Standard: IEC/EN 61009-1; IEC/EN 61009-2-1

$I_{cn} = 4500\text{ A}$

No. of poles	Rated residual current $I_{\Delta n}\text{ mA}$	Rated current $I_n\text{ A}$	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
1+N	30	6	639411	DS201 L C6 APR30	2CSR245480R1064		0.2	1
		10	638711	DS201 L C10 APR30	2CSR245480R1104		0.2	1
		16	639619	DS201 L C16 APR30	2CSR245480R1164		0.2	1
		20	639213	DS201 L C20 APR30	2CSR245480R1204		0.2	1
		25	639510	DS201 L C25 APR30	2CSR245480R1254		0.2	1
		32	639015	DS201 L C32 APR30	2CSR245480R1324		0.2	1

RCBOs

DS201 6000 A  type, B characteristic



DS201

Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact ($I_{\Delta n}=30$ mA).

Application: residential, commercial, industrial.

Standard: IEC/EN 61009-1; IEC/EN 61009-2-1

$I_{cn} = 6000$ A

No. of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
1+N	10	10	065913	DS201 B10 A10	2CSR255180R0105		0.2	1
		13	065814	DS201 B13 A10	2CSR255180R0135		0.2	1
		16	066316	DS201 B16 A10	2CSR255180R0165		0.2	1
	30	6	066217	DS201 B6 A30	2CSR255180R1065		0.2	1
		10	066118	DS201 B10 A30	2CSR255180R1105		0.2	1
		13	058113	DS201 B13 A30	2CSR255180R1135		0.2	1
		16	058519	DS201 B16 A30	2CSR255180R1165		0.2	1
		20	969815	DS201 B20 A30	2CSR255180R1205		0.2	1
		25	969716	DS201 B25 A30	2CSR255180R1255		0.2	1
		32	970019	DS201 B32 A30	2CSR255180R1325		0.2	1
		40	969914	DS201 B40 A30	2CSR255180R1405		0.2	1
	100	6	779414	DS201 B6 A100	2CSR255180R2065		0.2	1
		10	790211	DS201 B10 A100	2CSR255180R2105		0.2	1
		13	779810	DS201 B13 A100	2CSR255180R2135		0.2	1
		16	779711	DS201 B16 A100	2CSR255180R2165		0.2	1
		20	779612	DS201 B20 A100	2CSR255180R2205		0.2	1
		25	779513	DS201 B25 A100	2CSR255180R2255		0.2	1
		32	372011	DS201 B32 A100	2CSR255180R2325		0.2	1
		40	023913	DS201 B40 A100	2CSR255180R2405		0.2	1
	300	6	070313	DS201 B6 A300	2CSR255180R3065		0.2	1
		10	643616	DS201 B10 A300	2CSR255180R3105		0.2	1
		13	643418	DS201 B13 A300	2CSR255180R3135		0.2	1
		16	643517	DS201 B16 A300	2CSR255180R3165		0.2	1
		20	643814	DS201 B20 A300	2CSR255180R3205		0.2	1
		25	643715	DS201 B25 A300	2CSR255180R3255		0.2	1
		32	643319	DS201 B32 A300	2CSR255180R3325		0.2	1
		40	965312	DS201 B40 A300	2CSR255180R3405		0.2	1

RCBOs

DS201 6000 A  type, C characteristic



DS201

Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact ($I\Delta n=30$ mA).

Application: residential, commercial, industrial.

Standard: IEC/EN 61009-1; IEC/EN 61009-2-1

$I_{cn} = 6000$ A

No. of poles	Rated residual current $I\Delta n$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
1+N	10	10	738817	DS201 C10 A10	2CSR255180R0104		0.2	1
		13	738015	DS201 C13 A10	2CSR255180R0134		0.2	1
		16	739418	DS201 C16 A10	2CSR255180R0164		0.2	1
	30	2	738718	DS201 C2 A30	2CSR255180R1024		0.2	1
		4	737919	DS201 C4 A30	2CSR255180R1044		0.2	1
		6	737117	DS201 C6 A30	2CSR255180R1064		0.2	1
		8	738619	DS201 C8 A30	2CSR255180R1084		0.2	1
		10	737810	DS201 C10 A30	2CSR255180R1104		0.2	1
		13	737018	DS201 C13 A30	2CSR255180R1134		0.2	1
		16	739319	DS201 C16 A30	2CSR255180R1164		0.2	1
		20	738510	DS201 C20 A30	2CSR255180R1204		0.2	1
		25	737711	DS201 C25 A30	2CSR255180R1254		0.2	1
		32	737612	DS201 C32 A30	2CSR255180R1324		0.2	1
		40	738411	DS201 C40 A30	2CSR255180R1404		0.2	1
	100	6	739012	DS201 C6 A100	2CSR255180R2064		0.2	1
		10	738213	DS201 C10 A100	2CSR255180R2104		0.2	1
		13	737315	DS201 C13 A100	2CSR255180R2134		0.2	1
		16	738916	DS201 C16 A100	2CSR255180R2164		0.2	1
		20	738114	DS201 C20 A100	2CSR255180R2204		0.2	1
		25	737216	DS201 C25 A100	2CSR255180R2254		0.2	1
		32	747215	DS201 C32 A100	2CSR255180R2324		0.2	1
		40	747116	DS201 C40 A100	2CSR255180R2404		0.2	1
	300	2	739210	DS201 C2 A300	2CSR255180R3024		0.2	1
		4	062714	DS201 C4 A300	2CSR255180R3044		0.2	1
		6	007814	DS201 C6 A300	2CSR255180R3064		0.2	1
		8	007715	DS201 C8 A300	2CSR255180R3084		0.2	1
		10	062615	DS201 C10 A300	2CSR255180R3104		0.2	1
		13	886716	DS201 C13 A300	2CSR255180R3134		0.2	1
		16	886815	DS201 C16 A300	2CSR255180R3164		0.2	1
		20	886617	DS201 C20 A300	2CSR255180R3204		0.2	1
		25	886310	DS201 C25 A300	2CSR255180R3254		0.2	1
		32	886211	DS201 C32 A300	2CSR255180R3324		0.2	1
		40	326311	DS201 C40 A300	2CSR255180R3404		0.2	1

RCBOs

DS201 6000 A  type, K characteristic



DS201

Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact ($I_{\Delta n}=30$ mA).

Application: residential, commercial, industrial.

Standard: IEC/EN 61009-1; IEC/EN 61009-2-1

$I_{cn} = 6000$ A

No. of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
1+N	10	10	647515	DS201 K10 A10	2CSR255180R0107		0.2	1
		13	061717	DS201 K13 A10	2CSR255180R0137		0.2	1
		16	295419	DS201 K16 A10	2CSR255180R0167		0.2	1
	30	1	295310	DS201 K1 A30	2CSR255180R1017		0.2	1
		2	498513	DS201 K2 A30	2CSR255180R1027		0.2	1
		4	305415	DS201 K4 A30	2CSR255180R1047		0.2	1
		6	647614	DS201 K6 A30	2CSR255180R1067		0.2	1
		8	643913	DS201 K8 A30	2CSR255180R1087		0.2	1
		10	587712	DS201 K10 A30	2CSR255180R1107		0.2	1
		13	575917	DS201 K13 A30	2CSR255180R1137		0.2	1
		16	564119	DS201 K16 A30	2CSR255180R1167		0.2	1
	300	20	586814	DS201 K20 A30	2CSR255180R1207		0.2	1
		25	575016	DS201 K25 A30	2CSR255180R1257		0.2	1
		32	563211	DS201 K32 A30	2CSR255180R1327		0.2	1
		40	775911	DS201 K40 A30	2CSR255180R1407		0.2	1
		1	773719	DS201 K1 A300	2CSR255180R3017		0.2	1
		2	771517	DS201 K2 A300	2CSR255180R3027		0.2	1
		4	587613	DS201 K4 A300	2CSR255180R3047		0.2	1
	300	6	575818	DS201 K6 A300	2CSR255180R3067		0.2	1
		8	564010	DS201 K8 A300	2CSR255180R3087		0.2	1
		10	586715	DS201 K10 A300	2CSR255180R3107		0.2	1
		13	574910	DS201 K13 A300	2CSR255180R3137		0.2	1
		16	563112	DS201 K16 A300	2CSR255180R3167		0.2	1
		20	775812	DS201 K20 A300	2CSR255180R3207		0.2	1
		25	773610	DS201 K25 A300	2CSR255180R3257		0.2	1
		32	771418	DS201 K32 A300	2CSR255180R3327		0.2	1
		40	587514	DS201 K40 A300	2CSR255180R3407		0.2	1

RCBOs

DS201 6000 AC type, B characteristic



DS201

Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating earth fault currents; protection against indirect contact and additional protection against direct contact ($I_{\Delta n}=30$ mA).

Application: residential, commercial, industrial.

Standard: IEC/EN 61009-1; IEC/EN 61009-2-1

$I_{cn} = 6000$ A

No. of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
1+N	30	6	274315	DS201 B6 AC30	2CSR255080R1065		0.2	1
		10	333913	DS201 B10 AC30	2CSR255080R1105		0.2	1
		13	508014	DS201 B13 AC30	2CSR255080R1135		0.2	1
		16	295815	DS201 B16 AC30	2CSR255080R1165		0.2	1
		20	295617	DS201 B20 AC30	2CSR255080R1205		0.2	1
		25	965213	DS201 B25 AC30	2CSR255080R1255		0.2	1
		32	963011	DS201 B32 AC30	2CSR255080R1325		0.2	1
		40	964919	DS201 B40 AC30	2CSR255080R1405		0.2	1
	100	6	965114	DS201 B6 AC100	2CSR255080R2065		0.2	1
		10	295716	DS201 B10 AC100	2CSR255080R2105		0.2	1
		13	649410	DS201 B13 AC100	2CSR255080R2135		0.2	1
		16	649311	DS201 B16 AC100	2CSR255080R2165		0.2	1
		20	649212	DS201 B20 AC100	2CSR255080R2205		0.2	1
		25	649113	DS201 B25 AC100	2CSR255080R2255		0.2	1
		32	649519	DS201 B32 AC100	2CSR255080R2325		0.2	1
		40	027911	DS201 B40 AC100	2CSR255080R2405		0.2	1
	300	6	027812	DS201 B6 AC300	2CSR255080R3065		0.2	1
		10	007210	DS201 B10 AC300	2CSR255080R3105		0.2	1
		13	007111	DS201 B13 AC300	2CSR255080R3135		0.2	1
		16	644118	DS201 B16 AC300	2CSR255080R3165		0.2	1
		20	644019	DS201 B20 AC300	2CSR255080R3205		0.2	1
		25	644316	DS201 B25 AC300	2CSR255080R3255		0.2	1
		32	644217	DS201 B32 AC300	2CSR255080R3325		0.2	1
		40	066019	DS201 B40 AC300	2CSR255080R3405		0.2	1

RCBOs

DS201 6000 AC  type, C characteristic



DS201

Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating earth fault currents; protection against indirect contact and additional protection against direct contact ($I_{\Delta n}=30$ mA).

Application: residential, commercial, industrial.

Standard: IEC/EN 61009-1; IEC/EN 61009-2-1

$I_{cn} = 6000$ A

No. of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
1+N	30	6	896319	DS201 C6 AC30	2CSR255080R1064		0.2	1
		10	049418	DS201 C10 AC30	2CSR255080R1104		0.2	1
		13	049319	DS201 C13 AC30	2CSR255080R1134		0.2	1
		16	049210	DS201 C16 AC30	2CSR255080R1164		0.2	1
		20	049111	DS201 C20 AC30	2CSR255080R1204		0.2	1
		25	049012	DS201 C25 AC30	2CSR255080R1254		0.2	1
		32	048916	DS201 C32 AC30	2CSR255080R1324		0.2	1
		40	048817	DS201 C40 AC30	2CSR255080R1404		0.2	1
	100	6	048718	DS201 C6 AC100	2CSR255080R2064		0.2	1
		10	048619	DS201 C10 AC100	2CSR255080R2104		0.2	1
		13	048510	DS201 C13 AC100	2CSR255080R2134		0.2	1
		16	048411	DS201 C16 AC100	2CSR255080R2164		0.2	1
		20	048312	DS201 C20 AC100	2CSR255080R2204		0.2	1
		25	048213	DS201 C25 AC100	2CSR255080R2254		0.2	1
		32	048114	DS201 C32 AC100	2CSR255080R2324		0.2	1
		40	048015	DS201 C40 AC100	2CSR255080R2404		0.2	1
	300	6	047919	DS201 C6 AC300	2CSR255080R3064		0.2	1
		10	047810	DS201 C10 AC300	2CSR255080R3104		0.2	1
		13	047711	DS201 C13 AC300	2CSR255080R3134		0.2	1
		16	047612	DS201 C16 AC300	2CSR255080R3164		0.2	1
		20	049814	DS201 C20 AC300	2CSR255080R3204		0.2	1
		25	049715	DS201 C25 AC300	2CSR255080R3254		0.2	1
		32	049616	DS201 C32 AC300	2CSR255080R3324		0.2	1
		40	049517	DS201 C40 AC300	2CSR255080R3404		0.2	1

RCBOs

DS201 6000 APR type, C characteristic



DS201

Function: protection against the effects of sinusoidal alternating and direct pulsating earth fault currents, providing an optimal trade-off between safety and continuity of service thanks to the resistance to unwanted tripping; protection against indirect contact and additional protection against direct contact ($I_{\Delta n}=30$ mA); protection and isolation of resistive and inductive loads.

Application: residential, commercial, industrial.

Standard: IEC/EN 61009-1; IEC/EN 61009-2-1

$I_{cn} = 6000$ A

No. of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
1+N	30	6	326212	DS201 C6 APR30	2CSR255480R1064		0.2	1
		10	399612	DS201 C10 APR30	2CSR255480R1104		0.2	1
		13	399711	DS201 C13 APR30	2CSR255480R1134		0.2	1
		16	658917	DS201 C16 APR30	2CSR255480R1164		0.2	1
		20	658412	DS201 C20 APR30	2CSR255480R1204		0.2	1
		25	659914	DS201 C25 APR30	2CSR255480R1254		0.2	1
		32	659419	DS201 C32 APR30	2CSR255480R1324		0.2	1
		40	658610	DS201 C40 APR30	2CSR255480R1404		0.2	1
	100	6	658115	DS201 C6 APR100	2CSR255480R2064		0.2	1
		10	659617	DS201 C10 APR100	2CSR255480R2104		0.2	1
		13	910916	DS201 C13 APR100	2CSR255480R2134		0.2	1
		16	659112	DS201 C16 APR100	2CSR255480R2164		0.2	1
		20	658719	DS201 C20 APR100	2CSR255480R2204		0.2	1
		25	658214	DS201 C25 APR100	2CSR255480R2254		0.2	1
		32	659716	DS201 C32 APR100	2CSR255480R2324		0.2	1
		40	659211	DS201 C40 APR100	2CSR255480R2404		0.2	1
	300	6	658818	DS201 C6 APR300	2CSR255480R3064		0.2	1
		10	658313	DS201 C10 APR300	2CSR255480R3104		0.2	1
		13	659815	DS201 C13 APR300	2CSR255480R3134		0.2	1
		16	659310	DS201 C16 APR300	2CSR255480R3164		0.2	1
		20	658511	DS201 C20 APR300	2CSR255480R3204		0.2	1
		25	658016	DS201 C25 APR300	2CSR255480R3254		0.2	1
		32	659518	DS201 C32 APR300	2CSR255480R3324		0.2	1
		40	910817	DS201 C40 APR300	2CSR255480R3404		0.2	1

RCBOs

DS201 M 10000 A  type, B characteristic



DS201 M

Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact ($I_{\Delta n}=30$ mA).

Application: residential, commercial, industrial.

Standard: IEC/EN 61009-1; IEC/EN 61009-2-1

$I_{cn} = 10000$ A

No. of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
1+N	10	10	574613	DS201 M B10 A10	2CSR275180R0105		0.2	1
		16	562818	DS201 M B16 A10	2CSR275180R0165		0.2	1
	30	6	775515	DS201 M B6 A30	2CSR275180R1065		0.2	1
		10	773313	DS201 M B10 A30	2CSR275180R1105		0.2	1
		13	771111	DS201 M B13 A30	2CSR275180R1135		0.2	1
		16	587217	DS201 M B16 A30	2CSR275180R1165		0.2	1
		20	575412	DS201 M B20 A30	2CSR275180R1205		0.2	1
		25	563617	DS201 M B25 A30	2CSR275180R1255		0.2	1
		32	586319	DS201 M B32 A30	2CSR275180R1325		0.2	1
		40	574514	DS201 M B40 A30	2CSR275180R1405		0.2	1
	100	6	562719	DS201 M B6 A100	2CSR275180R2065		0.2	1
		10	775416	DS201 M B10 A100	2CSR275180R2105		0.2	1
		13	773214	DS201 M B13 A100	2CSR275180R2135		0.2	1
		16	771012	DS201 M B16 A100	2CSR275180R2165		0.2	1
		20	587118	DS201 M B20 A100	2CSR275180R2205		0.2	1
		25	575313	DS201 M B25 A100	2CSR275180R2255		0.2	1
		32	563518	DS201 M B32 A100	2CSR275180R2325		0.2	1
		40	586210	DS201 M B40 A100	2CSR275180R2405		0.2	1
	300	6	574415	DS201 M B6 A300	2CSR275180R3065		0.2	1
		10	562610	DS201 M B10 A300	2CSR275180R3105		0.2	1
		13	775317	DS201 M B13 A300	2CSR275180R3135		0.2	1
		16	773115	DS201 M B16 A300	2CSR275180R3165		0.2	1
		20	770916	DS201 M B20 A300	2CSR275180R3205		0.2	1
		25	587019	DS201 M B25 A300	2CSR275180R3255		0.2	1
		32	575214	DS201 M B32 A300	2CSR275180R3325		0.2	1
		40	563419	DS201 M B40 A300	2CSR275180R3405		0.2	1

RCBOs

DS201 M 10000 A  type, C characteristic



DS201 M

Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact ($I\Delta n=30$ mA).

Application: residential, commercial, industrial.

Standard: IEC/EN 61009-1; IEC/EN 61009-2-1

$I_{cn} = 10000$ A

No. of poles	Rated residual current $I\Delta n$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
1+N	10	10	594116	DS201 M C10 A10	2CSR275180R0104		0.2	1
		16	582311	DS201 M C16 A10	2CSR275180R0164		0.2	1
	30	4	570516	DS201 M C4 A30	2CSR275180R1044		0.2	1
		6	595410	DS201 M C6 A30	2CSR275180R1064		0.2	1
		10	583615	DS201 M C10 A30	2CSR275180R1104		0.2	1
		13	571810	DS201 M C13 A30	2CSR275180R1134		0.2	1
		16	592815	DS201 M C16 A30	2CSR275180R1164		0.2	1
		20	581017	DS201 M C20 A30	2CSR275180R1204		0.2	1
		25	569213	DS201 M C25 A30	2CSR275180R1254		0.2	1
		32	594017	DS201 M C32 A30	2CSR275180R1324		0.2	1
		40	582212	DS201 M C40 A30	2CSR275180R1404		0.2	1
		6	570417	DS201 M C6 A100	2CSR275180R2064		0.2	1
	100	10	595311	DS201 M C10 A100	2CSR275180R2104		0.2	1
		16	583516	DS201 M C16 A100	2CSR275180R2164		0.2	1
		20	571711	DS201 M C20 A100	2CSR275180R2204		0.2	1
		25	593911	DS201 M C25 A100	2CSR275180R2254		0.2	1
		32	582113	DS201 M C32 A100	2CSR275180R2324		0.2	1
		40	570318	DS201 M C40 A100	2CSR275180R2404		0.2	1
		6	595212	DS201 M C6 A300	2CSR275180R3064		0.2	1
		10	583417	DS201 M C10 A300	2CSR275180R3104		0.2	1
		13	571612	DS201 M C13 A300	2CSR275180R3134		0.2	1
		16	592716	DS201 M C16 A300	2CSR275180R3164		0.2	1
	300	20	580911	DS201 M C20 A300	2CSR275180R3204		0.2	1
		25	569114	DS201 M C25 A300	2CSR275180R3254		0.2	1
		32	593812	DS201 M C32 A300	2CSR275180R3324		0.2	1
		40	582014	DS201 M C40 A300	2CSR275180R3404		0.2	1

RCBOs

DS201 M 10000 A type, K characteristic



DS201 M

Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents.

Application: residential, commercial, industrial.

Standard: IEC/EN 61009-1; IEC/EN 61009-2-1

Icn = 10000 A

No. of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
1+N	100	6	568919	DS201 M K6 A100	2CSR275180R2067		0.2	1
		10	593515	DS201 M K10 A100	2CSR275180R2107		0.2	1
		13	581710	DS201 M K13 A100	2CSR275180R2137		0.2	1
		16	569916	DS201 M K16 A100	2CSR275180R2167		0.2	1
		20	594819	DS201 M K20 A100	2CSR275180R2207		0.2	1
		25	583011	DS201 M K25 A100	2CSR275180R2257		0.2	1
		32	571216	DS201 M K32 A100	2CSR275180R2327		0.2	1
		40	593416	DS201 M K40 A100	2CSR275180R2407		0.2	1

RCBOs

DS201 M 10000 AC type, B characteristic



DS201 M

Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating earth fault currents; protection against indirect contact and additional protection against direct contact ($I_{\Delta n}=30$ mA).

Application: residential, commercial, industrial.

Standard: IEC/EN 61009-1; IEC/EN 61009-2-1

$I_{cn} = 10000$ A

No. of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
1+N	30	6	575719	DS201 M B6 AC30	2CSR275080R1065		0.2	1
		10	563914	DS201 M B10 AC30	2CSR275080R1105		0.2	1
		13	586616	DS201 M B13 AC30	2CSR275080R1135		0.2	1
		16	574811	DS201 M B16 AC30	2CSR275080R1165		0.2	1
		20	563013	DS201 M B20 AC30	2CSR275080R1205		0.2	1
		25	775713	DS201 M B25 AC30	2CSR275080R1255		0.2	1
		32	773511	DS201 M B32 AC30	2CSR275080R1325		0.2	1
		40	771319	DS201 M B40 AC30	2CSR275080R1405		0.2	1
	100	6	775010	DS201 M B6 AC100	2CSR275080R2065		0.2	1
		10	772811	DS201 M B10 AC100	2CSR275080R2105		0.2	1
		13	770619	DS201 M B13 AC100	2CSR275080R2135		0.2	1
		16	587415	DS201 M B16 AC100	2CSR275080R2165		0.2	1
		20	575610	DS201 M B20 AC100	2CSR275080R2205		0.2	1
		25	563815	DS201 M B25 AC100	2CSR275080R2255		0.2	1
		32	586517	DS201 M B32 AC100	2CSR275080R2325		0.2	1
		40	574712	DS201 M B40 AC100	2CSR275080R2405		0.2	1
	300	6	562917	DS201 M B6 AC300	2CSR275080R3065		0.2	1
		10	775614	DS201 M B10 AC300	2CSR275080R3105		0.2	1
		13	773412	DS201 M B13 AC300	2CSR275080R3135		0.2	1
		16	771210	DS201 M B16 AC300	2CSR275080R3165		0.2	1
		20	587316	DS201 M B20 AC300	2CSR275080R3205		0.2	1
		25	575511	DS201 M B25 AC300	2CSR275080R3255		0.2	1
		32	563716	DS201 M B32 AC300	2CSR275080R3325		0.2	1
		40	586418	DS201 M B40 AC300	2CSR275080R3405		0.2	1

RCBOs

DS201 M 10000 AC type, C characteristic



DS201 M

Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating earth fault currents; protection against indirect contact and additional protection against direct contact ($I_{\Delta n}=30$ mA).

Application: residential, commercial, industrial.

Standard: IEC/EN 61009-1; IEC/EN 61009-2-1

$I_{cn} = 10000$ A

No. of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
1+N	30	6	586111	DS201 M C6 AC30	2CSR275080R1064		0.2	1
		10	574316	DS201 M C10 AC30	2CSR275080R1104		0.2	1
		13	562511	DS201 M C13 AC30	2CSR275080R1134		0.2	1
		16	775218	DS201 M C16 AC30	2CSR275080R1164		0.2	1
		20	773016	DS201 M C20 AC30	2CSR275080R1204		0.2	1
		25	770817	DS201 M C25 AC30	2CSR275080R1254		0.2	1
		32	910015	DS201 M C32 AC30	2CSR275080R1324		0.2	1
		40	909811	DS201 M C40 AC30	2CSR275080R1404		0.2	1
	100	6	909613	DS201 M C6 AC100	2CSR275080R2064		0.2	1
		10	587811	DS201 M C10 AC100	2CSR275080R2104		0.2	1
		13	576013	DS201 M C13 AC100	2CSR275080R2134		0.2	1
		16	564218	DS201 M C16 AC100	2CSR275080R2164		0.2	1
		20	586913	DS201 M C20 AC100	2CSR275080R2204		0.2	1
		25	575115	DS201 M C25 AC100	2CSR275080R2254		0.2	1
		32	563310	DS201 M C32 AC100	2CSR275080R2324		0.2	1
		40	586012	DS201 M C40 AC100	2CSR275080R2404		0.2	1
	300	6	574217	DS201 M C6 AC300	2CSR275080R3064		0.2	1
		10	562412	DS201 M C10 AC300	2CSR275080R3104		0.2	1
		13	775119	DS201 M C13 AC300	2CSR275080R3134		0.2	1
		16	772910	DS201 M C16 AC300	2CSR275080R3164		0.2	1
		20	770718	DS201 M C20 AC300	2CSR275080R3204		0.2	1
		25	774914	DS201 M C25 AC300	2CSR275080R3254		0.2	1
		32	772712	DS201 M C32 AC300	2CSR275080R3324		0.2	1
		40	770510	DS201 M C40 AC300	2CSR275080R3404		0.2	1

RCBOs

DS201 M 10000 APR  type, C characteristic



DS201 M

Function: protection against the effects of sinusoidal alternating and direct pulsating earth fault currents, providing an optimal compromise between safety and continuity of service, thanks to the resistance to unwanted tripping; protection against indirect contact and additional protection against direct contact ($I\Delta n=30$ mA); protection and isolation of resistive and inductive loads.

Application: residential, commercial, industrial.

Standard: IEC/EN 61009-1; IEC/EN 61009-2-1

$I_{cn} = 10000$ A

No. of poles	Rated residual current $I\Delta n$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
1+N	30	6	570219	DS201 M C6 APR30	2CSR275480R1064		0.2	1
		10	591917	DS201 M C10 APR30	2CSR275480R1104		0.2	1
		13	580119	DS201 M C13 APR30	2CSR275480R1134		0.2	1
		16	568315	DS201 M C16 APR30	2CSR275480R1164		0.2	1
		20	595113	DS201 M C20 APR30	2CSR275480R1204		0.2	1
		25	583318	DS201 M C25 APR30	2CSR275480R1254		0.2	1
		32	571513	DS201 M C32 APR30	2CSR275480R1324		0.2	1
		40	592617	DS201 M C40 APR30	2CSR275480R1404		0.2	1
	100	6	580812	DS201 M C6 APR100	2CSR275480R2064		0.2	1
		10	569015	DS201 M C10 APR100	2CSR275480R2104		0.2	1
		13	593713	DS201 M C13 APR100	2CSR275480R2134		0.2	1
		16	581918	DS201 M C16 APR100	2CSR275480R2164		0.2	1
		20	570110	DS201 M C20 APR100	2CSR275480R2204		0.2	1
		25	595014	DS201 M C25 APR100	2CSR275480R2254		0.2	1
		32	583219	DS201 M C32 APR100	2CSR275480R2324		0.2	1
		40	571414	DS201 M C40 APR100	2CSR275480R2404		0.2	1
	300	6	593614	DS201 M C6 APR300	2CSR275480R3064		0.2	1
		10	581819	DS201 M C10 APR300	2CSR275480R3104		0.2	1
		13	570011	DS201 M C13 APR300	2CSR275480R3134		0.2	1
		16	594918	DS201 M C16 APR300	2CSR275480R3164		0.2	1
		20	583110	DS201 M C20 APR300	2CSR275480R3204		0.2	1
		25	571315	DS201 M C25 APR300	2CSR275480R3254		0.2	1
		32	592518	DS201 M C32 APR300	2CSR275480R3324		0.2	1
		40	580713	DS201 M C40 APR300	2CSR275480R3404		0.2	1

RCBOs

DS201 M 10000 F   type, B characteristic



DS201 M

Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating earth fault currents; protection against indirect contact and additional protection against direct contact ($I_{\Delta n}=30$ mA). Specifically suitable for the protection of lines supplying single phase inverters.

Application: residential, commercial, industrial.

Standard: IEC/EN 61009-1; IEC/EN 61009-2-1; IEC/EN 62423

$I_{cn} = 10000$ A

No. of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
1+N	10	10	569411	DS201 M B10 F10	2CSR275580R0105		0.2	1
		13	594314	DS201 M B13 F10	2CSR275580R0135		0.2	1
		16	582519	DS201 M B16 F10	2CSR275580R0165		0.2	1
	30	6	594413	DS201 M B6 F30	2CSR275580R1065		0.2	1
		10	582618	DS201 M B10 F30	2CSR275580R1105		0.2	1
		13	570813	DS201 M B13 F30	2CSR275580R1135		0.2	1
		16	595717	DS201 M B16 F30	2CSR275580R1165		0.2	1
		20	583912	DS201 M B20 F30	2CSR275580R1205		0.2	1
		25	572114	DS201 M B25 F30	2CSR275580R1255		0.2	1
		32	592112	DS201 M B32 F30	2CSR275580R1325		0.2	1
		40	580317	DS201 M B40 F30	2CSR275580R1405		0.2	1

DS201 M 10000 F   type, C characteristic



DS201 M

Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating earth fault currents; protection against indirect contact and additional protection against direct contact ($I_{\Delta n}=30$ mA). Specifically suitable for the protection of lines supplying single phase inverters.

Application: residential, commercial, industrial.

Standard: IEC/EN 61009-1; IEC/EN 61009-2-1; IEC/EN 62423

$I_{cn} = 10000$ A

No. of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
1+N	10	10	568513	DS201 M C10 F10	2CSR275580R0104		0.2	1
		13	593010	DS201 M C13 F10	2CSR275580R0134		0.2	1
		16	581215	DS201 M C16 F10	2CSR275580R0164		0.2	1
	30	6	580416	DS201 M C6 F30	2CSR275580R1064		0.2	1
		10	568612	DS201 M C10 F30	2CSR275580R1104		0.2	1
		13	595816	DS201 M C13 F30	2CSR275580R1134		0.2	1
		16	584018	DS201 M C16 F30	2CSR275580R1164		0.2	1
		20	572213	DS201 M C20 F30	2CSR275580R1204		0.2	1
		25	593119	DS201 M C25 F30	2CSR275580R1254		0.2	1
		32	581314	DS201 M C32 F30	2CSR275580R1324		0.2	1
		40	569510	DS201 M C40 F30	2CSR275580R1404		0.2	1

RCBOs

DS201 M 110V 10000 A  type, B characteristic



DS201 M 110V

Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact ($I\Delta n = 30 \text{ mA}$).

This particular series of devices has the minimum operating voltage of test button of 110 V and it is suitable for 230 V applications.

Application: residential, commercial, industrial.

Standard: IEC 61009-1; IEC 61009-2-1

$I_{cn} = 10000 \text{ A}$

No. of poles	Rated residual current $I\Delta n \text{ mA}$	Rated current $I_n \text{ A}$	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece	Pack unit
				Type code	Order code			
1+N	30	6	582410	DS201 M B6 A30 110V	2CSR275189R1065		0.2	1
		10	570615	DS201 M B10 A30 110V	2CSR275189R1105		0.2	1
		13	592013	DS201 M B13 A30 110V	2CSR275189R1135		0.2	1
		16	580218	DS201 M B16 A30 110V	2CSR275189R1165		0.2	1
		20	568414	DS201 M B20 A30 110V	2CSR275189R1205		0.2	1
		25	595519	DS201 M B25 A30 110V	2CSR275189R1255		0.2	1
		32	583714	DS201 M B32 A30 110V	2CSR275189R1325		0.2	1
		40	571919	DS201 M B40 A30 110V	2CSR275189R1405		0.2	1

DS201 M 110V 10000 A  type, C characteristic



DS201 M 110V

Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact ($I\Delta n = 30 \text{ mA}$).

This particular series of devices has the minimum operating voltage of test button of 110 V and it is suitable for 230 V applications.

Application: residential, commercial, industrial.

Standard: IEC 61009-1; IEC 61009-2-1

$I_{cn} = 10000 \text{ A}$

No. of poles	Rated residual current $I\Delta n \text{ mA}$	Rated current $I_n \text{ A}$	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece	Pack unit
				Type code	Order code			
1+N	30	6	570714	DS201 M C6 A30 110V	2CSR275189R1064		0.2	1
		10	595618	DS201 M C10 A30 110V	2CSR275189R1104		0.2	1
		13	583813	DS201 M C13 A30 110V	2CSR275189R1134		0.2	1
		15	427957	DS201 M C15 A30 110V	2CSR275189R1154		0.2	1
		16	572015	DS201 M C16 A30 110V	2CSR275189R1164		0.2	1
		20	592914	DS201 M C20 A30 110V	2CSR275189R1204		0.2	1
		25	581116	DS201 M C25 A30 110V	2CSR275189R1254		0.2	1
		32	569312	DS201 M C32 A30 110V	2CSR275189R1324		0.2	1
		40	594215	DS201 M C40 A30 110V	2CSR275189R1404		0.2	1

RCBOs

DS201T 6000 A type, C characteristic



DS201T

Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact ($I\Delta n=30\text{ mA}$).

Application: railway, rolling stock, traction.
Standard: IEC/EN 61009-1; IEC/EN 61009-2-1
 $I_{cn} = 6000\text{ A}$

No. of poles	Rated residual current $I\Delta n\text{ mA}$	Rated current $I_n\text{ A}$	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
1P+N	30	6	565215	DS201T C6 A30	2CSR255188R1064		0.2	1
		10	590019	DS201T C10 A30	2CSR255188R1104		0.2	1
		13	578215	DS201T C13 A30	2CSR255188R1134		0.2	1
		16	566410	DS201T C16 A30	2CSR255188R1164		0.2	1
		20	591313	DS201T C20 A30	2CSR255188R1204		0.2	1
		25	579519	DS201T C25 A30	2CSR255188R1254		0.2	1
		32	567714	DS201T C32 A30	2CSR255188R1324		0.2	1
		40	589914	DS201T C40 A30	2CSR255188R1404		0.2	1

RCBOs

DS201T 6000 A  type, K characteristics



DS201T

Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact ($I\Delta n=30$ mA).

Application: railway, rolling stock, traction.

Standard: IEC/EN 61009-1; IEC/EN 61009-2-1

$I_{cn} = 6000$ A

No. of poles	Rated residual current $I\Delta n$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
1P+N	30	6	589815	DS201T K6 A30	2CSR255188R1067		0.2	1
		10	578017	DS201T K10 A30	2CSR255188R1107		0.2	1
		13	566212	DS201T K13 A30	2CSR255188R1137		0.2	1
		16	587910	DS201T K16 A30	2CSR255188R1167		0.2	1
		20	576112	DS201T K20 A30	2CSR255188R1207		0.2	1
		25	564317	DS201T K25 A30	2CSR255188R1257		0.2	1
		32	591115	DS201T K32 A30	2CSR255188R1327		0.2	1
		40	579311	DS201T K40 A30	2CSR255188R1407		0.2	1

RCBOs

DS201T

6000

APR

type, C characteristic



DS201T

Function: protection against the effects of sinusoidal alternating and direct pulsating earth fault currents, providing an optimal trade-off between safety and continuity of service thanks to the resistance to unwanted tripping; protection against indirect contact and additional protection against direct contact ($I_{\Delta n}=30\text{ mA}$); protection and isolation of resistive and inductive loads.

Application: railway, rolling stock, traction.
Standard: IEC/EN 61009-1; IEC/EN 61009-2-1
 $I_{cn} = 6000\text{ A}$

No. of poles	Rated residual current $I_{\Delta n}\text{ mA}$	Rated current $I_n\text{ A}$	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
1P+N	30	6	567516	DS201T C6 APR30	2CSR255488R1064		0.2	1
		10	588610	DS201T C10 APR30	2CSR255488R1104		0.2	1
		13	576815	DS201T C13 APR30	2CSR255488R1134		0.2	1
		16	565017	DS201T C16 APR30	2CSR255488R1164		0.2	1
		20	589716	DS201T C20 APR30	2CSR255488R1204		0.2	1
		25	577911	DS201T C25 APR30	2CSR255488R1254		0.2	1
		32	566113	DS201T C32 APR30	2CSR255488R1324		0.2	1
		40	591016	DS201T C40 APR30	2CSR255488R1404		0.2	1

RCBOs

DS201T 6000 APR  type, B characteristic



DS201T

Function: protection against the effects of sinusoidal alternating and direct pulsating earth fault currents, providing an optimal compromise between safety and continuity of service, thanks to the resistance to unwanted tripping; protection against indirect contact and additional protection against direct contact ($I_{\Delta n}=30$ mA); protection and isolation of resistive and inductive loads.

Application: railway, rolling stock, traction.

Standard: IEC/EN 61009-1; IEC/EN 61009-2-1

$I_{cn} = 6000$ A

No. of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
1P+N	30	6	579212	DS201T B6 APR30	2CSR255488R1065		0.2	1
		10	567417	DS201T B10 APR30	2CSR255488R1105		0.2	1
		13	589617	DS201T B13 APR30	2CSR255488R1135		0.2	1
		16	577812	DS201T B16 APR30	2CSR255488R1165		0.2	1
		20	566014	DS201T B20 APR30	2CSR255488R1205		0.2	1
		25	590910	DS201T B25 APR30	2CSR255488R1255		0.2	1
		32	579113	DS201T B32 APR30	2CSR255488R1325		0.2	1
		40	567318	DS201T B40 APR30	2CSR255488R1405		0.2	1

RCBOs

DS201T 6000 A type, B characteristic



DS201T

Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact ($I_{\Delta n}=30\text{ mA}$).

Application: railway, rolling stock, traction.
Standard: IEC/EN 61009-1; IEC/EN 61009-2-1
 $I_{cn} = 6000\text{ A}$

No. of poles	Rated residual current $I_{\Delta n}\text{ mA}$	Rated current $I_n\text{ A}$	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
1P+N	30	6	578116	DS201T B6 A30	2CSR255188R1065		0.2	1
		10	566311	DS201T B10 A30	2CSR255188R1105		0.2	1
		13	591214	DS201T B13 A30	2CSR255188R1135		0.2	1
		16	579410	DS201T B16 A30	2CSR255188R1165		0.2	1
		20	567615	DS201T B20 A30	2CSR255188R1205		0.2	1
		25	588719	DS201T B25 A30	2CSR255188R1255		0.2	1
		32	576914	DS201T B32 A30	2CSR255188R1325		0.2	1
		40	565116	DS201T B40 A30	2CSR255188R1405		0.2	1

RCBOs

DS201 UL technical features

DS201 UL			
Standards		UL 1053, UL 1077, IEC 61009-1, IEC 61009-2-1	
Electrical features	Type (wave form of the earth leakage sensed)		A
	Number of poles		1P + N
	Rated current I_n	A	$6 \leq I_n \leq 40$
	Rated sensitivity $I_{\Delta n}$	A	0.03
	Rated operational voltage U_e	V	230-240
	Rated Insulation voltage U_i acc. to IEC/EN 60664-1	V	500 V AC
	Overvoltage category		III
	Pollution degree		2
	Operating voltage of circuit test U_t	V	110 – 277
	Rated frequency f	Hz	50/60
	Rated breaking capacity acc. to To UL 1053, IEC 61009-1, IEC 61009-2-1	I_{cn} A	6 000
	Rated breaking capacity acc. to IEC 60947-2	ultimate I_{cu}	kA 10
		service I_{cs}	kA 7.5
	Grid distance	mm	35
	Rated residual breaking capacity $I_{\Delta m}$ according to IEC 61009-1	$I_{\Delta m}$ A	6 000
	Rated impulse withstand voltage U_{imp} (1.2/50 μ s)	kV	4 kV
	Dielectric test voltage at ind. freq. for 1 min.	kV	2 kV (50 / 60Hz, 1 min.)
Mechanical features	Tripping characteristic	B: $3 I_n \leq I_n \leq 5 I_n$	■
		C: $5 I_n \leq I_n \leq 10 I_n$	■
		K: $10 I_n < I_n \leq 14 I_n$	■
	Rated residual breaking capacity $I_{\Delta m}$	A	6 000
	Surge current resistance (wave 8/20 μ s)		NA
	Housing Type		Insulation group I - II, RAL 7035
	Toggle Type		Insulation group II, Black RAL 9005, sealable in ON-OFF positions
	Contact position indication		Green/Red Window
	Earth fault trip indication		Blue flag on toggle
	Electrical Endurance	cycles (OFF-ON-OFF)	10000
	Mechanical Endurance	cycles (OFF-ON-OFF)	20000
	Protection degree acc. to EN 60529	housing	IP40
		terminals	IP20
	Resistance to Shock acc. to IEC 60068-2-27		25g - 2 shocks - 13ms
	Resistance to Vibrations acc. to IEC 60068-2-6		0.1 mm or 1 g - 20 cycles at 5...150...5 Hz
	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%
	Reference temperature for setting of thermal element	°C / °F	30 / 86
	Ambient temperature (with daily average $\leq +35$ °C)	°C / °F	-25...+55 / -13...+131
	Storage temperature	°C / °F	-40...+70 / -40...+158
Installation	Terminal type	top / bottom	Failsafe bi-directional cylinder-lift terminal (shock protected)
	Cross-section of conductors (IEC) solid cables	top / bottom	mm ² 25 / 10
	Cross-section of conductors (UL/CSA) solid cables		AWG 25 / 10
	Cross-section of conductors (IEC) stranded cables	top / bottom	mm ² 16 / 6
	Cross-section of conductors (UL/CSA) solid cables		AWG 16 / 6
	These terminals are not suitable for copper compact stranded conductors		
	Cross-section of busbars (IEC)	top / bottom	mm ² 10
	Cross-section of busbars (UL/CSA)		AWG 8
	Tightening torque	top / bottom	Nm 2.8
	Wire Stripping Length	mm	12
	Screwdriver		No. 2 Pozidrive
	Mounting Type		on DIN rail EN 60715 (35mm) by means of mounting clip
	Mounting position		Any
	Supply from		Top/Bottom terminals
Dimensions and weight	Dimensions (H x D x W)	mm / in	85 x 69 x 35 / 3.34 x 2.71 x 1.37
	Weight	g / lb	200 / 0.44
Combination with auxiliary elements	Combinable with accessories and auxiliaries	Auxiliary contact	yes
		Signal contact / auxiliary contact	yes
		Shunt trip	yes
		Auxiliary contact for bottom fitting	yes
		Undervoltage release	yes
		Overvoltage release	yes
		Motor operating device	yes

N.B The combination is mechanically compatible with but no UL approved.

RCBOs

DS201 UL $\boxed{6000}$ A $\boxed{\text{A}}$ type, B characteristic



DS201 UL

Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact ($I\Delta n=30$ mA).

This particular series of devices is UL & CSA approved and is a supplementary protector.

Application: residential, commercial, industrial.

Standard: UL 1053 & 1077, CSA C22.2 NO. 144, CSA C22.2 NO. 235

No. of poles	Rated residual current $I\Delta n$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
1+N	30	6	577614	DS201 B6 A30 UL	2CSR255187R1065		0.2	1
		10	565819	DS201 B10 A30 UL	2CSR255187R1105		0.2	1
		13	590712	DS201 B13 A30 UL	2CSR255187R1135		0.2	1
		16	578918	DS201 B16 A30 UL	2CSR255187R1165		0.2	1
		20	567170	DS201 B20 A30 UL	2CSR255187R1205		0.2	1
		30	576617	DS201 B30 A30 UL	2CSR255187R1305		0.2	1
		32	564812	DS201 B32 A30 UL	2CSR255187R1325		0.2	1
		35	588313	DS201 B35 A30 UL	2CSR255187R1355		0.2	1
		40	576518	DS201 B40 A30 UL	2CSR255187R1405		0.2	1



DS201 UL

DS201 UL $\boxed{6000}$ A $\boxed{\text{A}}$ type, C characteristic

Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact ($I\Delta n=30$ mA).

This particular series of devices is UL & CSA approved and is a supplementary protector.

Application: residential, commercial, industrial.

Standard: UL 1053 & 1077, CSA C22.2 NO. 144, CSA C22.2 NO. 235

No. of poles	Rated residual current $I\Delta n$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
1+N	30	6	588511	DS201 C6 A30 UL	2CSR255187R1064		0.2	1
		10	576716	DS201 C10 A30 UL	2CSR255187R1104		0.2	1
		13	564911	DS201 C13 A30 UL	2CSR255187R1134		0.2	1
		16	589518	DS201 C16 A30 UL	2CSR255187R1164		0.2	1
		20	577713	DS201 C20 A30 UL	2CSR255187R1204		0.2	1
		30	590811	DS201 C30 A30 UL	2CSR255187R1304		0.2	1
		32	579014	DS201 C32 A30 UL	2CSR255187R1324		0.2	1
		35	567219	DS201 C35 A30 UL	2CSR255187R1354		0.2	1
		40	589419	DS201 C40 A30 UL	2CSR255187R1404		0.2	1

RCBOs

DS201 UL 6000 A  type, K characteristic



DS201 UL

Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact ($I\Delta n=30$ mA).

This particular series of devices is UL & CSA approved and is a supplementary protector.

Application: residential, commercial, industrial.

Standard: UL 1053 & 1077, CSA C22.2 NO. 144, CSA C22.2 NO. 235

No. of poles	Rated residual current $I\Delta n$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
1+N	30	10	564713	DS201 K10 A30 UL	2CSR255187R1107		0.2	1
		13	589310	DS201 K13 A30 UL	2CSR255187R1137		0.2	1
		16	577515	DS201 K16 A30 UL	2CSR255187R1167		0.2	1
		20	565710	DS201 k20 A30 UL	2CSR255187R1207		0.2	1

RCBO DS301C

Slim solutions for complete protection

Easy to install

Bi-directional cylindrical terminals improve the level of safety and ease of connecting operations.

Reliable DIN-Rail clip

The top and bottom clips ensure a secure grip on the rail and a stable vertical position.

Clear terminal identification

To prevent misuses.

Test button

To verify the correct RCD functioning.

Laser printed information

The device information is laser printed to ensure readability over time.

Dedicated space for label

Clearly identify the protected circuits.

Contact position indicator (CPI)

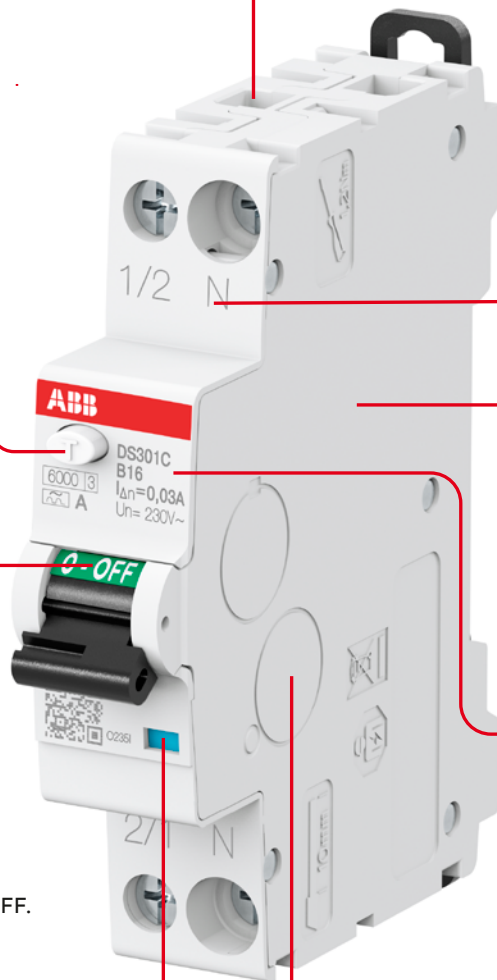
The toggle has a clear color that indicates the level position ON/OFF.

Earth fault indicator (DTI)

A dedicated window that changes from grey to blue to indicate if the trip is caused by an earth fault.

Combination with accessories

Interface to combine DS301C with DIN-Rail accessories.





Compactness

This voltage independent RCBO fits in one module width (17.8 mm²) only to guarantee its usage in retrofit enhancement and saving space in new consumer units.



Easy installation

The failsafe terminals available on DS301C make easier the supply operation in parallel with cables up to 16 mm² and busbars 10 mm² and make sure the cable is correctly fixed in the terminal.

Supply is possible either from top or bottom side.



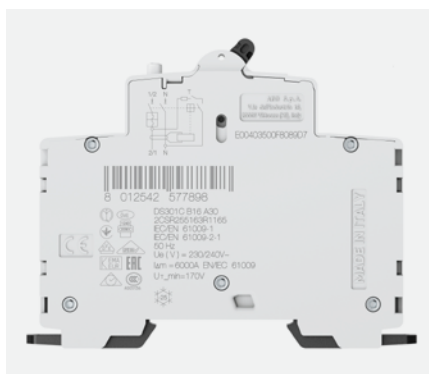
Display the operational status

Easy troubleshooting and reduced downtime for maintenance operations thanks to the blue indicator, that signals the differential tripping to immediately identify any earth fault and the contact position indicator on toggle (CPI) that helps to always know the status of the contacts (red: closed contacts, green: open contacts).



Product identification

To easier the access to all DS301C product information (performance, certificates, troubleshooting...) a laser printed QR code is on the front face to reach the product webpage also when the product is already installed on the Din rail.



Additional laser printing

Additional information are laser printed on the lateral side of the device, including also the wiring diagram and the EAN code respectively for an easier installation and for an easier stock management.



Mounting clip

Stable fixing on DIN rail, easy and fast mounting and dismantling operations thanks to the standard mounting clip.

RCBO DS301C

Slim solutions for complete protection



		DS301C	DS301CT
Electrical features	Standards	IEC/EN 61009-1; IEC/EN 61009-2-1	IEC/EN 61009-1; IEC/EN 61009-2-1
	Type (wave form of the earth leakage sensed)	A-AC, F, G	A
	Number of poles	1P + N (1 pole protected)	1P + N (1 pole protected)
	Rated current I_n	$6 \leq I_n \leq 20$	$6 \leq I_n \leq 20$
	Rated sensitivity $I_{\Delta n}$	0.03	0.03
	Rated operational voltage U_e	230-240	230-240
	Rated Insulation voltage U_i acc. to IEC/EN 60664-1	500 V AC	500 V AC
	Overvoltage category	III	III
	Pollution degree	2	2
	Operating voltage of circuit test U_t	170 – 264 (AC)	170 – 264 (AC)
	Rated frequency f	50	50
	Frequency range of residual current	1 - 1.000 Hz (F & G Type)	-
	Rated short circuit breaking capacity acc. to IEC/EN 61009-1	6000	6000
	Rated breaking capacity ultimate I_{cu}	6	6
	acc. To IEC/EN 60947-2 (only service I_{cs} referring to short circuit test)	6	6
	Grid distance	35	35
	Rated residual breaking capacity IDM according to EN 61009-1	6000 A (4500 A for I_n 20 A)	6000 A (4500 A for I_n 20 A)
	Rated residual breaking capacity IDM according to IEC 61009-1	4500 A (3000 A for I_n 20 A)	4500 A (3000 A for I_n 20 A)
	Rated impulse withstand voltage U_{imp} (1.2/50 μ s)	4	4
	Dielectric test voltage at ind. Freq. For 1 min.	2.5 (50 Hz, 1 min).	2.5 (50 Hz, 1 min).
	Thermomagnetic release— B: $3 I_n \leq I_n \leq 5 I_n$	■	■
	Characteristic C: $5 I_n \leq I_n \leq 10 I_n$	■	■
	Energy limiting class acc. To EN 61009-1	3	3
	Surge current resistance (wave 8/20 μ s)	NA	NA
	Powerloss (average per pole)	1.42	1.42
Mechanical features	Housing Type	Insulation group 1-II, RAL 7035	Insulation group 1-II, RAL 7035
	Toggle Type	Insulation group II, Black RAL 9005, sealable in ON-OFF positions	Insulation group II, Black RAL 9005, sealable in ON-OFF positions
	Contact position indication	On toggle	On toggle
	Earth fault trip indication	Blue flag window	Blue flag window
	Electrical Endurance cycles (OFF-ON-OFF)	7000	7000
	Mechanical Endurance cycles (OFF-ON-OFF)	7000	7000
	Protection degree acc. To EN 60529 housing	IP40	IP40
	terminals	IP20	IP20
	Resistance to Shock acc. to IEC 60068-2-27	25g—2 shocks—13 ms	25g—2 shocks—13ms
	Resistance to Vibrations acc. to IEC 60068-2-6	0.1 mm or 1 g—20 cycles at 5...150...5 Hz	0.1 mm or 1 g—20 cycles at 5...150...5 Hz Category 1, Class B according to IEC 61373
	Environmental conditions (damp heat) acc. IEC/EN 60068-2-30	28 cycles with 55°C/90-96% and 25°C/95-100%	28 cycles with 55°C/90-96% and 25°C/95-100%
	Reference temperature for tripping characteristics	30	30
	Ambient temperature (with daily average $\leq +35^\circ\text{C}$)	-25...+55	-25...+55
	Storage temperature	-40...+70	-40...+70

RCBO DS301C

Slim solutions for complete protection



			DS301C	DS301CT
Installation	Terminal type	top / bottom	Faisafe	Faisafe
	Cross-section of conductors (IEC)	top / bottom	mm ² 16/16	16/16
	Cross-section of busbars (IEC)	top / bottom	mm ² 10/10	10/10
	Tightening torque	top / bottom	Nm 1.2	1.2
	Wire Stripping Length		mm 10	10
	Screwdriver		No. 2 Pozidrive	No. 2 Pozidrive
	Mounting Type		on DIN rail EN 60715 (35 mm) by means of mounting clip	on DIN rail EN 60715 (35 mm) by means of mounting clip
	Mounting position		Any	Any
Dimension and weight	Supply from		Top/Bottom terminals	Top/Bottom terminals
	Dimensions (H x D x W)	mm	92 x 68 x 17.6	92 x 68 x 17.6
Combination with auxiliary elements by mean of Interface contact SCC-IH6R	Weight	g	110	110
	Combinable with accessories and auxiliaries	Auxiliary contact	Yes	Yes
		Signal contact / auxiliary contact	Yes	Yes
		Shunt Trip	Yes	Yes
		Auxiliary contact for bottom fitting	No	No
		Undervoltage release	Yes	Yes
		Overvoltage release	Yes	Yes
		Motor operating device	No	No

RCBO DS301C

DS301C 6000 A  type, B characteristic



DS301C B16 A30

Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact ($I_{\Delta n} = 30 \text{ mA}$).

Application: Residential, Commercial, Building, Industrial.

Standard: IEC 61009-1; IEC 61009-2-1

$I_{cn} = 6000 \text{ A}$

No. of poles	Rated residual current $I_{\Delta n} \text{ mA}$	Rated current $I_n \text{ A}$	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece	Pack unit
				Type code	Order code			
1+N	30	6	359357	DS301C B6 A30	2CSR255163R1065		0.1	1
1+N	30	10	359456	DS301C B10 A30	2CSR255163R1105		0.1	1
1+N	30	10	359555	DS301C B10 A30	2CSR255163U1105		0.1	96
1+N	30	13	359654	DS301C B13 A30	2CSR255163R1135		0.1	1
1+N	30	13	359753	DS301C B13 A30	2CSR255163U1135		0.1	96
1+N	30	16	359852	DS301C B16 A30	2CSR255163R1165		0.1	1
1+N	30	16	359951	DS301C B16 A30	2CSR255163U1165		0.1	96
1+N	30	20	360056	DS301C B20 A30	2CSR255163R1205		0.1	1

DS301C 6000 A  type, C characteristic



DS301C C16 A30

Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact ($I_{\Delta n} = 30 \text{ mA}$).

Application: Residential, Commercial, Building, Industrial.

Standard: IEC 61009-1; IEC 61009-2-1

$I_{cn} = 6000 \text{ A}$

No. of poles	Rated residual current $I_{\Delta n} \text{ mA}$	Rated current $I_n \text{ A}$	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece	Pack unit
				Type code	Order code			
1+N	30	6	360957	DS301C C6 A30	2CSR255163R1064		0.1	1
1+N	30	10	361053	DS301C C10 A30	2CSR255163R1104		0.1	1
1+N	30	10	361152	DS301C C10 A30	2CSR255163U1104		0.1	96
1+N	30	13	361251	DS301C C13 A30	2CSR255163R1134		0.1	1
1+N	30	13	361350	DS301C C13 A30	2CSR255163U1134		0.1	96
1+N	30	16	361459	DS301C C16 A30	2CSR255163R1164		0.1	1
1+N	30	16	361558	DS301C C16 A30	2CSR255163U1164		0.1	96
1+N	30	20	361657	DS301C C20 A30	2CSR255163R1204		0.1	1

RCBO DS301C

DS301C 6000 AC $\sphericalangle$ type, B characteristic



DS301C B16 AC30

Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact ($I_{\Delta n} = 30 \text{ mA}$).

Application: Residential, Commercial, Building, Industrial.

Standard: IEC 61009-1; IEC 61009-2-1

$I_{cn} = 6000 \text{ A}$

No. of poles	Rated residual current $I_{\Delta n} \text{ mA}$	Rated current $I_n \text{ A}$	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece	Pack unit
				Type code	Order code			
1+N	30	6	360155	DS301C B6 AC30	2CSR255063R1065		0.1	1
1+N	30	10	360254	DS301C B10 AC30	2CSR255063R1105		0.1	1
1+N	30	10	360353	DS301C B10 AC30	2CSR255063U1105		0.1	96
1+N	30	13	360452	DS301C B13 AC30	2CSR255063R1135		0.1	1
1+N	30	13	360551	DS301C B13 AC30	2CSR255063U1135		0.1	96
1+N	30	16	360650	DS301C B16 AC30	2CSR255063R1165		0.1	1
1+N	30	16	360759	DS301C B16 AC30	2CSR255063U1165		0.1	96
1+N	30	20	360858	DS301C B20 AC30	2CSR255063R1205		0.1	1

DS301C 6000 AC $\sphericalangle$ type, C characteristic



DS301C C16 AC30

Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact ($I_{\Delta n} = 30 \text{ mA}$).

Application: Residential, Commercial, Building, Industrial.

Standard: IEC 61009-1; IEC 61009-2-1

$I_{cn} = 6000 \text{ A}$

No. of poles	Rated residual current $I_{\Delta n} \text{ mA}$	Rated current $I_n \text{ A}$	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece	Pack unit
				Type code	Order code			
1+N	30	6	361756	DS301C C6 AC30	2CSR255063R1064		0.1	1
1+N	30	10	361855	DS301C C10 AC30	2CSR255063R1104		0.1	1
1+N	30	10	361954	DS301C C10 AC30	2CSR255063U1104		0.1	96
1+N	30	13	362050	DS301C C13 AC30	2CSR255063R1134		0.1	1
1+N	30	13	362159	DS301C C13 AC30	2CSR255063U1134		0.1	96
1+N	30	16	362258	DS301C C16 AC30	2CSR255063R1164		0.1	1
1+N	30	16	362357	DS301C C16 AC30	2CSR255063U1164		0.1	96
1+N	30	20	362456	DS301C C20 AC30	2CSR255063R1204		0.1	1

RCBO DS301C

DS301C 6000 F   type, B characteristic



DS301C B16 F30

Function: protection of end user single-phase circuits against overload and shortcircuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact ($I_{\Delta n} = 30 \text{ mA}$).

Application: Residential, Commercial, Building, Industrial.

Standard: IEC 61009-1; IEC 61009-2-1

$I_{cn} = 6000 \text{ A}$

No. of poles	Rated residual current $I_{\Delta n} \text{ mA}$	Rated current $I_n \text{ A}$	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
				Type code	Order code			
1+N	30	6	8012542722953	DS301C B6 F30	2CSR255563R1065		0.11	1
1+N	30	10	8012542723059	DS301C B10 F30	2CSR255563R1105		0.11	1
1+N	30	13	8012542723158	DS301C B13 F30	2CSR255563R1135		0.11	1
1+N	30	16	8012542723257	DS301C B16 F30	2CSR255563R1165		0.11	1
1+N	30	20	8012542723356	DS301C B20 F30	2CSR255563R1205		0.11	1

RCBO DS301C

DS301C 6000 F   type, C characteristic



DS301C C16 F30

Function: protection of end user single-phase circuits against overload and shortcircuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact ($I_{\Delta n} = 30 \text{ mA}$).

Application: Residential, Commercial, Building, Industrial.

Standard: IEC 61009-1; IEC 61009-2-1

$I_{cn} = 6000 \text{ A}$

No. of poles	Rated residual current $I_{\Delta n} \text{ mA}$	Rated current $I_n \text{ A}$	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
				Type code	Order code			
1+N	30	6	8012542723455	DS301C C6 F30	2CSR255563R1064		0.11	1
1+N	30	10	8012542723554	DS301C C10 F30	2CSR255563R1104		0.11	1
1+N	30	13	8012542723653	DS301C C13 F30	2CSR255563R1134		0.11	1
1+N	30	16	8012542723752	DS301C C16 F30	2CSR255563R1164		0.11	1
1+N	30	20	8012542723851	DS301C C20 F30	2CSR255563R1204		0.11	1

RCBO DS301C

DS301C 6000 G  type, B characteristic



DS301C B16 G30

Function: protection of end user single-phase circuits against overload and shortcircuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact ($I_{\Delta n} = 30 \text{ mA}$).

Application: Residential, Commercial, Building, Industrial.

Standard: IEC 61009-1; IEC 61009-2-1

$I_{cn} = 6000 \text{ A}$

No. of poles	Rated residual current $I_{\Delta n} \text{ mA}$	Rated current $I_n \text{ A}$	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit
				Type code	Order code			
1+N	30	6	8012542723950	DS301C B6 G30	2CSR255463R1065		0.11	1
1+N	30	10	8012542724056	DS301C B10 G30	2CSR255463R1105		0.11	1
1+N	30	13	8012542724155	DS301C B13 G30	2CSR255463R1135		0.11	1
1+N	30	16	8012542724254	DS301C B16 G30	2CSR255463R1165		0.11	1
1+N	30	20	8012542724353	DS301C B20 G30	2CSR255463R1205		0.11	1

RCBO DS301C

DS301C 6000 G  type, C characteristic



DS301C C16 G30

Function: protection of end user single-phase circuits against overload and shortcircuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact ($I_{\Delta n} = 30 \text{ mA}$).

Application: Residential, Commercial, Building, Industrial.

Standard: IEC 61009-1; IEC 61009-2-1

$I_{cn} = 6000 \text{ A}$

No. of poles	Rated residual current $I_{\Delta n} \text{ mA}$	Rated current $I_n \text{ A}$	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit
				Type code	Order code			
1+N	30	6	8012542724452	DS301C C6 G30	2CSR255463R1064		0.11	1
1+N	30	10	8012542724551	DS301C C10 G30	2CSR255463R1104		0.11	1
1+N	30	13	8012542724650	DS301C C13 G30	2CSR255463R1134		0.11	1
1+N	30	16	8012542724759	DS301C C16 G30	2CSR255463R1164		0.11	1
1+N	30	20	8012542724858	DS301C C20 G30	2CSR255463R1204		0.11	1

RCBO DS301C

DS301C T 6000 A  type, B characteristic



DS301CT B16 A30

Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact ($I_{\Delta n} = 30 \text{ mA}$). This series is dedicated to traction and meet the hazard level R22,R23 and R26/HL3.

Application: Traction.

Standard: IEC 61009-1; IEC 61009-2-1; EN45545-2:2013+A1:2015

$I_{cn} = 6000 \text{ A}$

No. of poles	Rated residual current $I_{\Delta n} \text{ mA}$	Rated current $I_n \text{ A}$	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
1+N	30	6	362555	DS301CT B6 A30	2CSR255164R1065		0.1	1
1+N	30	10	362654	DS301CT B10 A30	2CSR255164R1105		0.1	1
1+N	30	13	362753	DS301CT B13 A30	2CSR255164R1135		0.1	1
1+N	30	16	362852	DS301CT B16 A30	2CSR255164R1165		0.1	1
1+N	30	20	362951	DS301CT B20 A30	2CSR255164R1205		0.1	1

DS301C T 6000 A  type, C characteristic



DS301CT C16 A30

Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact ($I_{\Delta n} = 30 \text{ mA}$). This series is dedicated to traction and meet the hazard level R22,R23 and R26/HL3.

Application: Traction.

Standard: IEC 61009-1; IEC 61009-2-1; EN45545-2:2013+A1:2015

$I_{cn} = 6000 \text{ A}$

No. of poles	Rated residual current $I_{\Delta n} \text{ mA}$	Rated current $I_n \text{ A}$	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
1+N	30	6	363057	DS301CT C6 A30	2CSR255164R1064		0.1	1
1+N	30	10	363156	DS301CT C10 A30	2CSR255164R1104		0.1	1
1+N	30	13	363255	DS301CT C13 A30	2CSR255164R1134		0.1	1
1+N	30	16	363354	DS301CT C16 A30	2CSR255164R1164		0.1	1
1+N	30	20	363453	DS301CT C20 A30	2CSR255164R1204		0.1	1

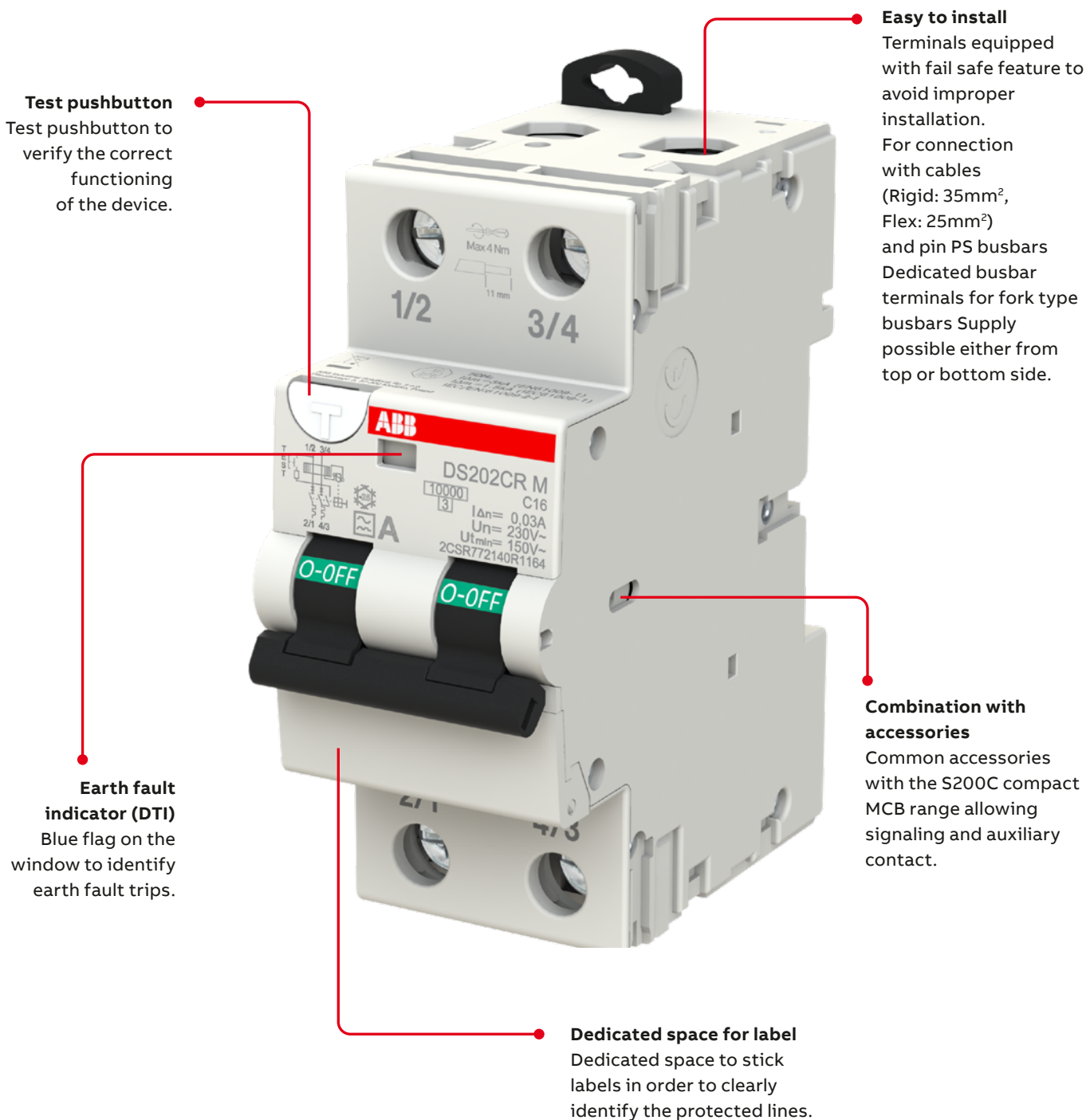
Notes



DS202CR

The details make the difference.

A new range designed to ensure efficiency and protection.



RCBOs

DS202CR technical features

			DS202CR	DS202CR M	DS202CR M 110V
Standards			IEC/EN 61009-1; IEC/EN 61009-2-1		IEC 61009-1; IEC 61009-2-1
Electrical features	Type (wave form of the earth leakage sensed)		A	A, APR	A
	Number of poles		2P	2P	2P
	Rated current I_n	A	$6 \leq I_n \leq 40$	$6 \leq I_n \leq 40$	$6 \leq I_n \leq 40$
	Rated sensitivity ΔI_n	A	0.03-0.3	0.01-0.03-0.3	0.03
	Rated operational voltage U_e	V	230	230	110
	Rated Insulation voltage U_i acc. to IEC/EN 60664-1	V	440	440	440
	Overvoltage category		III	III	III
	Pollution degree		3	3	3
	Operating voltage of circuit test U_t	V	117 (150 for 30 mA) - 254	117 (150 for 30 mA) - 254	93-135
	Rated frequency f	Hz	50	50	50/60
	Rated short circuit breaking capacity acc. to IEC/EN 61009-1	I_{cn}	6000	10000	10000
	Rated short circuit breaking capacity acc. to IEC/EN 60947-2 (only referring to internal short circuit test)	ultimate I_{cu}	kA	10	10
		service I_{cs}	kA	6	7.5
	Grid distance	mm	35 (for $I_n < 40$), 60 (for $I_n = 40$)	35 (for $I_n < 40$), 60 (for $I_n = 40$)	35 (for $I_n < 40$), 60 (for $I_n = 40$)
	Rated residual breaking capacity $I_{\Delta m}$ according to EN 61009-1	kA	3	3	3
	Rated impulse withstand voltage U_{imp} (1.2/50 μ s)	kV	4	4	4
	Dielectric test voltage at ind. freq. for 1 min.	kV	2.5	2.5	2.5
	Tripping characteristic	B: $3 I_n \leq I_n \leq 5 I_n$	■	■	
		C: $5 I_n \leq I_n \leq 10 I_n$	■	■	■
	Energy limiting class acc. to EN 61009-1		3	3	3
	Surge current resistance (wave 8/20)	A	250 for A version; 3000 for APR version		
Mechanical features	Toggle Type		black sealable in ON-OFF position		
	Contact position indication (CPI)		CPI on toggle (green/red)		
	Earth fault trip indication		on window (blue)		
	Electrical Endurance	cycles (OFF-ON-OFF)	10000	10000	10000
	Mechanical Endurance	cycles (OFF-ON-OFF)	15000	15000	15000
	Protection degree acc. to EN 60529	housing	IP40	IP40	IP40
		terminals	IP20	IP20	IP20
	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%		
	Reference temperature for tripping characteristics	°C	30	30	30
	Ambient temperature (with daily average $\leq +35$ °C)	°C	-25...+55	-25...+55	-25...+55
	Storage temperature	°C	-40...+70	-40...+70	-40...+70
Installation	Terminal type	top / bottom	failsafe cage terminal		
	Cross-section of conductors	top / bottom	mm ²	25/25 flexible; 35/35 rigid	25/25 flexible; 35/35 rigid
	Cross-section of busbars	top / bottom	mm ²	10/10	10/10
	Tightening torque		Nm	4 (max.)	4 (max.)
	Wire Stripping Length		mm	11	11
	Screwdriver			Nr. 2 Pozidriv	Nr. 2 Pozidriv
	Mounting type			on DIN rail EN 60715 (35mm) by means of mounting clip	
	Mounting position			Any	Any
Dimensions and weight	Dimensions (H x D x W)	mm	86 x 72 x 36	86 x 72 x 36	86 x 72 x 36
	Weight	g	220	220	220
Combination with auxiliary elements	Auxiliary contact		yes	yes	yes
	Auxiliary/Signal contact		yes	yes	yes

RCBOs

DS202CR series **6000** A  type, B characteristic



DS202CR

DS202CR A type, B characteristic

Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact ($I_{\Delta n}=30$ mA).

Application: residential, commercial, industrial.

Standard: IEC/EN 61009-1; IEC/EN 61009-2-1

$I_{cn} = 6\,000$ A

Number of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 402290 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
2	30	6	3033660	DS202CR B6 A30	2CSR752140R1065		0,245	1
		10	3033684	DS202CR B10 A30	2CSR752140R1105		0,245	1
		13	3033707	DS202CR B13 A30	2CSR752140R1135		0,245	1
		16	3033721	DS202CR B16 A30	2CSR752140R1165		0,245	1
		20	3033745	DS202CR B20 A30	2CSR752140R1205		0,245	1
		25	3033769	DS202CR B25 A30	2CSR752140R1255		0,245	1
		32	3033783	DS202CR B32 A30	2CSR752140R1325		0,245	1
		40	3033806	DS202CR B40 A30	2CSR752140R1405		0,245	1
	300	6	3033820	DS202CR B6 A300	2CSR752140R3065		0,245	1
		10	3033844	DS202CR B10 A300	2CSR752140R3105		0,245	1
		13	3033868	DS202CR B13 A300	2CSR752140R3135		0,245	1
		16	3033882	DS202CR B16 A300	2CSR752140R3165		0,245	1
		20	3033905	DS202CR B20 A300	2CSR752140R3205		0,245	1
		25	3033929	DS202CR B25 A300	2CSR752140R3255		0,245	1
		32	3033943	DS202CR B32 A300	2CSR752140R3325		0,245	1
		40	3033967	DS202CR B40 A300	2CSR752140R3405		0,245	1

RCBOs

DS202CR series 6000 A  type, C characteristic



DS202CR

DS202CR A type, C characteristic

Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact ($I_{\Delta n}=30$ mA).

Application: residential, commercial, industrial.

Standard: IEC/EN 61009-1; IEC/EN 61009-2-1

$I_{cn} = 6\,000$ A

Number of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 402290 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
2	30	6	3033653	DS202CR C6 A30	2CSR752140R1064		0,245	1
		10	3033677	DS202CR C10 A30	2CSR752140R1104		0,245	1
		13	3033691	DS202CR C13 A30	2CSR752140R1134		0,245	1
		16	3033714	DS202CR C16 A30	2CSR752140R1164		0,245	1
		20	3033738	DS202CR C20 A30	2CSR752140R1204		0,245	1
		25	3033752	DS202CR C25 A30	2CSR752140R1254		0,245	1
		32	3033776	DS202CR C32 A30	2CSR752140R1324		0,245	1
		40	3033790	DS202CR C40 A30	2CSR752140R1404		0,245	1
	300	6	3033813	DS202CR C6 A300	2CSR752140R3064		0,245	1
		10	3033837	DS202CR C10 A300	2CSR752140R3104		0,245	1
		13	3033851	DS202CR C13 A300	2CSR752140R3134		0,245	1
		16	3033875	DS202CR C16 A300	2CSR752140R3164		0,245	1
		20	3033899	DS202CR C20 A300	2CSR752140R3204		0,245	1
		25	3033912	DS202CR C25 A300	2CSR752140R3254		0,245	1
		32	3033936	DS202CR C32 A300	2CSR752140R3324		0,245	1
		40	3033950	DS202CR C40 A300	2CSR752140R3404		0,245	1

RCBOs

DS202CR M series 10000 A  type, B characteristic



DS202CR M

DS202CR M A type, B characteristic

Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact ($I_{\Delta n}=30$ mA).

Application: residential, commercial, industrial.

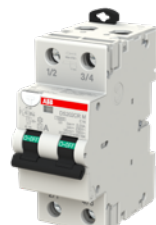
Standard: IEC/EN 61009-1; IEC/EN 61009-2-1

$I_{cn} = 10\,000$ A

Number of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 402290 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
2	10	10	3034292	DS202CR M B10 A10	2CSR772140R0105		0,245	1
		13	3034315	DS202CR M B13 A10	2CSR772140R0135		0,245	1
		16	3034339	DS202CR M B16 A10	2CSR772140R0165		0,245	1
	30	6	3034377	DS202CR M B6 A30	2CSR772140R1065		0,245	1
		10	3034414	DS202CR M B10 A30	2CSR772140R1105		0,245	1
		13	3034452	DS202CR M B13 A30	2CSR772140R1135		0,245	1
		16	3034490	DS202CR M B16 A30	2CSR772140R1165		0,245	1
		20	3034537	DS202CR M B20 A30	2CSR772140R1205		0,245	1
		25	3034575	DS202CR M B25 A30	2CSR772140R1255		0,245	1
		32	3034612	DS202CR M B32 A30	2CSR772140R1325		0,245	1
		40	3034636	DS202CR M B40 A30	2CSR772140R1405		0,245	1
	300	6	3034650	DS202CR M B6 A300	2CSR772140R3065		0,245	1
		10	3034674	DS202CR M B10 A300	2CSR772140R3105		0,245	1
		13	3034698	DS202CR M B13 A300	2CSR772140R3135		0,245	1
		16	3034711	DS202CR M B16 A300	2CSR772140R3165		0,245	1
		20	3034735	DS202CR M B20 A300	2CSR772140R3205		0,245	1
		25	3034759	DS202CR M B25 A300	2CSR772140R3255		0,245	1
		32	3034773	DS202CR M B32 A300	2CSR772140R3325		0,245	1
		40	3034797	DS202CR M B40 A300	2CSR772140R3405		0,245	1

RCBOs

DS202CR M series $\boxed{10000}$ A  type, C characteristic



DS202CR M

DS202CR M A type, C characteristic

Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact ($I_{\Delta n}=30$ mA).

Application: residential, commercial, industrial.

Standard: IEC/EN 61009-1; IEC/EN 61009-2-1

$I_{cn} = 10\,000$ A

Number of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 402290 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
2	10	13	3034308	DS202CR M C13 A10	2CSR772140R0134		0,245	1
		16	3034322	DS202CR M C16 A10	2CSR772140R0164		0,245	1
	30	6	3034360	DS202CR M C6 A30	2CSR772140R1064		0,245	1
		10	3034407	DS202CR M C10 A30	2CSR772140R1104		0,245	1
		13	3034445	DS202CR M C13 A30	2CSR772140R1134		0,245	1
		16	3034483	DS202CR M C16 A30	2CSR772140R1164		0,245	1
		20	3034520	DS202CR M C20 A30	2CSR772140R1204		0,245	1
		25	3034568	DS202CR M C25 A30	2CSR772140R1254		0,245	1
		32	3034605	DS202CR M C32 A30	2CSR772140R1324		0,245	1
		40	3034629	DS202CR M C40 A30	2CSR772140R1404		0,245	1
	300	6	3034643	DS202CR M C6 A300	2CSR772140R3064		0,245	1
		10	3034667	DS202CR M C10 A300	2CSR772140R3104		0,245	1
		13	3034681	DS202CR M C13 A300	2CSR772140R3134		0,245	1
		16	3034704	DS202CR M C16 A300	2CSR772140R3164		0,245	1
		20	3034728	DS202CR M C20 A300	2CSR772140R3204		0,245	1
		25	3034742	DS202CR M C25 A300	2CSR772140R3254		0,245	1
		32	3034766	DS202CR M C32 A300	2CSR772140R3324		0,245	1
		40	3034780	DS202CR M C40 A300	2CSR772140R3404		0,245	1

RCBOs

DS202CR M series 10000 A  APR type, B characteristic



DS202CR M APR

DS202CR M APR type, B characteristic

Function: protection against the effects of sinusoidal alternating and direct pulsating earth fault currents, providing an optimal compromise between safety and continuity of service, thanks to the resistance to unwanted tripping; protection against indirect contact and additional protection against direct contact ($I_{\Delta n}=30$ mA).

Application: residential, commercial, industrial.

Standard: IEC/EN 61009-1; IEC/EN 61009-2-1

$I_{cn} = 10\,000$ A

Number of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 402290 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
2	30	6	3035206	DS202CR M B6 APR30	2CSR772440R1065		0,245	1
		10	3035220	DS202CR M B10 APR30	2CSR772440R1105		0,245	1
		13	3035244	DS202CR M B13 APR30	2CSR772440R1135		0,245	1
		16	3035268	DS202CR M B16 APR30	2CSR772440R1165		0,245	1
		20	3035282	DS202CR M B20 APR30	2CSR772440R1205		0,245	1
		25	3035305	DS202CR M B25 APR30	2CSR772440R1255		0,245	1
		32	3035329	DS202CR M B32 APR30	2CSR772440R1325		0,245	1
		40	3035343	DS202CR M B40 APR30	2CSR772440R1405		0,245	1
	300	6	3035350	DS202CR M B6 APR300	2CSR772440R3065		0,245	1
		10	3035367	DS202CR M B10 APR300	2CSR772440R3105		0,245	1
		13	3035374	DS202CR M B13 APR300	2CSR772440R3135		0,245	1
		16	3035381	DS202CR M B16 APR300	2CSR772440R3165		0,245	1
		20	3035398	DS202CR M B20 APR300	2CSR772440R3205		0,245	1
		25	3035404	DS202CR M B25 APR300	2CSR772440R3255		0,245	1
		32	3035411	DS202CR M B32 APR300	2CSR772440R3325		0,245	1
		40	3035428	DS202CR M B40 APR300	2CSR772440R3405		0,245	1

RCBOs

DS202CR M series 10000 APR type, C characteristic



DS202CR M APR

DS202CR M APR type, C characteristic

Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact ($I_{\Delta n}=30$ mA).

Application: residential, commercial, industrial.

Standard: IEC/EN 61009-1; IEC/EN 61009-2-1

$I_{cn} = 10\,000$ A

Number of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 402290 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
2	30	6	3035190	DS202CR M C6 APR30	2CSR772440R1064		0,245	1
		10	3035213	DS202CR M C10 APR30	2CSR772440R1104		0,245	1
		13	3035237	DS202CR M C13 APR30	2CSR772440R1134		0,245	1
		16	3035251	DS202CR M C16 APR30	2CSR772440R1164		0,245	1
		20	3035275	DS202CR M C20 APR30	2CSR772440R1204		0,245	1
		25	3035299	DS202CR M C25 APR30	2CSR772440R1254		0,245	1
		32	3035312	DS202CR M C32 APR30	2CSR772440R1324		0,245	1
		40	3035336	DS202CR M C40 APR30	2CSR772440R1404		0,245	1

RCBOs

DS202CR M 110V series 10000 A  type, C characteristic



DS202CR M 110V

DS202CR M 110V A type, C characteristic

Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact ($I_{\Delta n} = 30 \text{ mA}$).

This particular series of devices has the minimum operating voltage of test button of 93V and it is suitable for 110 V applications.

Application: marine.

Standard: IEC 61009-1; IEC 61009-2-1

$I_{cn} = 10\,000 \text{ A}$

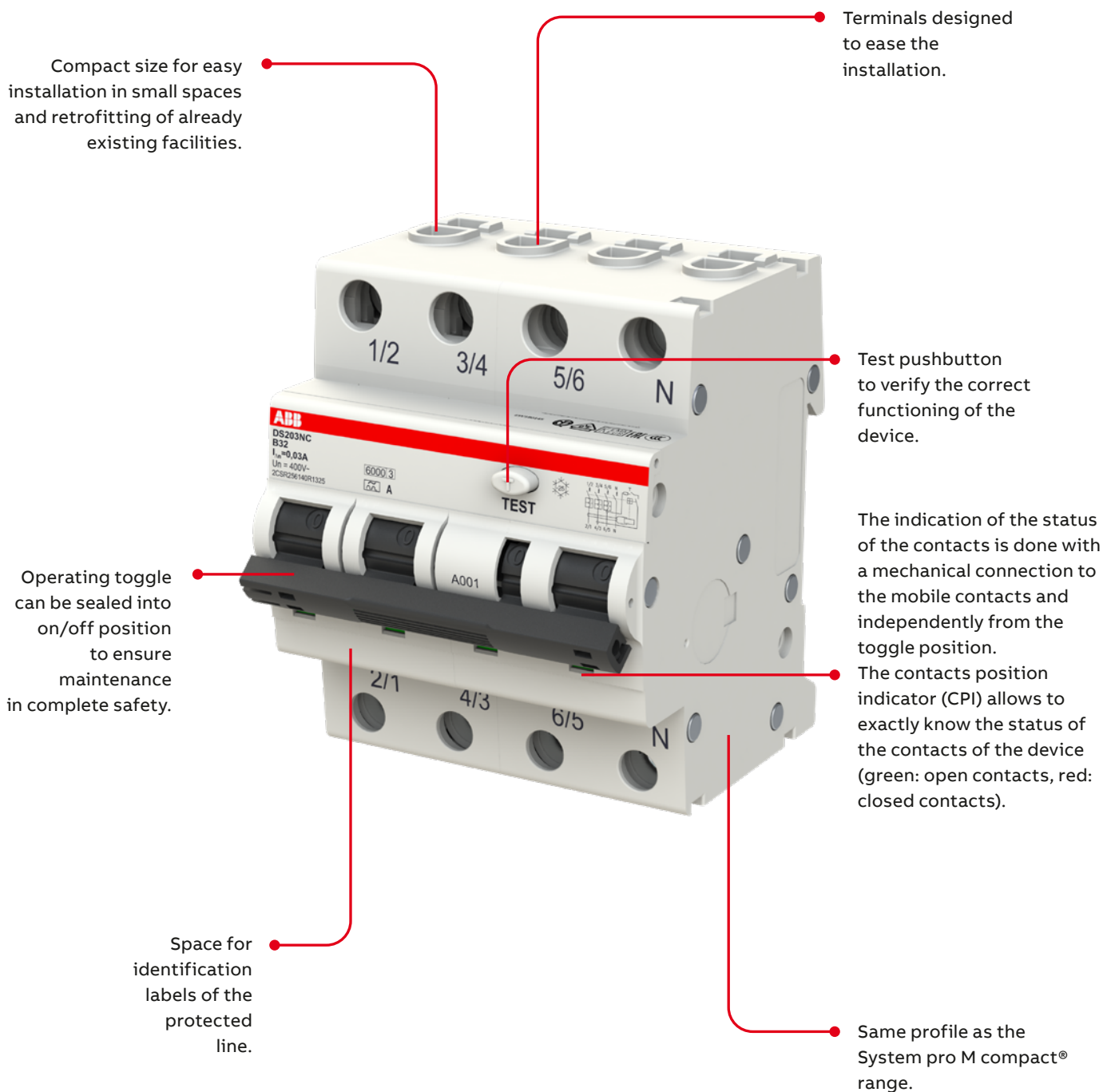
Number of poles	Rated residual current $I_{\Delta n} \text{ mA}$	Rated current $I_n \text{ A}$	Bbn 402290 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
2	30	6	3035060	DS202CRM C6 A30 110V	2CSR772199R1064		0,245	1
		10	3035077	DS202CRM C10 A30 110V	2CSR772199R1104		0,245	1
		13	3035084	DS202CRM C13 A30 110V	2CSR772199R1134		0,245	1
		15	3035091	DS202CRM C15 A30 110V	2CSR772199R1154		0,245	1
		16	3035107	DS202CRM C16 A30 110V	2CSR772199R1164		0,245	1
		20	3035114	DS202CRM C20 A30 110V	2CSR772199R1204		0,245	1
		25	3035121	DS202CRM C25 A30 110V	2CSR772199R1254		0,245	1
		32	3035138	DS202CRM C32 A30 110V	2CSR772199R1324		0,245	1
		40	3035145	DS202CRM C40 A30 110V	2CSR772199R1404		0,245	1

Notes



RCBO DS203NC. The effective choice

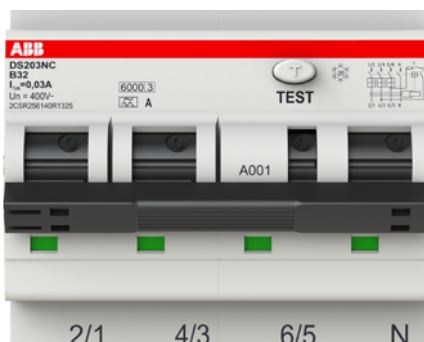
The benefits of a product with the highest quality standards





Use with cables and with busbars

Terminals with two slots allow to use different types of conductors: one housing is designed for cables up to 25 mm², the other for busbars or cables up to 10 mm².



New toggle

The toggle is now squared, with a new and more ergonomic grip, to prevent slip during operations.



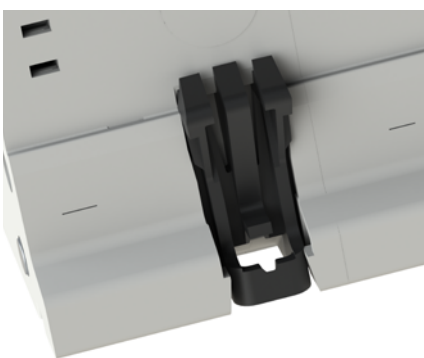
Differential trip indicator

In case of tripping due to earth fault, a blue flag appears on the toggle thus immediately showing the cause of the trip of the device. This feature helps in troubleshooting on the network and reduces the downtime for maintenance.



Laser print information

All the necessary technical and installation information is laser printed on the front and side of units ensuring visibility along the time, including order code on the front of the device for future orders.



Mounting clip

The mounting clip eases the installation and removal from the DIN rail, even when used in a battery of devices with busbars on bottom terminals (without the need to remove other devices).



Approval stamps

DS203NC residual current circuit breakers with overcurrent protection can meet different installation habits in various countries and are approved by the most important certification bodies like IMQ, VDE, KEMA.

RCBOs

DS203NC technical features

			DS203NC L	DS203NC
Standards			IEC/EN 61009-1; IEC/EN 61009-2-1	IEC/EN 61009-1; IEC/EN 61009-2-1
Electrical features				
Type (wave form of the earth leakage sensed)			AC, A, APR	AC, A, APR, S
Number of poles			3P+N	3P+N
Rated current I_n	A		$6 \leq I_n \leq 32A$	$6 \leq I_n \leq 32A$
Rated sensitivity $I_{\Delta n}$	mA		30-300	30-100-300
Rated operational voltage U_e	V		400-415V	400-415V
Rated Insulation voltage U_i acc. to IEC/EN 60664-1	V		500 V AC	500 V AC
Overvoltage category			III	III
Pollution degree			2	2
Operating voltage of circuit test U_t	V		195 (300 for 30 mA) - 440	
Rated frequency f	Hz		50/60	50/60
Rated short circuit breaking capacity acc. to IEC/EN 61009-1	ultimate I_{cn}	A	4500	6000
Rated short circuit breaking capacity acc. to IEC/EN 60947-2 (only referring to internal short circuit test)	ultimate I_{cu}	kA	6	10
	service I_{cs}	kA	4.5	5
Grid distance	mm		35	35
Rated residual breaking capacity $I_{\Delta m}$ acc. To EN 61009	kA		4.5	6
Rated residual breaking capacity $I_{\Delta m}$ acc. to IEC 61009	kA		4.5	4.5
Rated impulse withstand voltage U_{imp} . (1.2/50 μ s)	kV		4	4
Dielectric test voltage at ind. freq. for 1 min.	kV		2.5	2.5
Tripping characteristic	B: $3 I_n \leq I_m \leq 5 I_n$			■
	C: $5 I_n \leq I_m \leq 10 I_n$		■	■
	K: $10 I_n \leq I_m \leq 14 I_n$			■
Surge current resistance (wave 8/20)	A		NA for A, AC versions; 3000 for APR version	NA for A, AC versions; 3000 for APR version; 5000 for S version
Mechanical features				
Housing Type			Insulation group II, RAL 7035	Insulation group II, RAL 7035
Toggle Type			black, sealable in ON-OFF positions	black, sealable in ON-OFF positions
Contact position indication			CPI on window	CPI on window
Electrical Endurance	cycles (OFF-ON-OFF)		10000	10000
Mechanical Endurance	cycles (OFF-ON-OFF)		20000	20000
Protection degree	housing		IP40	IP40
	terminals		IP20	IP20
Resistance to Shock acc. to IEC 60068-2-27			30g - 2 shocks - 13ms	30g - 2 shocks - 13ms
Vibration resistance acc. to IEC/EN 60068-2-6			0,35mm or 5g - 20 cycles at 5...150...5 Hz without load	0,35mm or 5g - 20 cycles at 5...150...5 Hz without load
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%	28 cycles with 55°C/90-96% and 25°C/95-100%
Reference temperature for tripping characteristics	°C		30	30
Ambient temperature (with daily average $\leq +35^\circ\text{C}$)	°C		-25...+55	-25...+55
Storage temperature	°C		-40...+70	-40...+70

RCBOs

DS203NC technical features

DS203NC L			DS203NC
Installation			
Terminal type	top/ bottom		failsafe bi-directional cylinder-lift terminal (shock protected)
Cross-section of conductors (IEC)	top/ bottom	mm ²	25/25
Cross-section of busbars (IEC)	top/ bottom	mm ²	10/10
Tightening torque	top/ bottom	Nm	2.8
Wire Stripping Length		mm	12
Screwdriver			No. 2 Pozidrive
Mounting Type			on DIN rail EN 60715 (35 mm) by means of mounting clip
Supply from			Top/bottom terminals
Dimensions and weight			
Dimensions (H x D x W)		mm	85 x 69 x 70.4
Weight		g	480
Combination with auxiliary elements			
Combinable with accessories and auxiliaries, by means of interface contact SCC-IH6R	Auxiliary contact		yes
	Signal contact		yes
	Shunt trip		yes
	Undervoltage release		yes
	Overvoltage release		yes

RCBOs

DS203NC L AC 



DS203NC L - AC

DS203NC L - AC type - C curve

Function: protection of end user three-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating earth fault currents; protection against indirect contact and additional protection against direct contact ($I_{\Delta n} = 30 \text{ mA}$).

Application: commercial, industrial.

Standard: IEC/EN 61009-1; IEC/EN 61009-2-1

$I_{cn} = 4\,500 \text{ A}$

Number of poles	Rated residual current $I_{\Delta n} \text{ mA}$	Rated current $I_n \text{ A}$	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
3P+N	30	6	353928	DS203NC L C6 AC30	2CSR246040R1064		0.480	1
		8	343622	DS203NC L C8 AC30	2CSR246040R1084		0.480	1
		10	353829	DS203NC L C10 AC30	2CSR246040R1104		0.480	1
		13	343523	DS203NC L C13 AC30	2CSR246040R1134		0.480	1
		16	353720	DS203NC L C16 AC30	2CSR246040R1164		0.480	1
		20	343424	DS203NC L C20 AC30	2CSR246040R1204		0.480	1
		25	353621	DS203NC L C25 AC30	2CSR246040R1254		0.480	1
		32	343325	DS203NC L C32 AC30	2CSR246040R1324		0.480	1
	300	6	343226	DS203NC L C6 AC300	2CSR246040R3064		0.480	1
		8	343127	DS203NC L C8 AC300	2CSR246040R3084		0.480	1
		10	343028	DS203NC L C10 AC300	2CSR246040R3104		0.480	1
		13	342922	DS203NC L C13 AC300	2CSR246040R3134		0.480	1
		16	776727	DS203NC L C16 AC300	2CSR246040R3164		0.480	1
		20	342823	DS203NC L C20 AC300	2CSR246040R3204		0.480	1
		25	342724	DS203NC L C25 AC300	2CSR246040R3254		0.480	1
		32	358428	DS203NC L C32 AC300	2CSR246040R3324		0.480	1

RCBOs

DS203NC L A  type



DS203NC L - A

DS203NC L - A type - C curve

Function: protection of end user three-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact ($I_{\Delta n} = 30 \text{ mA}$).

Application: commercial, industrial.

Standard: IEC/EN 61009-1; IEC/EN 61009-2-1

$I_{cn} = 4\,500 \text{ A}$

Number of poles	Rated residual current $I_{\Delta n} \text{ mA}$	Rated current $I_n \text{ A}$	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
3P+N	30	6	354628	DS203NC L C6 A30	2CSR246140R1064		0.480	1
		8	344322	DS203NC L C8 A30	2CSR246140R1084		0.480	1
		10	354529	DS203NC L C10 A30	2CSR246140R1104		0.480	1
		13	344223	DS203NC L C13 A30	2CSR246140R1134		0.480	1
		16	354420	DS203NC L C16 A30	2CSR246140R1164		0.480	1
		20	344124	DS203NC L C20 A30	2CSR246140R1204		0.480	1
		25	354321	DS203NC L C25 A30	2CSR246140R1254		0.480	1
		32	498025	DS203NC L C32 A30	2CSR246140R1324		0.480	1
	300	6	499220	DS203NC L C6 A300	2CSR246140R3064		0.480	1
		8	344025	DS203NC L C8 A300	2CSR246140R3084		0.480	1
		10	354222	DS203NC L C10 A300	2CSR246140R3104		0.480	1
		13	343929	DS203NC L C13 A300	2CSR246140R3134		0.480	1
		16	354123	DS203NC L C16 A300	2CSR246140R3164		0.480	1
		20	343820	DS203NC L C20 A300	2CSR246140R3204		0.480	1
		25	354024	DS203NC L C25 A300	2CSR246140R3254		0.480	1
		32	343721	DS203NC L C32 A300	2CSR246140R3324		0.480	1

RCBOs

DS203NC L APR type



DS203NC L - APR

DS203NC L - APR type - C curve

Function: protection of end user three-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents, providing an optimal compromise between safety and continuity of service, thanks to the resistance to unwanted tripping; protection against indirect contact and additional protection against direct contact ($I_{\Delta n} = 30 \text{ mA}$); protection and isolation of resistive and inductive loads.

Application: commercial, industrial.

Standard: IEC/EN 61009-1; IEC/EN 61009-2-1

$I_{cn} = 4\,500 \text{ A}$

Number of poles	Rated residual current $I_{\Delta n} \text{ mA}$	Rated current $I_n \text{ A}$	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
3P+N	30	6	079125	DS203NC L C6 APR30	2CSR246440R1064		0.480	1
		8	079026	DS203NC L C8 APR30	2CSR246440R1084		0.480	1
		10	078920	DS203NC L C10 APR30	2CSR246440R1104		0.480	1
		13	078821	DS203NC L C13 APR30	2CSR246440R1134		0.480	1
		16	078722	DS203NC L C16 APR30	2CSR246440R1164		0.480	1
		20	078623	DS203NC L C20 APR30	2CSR246440R1204		0.480	1
		25	078524	DS203NC L C25 APR30	2CSR246440R1254		0.480	1
		32	078425	DS203NC L C32 APR30	2CSR246440R1324		0.480	1

RCBOs

DS203NC AC  type



DS203NC - AC

DS203NC - AC type - B curve

Function: protection of end user three-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating earth fault currents; protection against indirect contact and additional protection against direct contact ($I_{\Delta n} = 30 \text{ mA}$).

Application: commercial, industrial.

Standard: IEC/EN 61009-1; IEC/EN 61009-2-1

$I_{cn} = 6\,000 \text{ A}$

Number of poles	Rated residual current $I_{\Delta n} \text{ mA}$	Rated current $I_n \text{ A}$	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
3P+N	30	6	077428	DS203NC B6 AC30	2CSR256040R1065		0.480	1
		8	077329	DS203NC B8 AC30	2CSR256040R1085		0.480	1
		10	077220	DS203NC B10 AC30	2CSR256040R1105		0.480	1
		13	077121	DS203NC B13 AC30	2CSR256040R1135		0.480	1
		16	077022	DS203NC B16 AC30	2CSR256040R1165		0.480	1
		20	076926	DS203NC B20 AC30	2CSR256040R1205		0.480	1
		25	790525	DS203NC B25 AC30	2CSR256040R1255		0.480	1
		32	076827	DS203NC B32 AC30	2CSR256040R1325		0.480	1
	100	6	076728	DS203NC B6 AC100	2CSR256040R2065		0.480	1
		8	076629	DS203NC B8 AC100	2CSR256040R2085		0.480	1
		10	076520	DS203NC B10 AC100	2CSR256040R2105		0.480	1
		13	076421	DS203NC B13 AC100	2CSR256040R2135		0.480	1
		16	076322	DS203NC B16 AC100	2CSR256040R2165		0.480	1
		20	076223	DS203NC B20 AC100	2CSR256040R2205		0.480	1
		25	076124	DS203NC B25 AC100	2CSR256040R2255		0.480	1
		32	076025	DS203NC B32 AC100	2CSR256040R2325		0.480	1
	300	6	353423	DS203NC B6 AC300	2CSR256040R3065		0.480	1
		8	353324	DS203NC B8 AC300	2CSR256040R3085		0.480	1
		10	266327	DS203NC B10 AC300	2CSR256040R3105		0.480	1
		13	266228	DS203NC B13 AC300	2CSR256040R3135		0.480	1
		16	266129	DS203NC B16 AC300	2CSR256040R3165		0.480	1
		20	266020	DS203NC B20 AC300	2CSR256040R3205		0.480	1
		25	265924	DS203NC B25 AC300	2CSR256040R3255		0.480	1
		32	790822	DS203NC B32 AC300	2CSR256040R3325		0.480	1

RCBOs

DS203NC AC type



DS203NC - AC

DS203NC - AC type - C curve

Function: protection of end user three-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating earth fault currents; protection against indirect contact and additional protection against direct contact ($I_{\Delta n} = 30 \text{ mA}$).

Application: commercial, industrial.

Standard: IEC/EN 61009-1; IEC/EN 61009-2-1

$I_{cn} = 6\,000 \text{ A}$

Number of poles	Rated residual current $I_{\Delta n} \text{ mA}$	Rated current $I_n \text{ A}$	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece	Pack unit
				Type code	Order code		kg	pc.
3P+N	30	6	265825	DS203NC C6 AC30	2CSR256040R1064		0.480	1
		8	353225	DS203NC C8 AC30	2CSR256040R1084		0.480	1
		10	518228	DS203NC C10 AC30	2CSR256040R1104		0.480	1
		13	186823	DS203NC C13 AC30	2CSR256040R1134		0.480	1
		16	352228	DS203NC C16 AC30	2CSR256040R1164		0.480	1
		20	186724	DS203NC C20 AC30	2CSR256040R1204		0.480	1
		25	352129	DS203NC C25 AC30	2CSR256040R1254		0.480	1
		32	263920	DS203NC C32 AC30	2CSR256040R1324		0.480	1
	100	6	263821	DS203NC C6 AC100	2CSR256040R2064		0.480	1
		8	263722	DS203NC C8 AC100	2CSR256040R2084		0.480	1
		10	263623	DS203NC C10 AC100	2CSR256040R2104		0.480	1
		13	263524	DS203NC C13 AC100	2CSR256040R2134		0.480	1
		16	518327	DS203NC C16 AC100	2CSR256040R2164		0.480	1
		20	263425	DS203NC C20 AC100	2CSR256040R2204		0.480	1
		25	186021	DS203NC C25 AC100	2CSR256040R2254		0.480	1
		32	352020	DS203NC C32 AC100	2CSR256040R2324		0.480	1
	300	6	185925	DS203NC C6 AC300	2CSR256040R3064		0.480	1
		8	185826	DS203NC C8 AC300	2CSR256040R3084		0.480	1
		10	185727	DS203NC C10 AC300	2CSR256040R3104		0.480	1
		13	185628	DS203NC C13 AC300	2CSR256040R3134		0.480	1
		16	185529	DS203NC C16 AC300	2CSR256040R3164		0.480	1
		20	185420	DS203NC C20 AC300	2CSR256040R3204		0.480	1
		25	517825	DS203NC C25 AC300	2CSR256040R3254		0.480	1
		32	180821	DS203NC C32 AC300	2CSR256040R3324		0.480	1

RCBOs

DS203NC A  type



DS203NC - A

DS203NC - A type - B curve

Function: protection of end user three-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact ($I_{\Delta n} = 30 \text{ mA}$).

Application: commercial, industrial.

Standard: IEC/EN 61009-1; IEC/EN 61009-2-1

$I_{cn} = 6\,000 \text{ A}$

Number of poles	Rated residual current $I_{\Delta n} \text{ mA}$	Rated current $I_n \text{ A}$	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
3P+N	30	6	078326	DS203NC B6 A30	2CSR256140R1065		0.480	1
		8	078227	DS203NC B8 A30	2CSR256140R1085		0.480	1
		10	078128	DS203NC B10 A30	2CSR256140R1105		0.480	1
		13	078029	DS203NC B13 A30	2CSR256140R1135		0.480	1
		16	077923	DS203NC B16 A30	2CSR256140R1165		0.480	1
		20	077824	DS203NC B20 A30	2CSR256140R1205		0.480	1
		25	077725	DS203NC B25 A30	2CSR256140R1255		0.480	1
		32	077626	DS203NC B32 A30	2CSR256140R1325		0.480	1
	100	6	080329	DS203NC B6 A100	2CSR256140R2065		0.480	1
		8	080220	DS203NC B8 A100	2CSR256140R2085		0.480	1
		10	080121	DS203NC B10 A100	2CSR256140R2105		0.480	1
		13	080022	DS203NC B13 A100	2CSR256140R2135		0.480	1
		16	079927	DS203NC B16 A100	2CSR256140R2165		0.480	1
		20	079828	DS203NC B20 A100	2CSR256140R2205		0.480	1
		25	079729	DS203NC B25 A100	2CSR256140R2255		0.480	1
		32	079620	DS203NC B32 A100	2CSR256140R2325		0.480	1
	300	6	079521	DS203NC B6 A300	2CSR256140R3065		0.480	1
		8	079422	DS203NC B8 A300	2CSR256140R3085		0.480	1
		10	079323	DS203NC B10 A300	2CSR256140R3105		0.480	1
		13	079224	DS203NC B13 A300	2CSR256140R3135		0.480	1
		16	305026	DS203NC B16 A300	2CSR256140R3165		0.480	1
		20	305125	DS203NC B20 A300	2CSR256140R3205		0.480	1
		25	400226	DS203NC B25 A300	2CSR256140R3255		0.480	1
		32	400028	DS203NC B32 A300	2CSR256140R3325		0.480	1

RCBOs

DS203NC A  type



DS203NC - A

DS203NC - A type - C curve

Function: protection of end user three-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact ($I_{\Delta n} = 30 \text{ mA}$).

Application: commercial, industrial.

Standard: IEC/EN 61009-1; IEC/EN 61009-2-1

$I_{cn} = 6\,000 \text{ A}$

Number of poles	Rated residual current $I_{\Delta n} \text{ mA}$	Rated current $I_n \text{ A}$	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
3P+N	30	6	400127	DS203NC C6 A30	2CSR256140R1064		0.480	1
		8	058823	DS203NC C8 A30	2CSR256140R1084		0.480	1
		10	896524	DS203NC C10 A30	2CSR256140R1104		0.480	1
		13	768227	DS203NC C13 A30	2CSR256140R1134		0.480	1
		16	830924	DS203NC C16 A30	2CSR256140R1164		0.480	1
		20	839927	DS203NC C20 A30	2CSR256140R1204		0.480	1
		25	768524	DS203NC C25 A30	2CSR256140R1254		0.480	1
		32	831228	DS203NC C32 A30	2CSR256140R1324		0.480	1
	100	6	840220	DS203NC C6 A100	2CSR256140R2064		0.480	1
		8	896425	DS203NC C8 A100	2CSR256140R2084		0.480	1
		10	768128	DS203NC C10 A100	2CSR256140R2104		0.480	1
		13	830825	DS203NC C13 A100	2CSR256140R2134		0.480	1
		16	839828	DS203NC C16 A100	2CSR256140R2164		0.480	1
		20	896722	DS203NC C20 A100	2CSR256140R2204		0.480	1
		25	768425	DS203NC C25 A100	2CSR256140R2254		0.480	1
		32	831129	DS203NC C32 A100	2CSR256140R2324		0.480	1
	300	6	840121	DS203NC C6 A300	2CSR256140R3064		0.480	1
		8	830726	DS203NC C8 A300	2CSR256140R3084		0.480	1
		10	839729	DS203NC C10 A300	2CSR256140R3104		0.480	1
		13	896623	DS203NC C13 A300	2CSR256140R3134		0.480	1
		16	768326	DS203NC C16 A300	2CSR256140R3164		0.480	1
		20	831020	DS203NC C20 A300	2CSR256140R3204		0.480	1
		25	840022	DS203NC C25 A300	2CSR256140R3254		0.480	1
		32	631620	DS203NC C32 A300	2CSR256140R3324		0.480	1

RCBOs

DS203NC A  type



DS203NC - A

DS203NC - A type - K curve

Function: protection of end user three-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact ($I_{\Delta n} = 30 \text{ mA}$).

Application: commercial, industrial.

Standard: IEC/EN 61009-1; IEC/EN 61009-2-1

$I_{cn} = 6\,000 \text{ A}$

Number of poles	Rated residual current $I_{\Delta n} \text{ mA}$	Rated current $I_n \text{ A}$	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
3P+N	30	6	376026	DS203NC K6 A30	2CSR256140R1067		0.480	1
		8	629726	DS203NC K8 A30	2CSR256140R1087		0.480	1
		10	375920	DS203NC K10 A30	2CSR256140R1107		0.480	1
		13	779322	DS203NC K13 A30	2CSR256140R1137		0.480	1
		16	769323	DS203NC K16 A30	2CSR256140R1167		0.480	1
		20	631521	DS203NC K20 A30	2CSR256140R1207		0.480	1
		25	375821	DS203NC K25 A30	2CSR256140R1257		0.480	1
		32	779223	DS203NC K32 A30	2CSR256140R1327		0.480	1
	100	6	593423	DS203NC K6 A100	2CSR256140R2067		0.480	1
		8	581628	DS203NC K8 A100	2CSR256140R2087		0.480	1
		10	569824	DS203NC K10 A100	2CSR256140R2107		0.480	1
		13	594727	DS203NC K13 A100	2CSR256140R2137		0.480	1
		16	582922	DS203NC K16 A100	2CSR256140R2167		0.480	1
		20	571124	DS203NC K20 A100	2CSR256140R2207		0.480	1
		25	592426	DS203NC K25 A100	2CSR256140R2257		0.480	1
		32	580621	DS203NC K32 A100	2CSR256140R2327		0.480	1

RCBOs

DS203NC APR type



DS203NC - APR

DS203NC - APR type - C curve

Function: protection of end user three-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents, providing an optimal compromise between safety and continuity of service, thanks to the resistance to unwanted tripping; protection against indirect contact and additional protection against direct contact ($I_{\Delta n} = 30 \text{ mA}$); protection and isolation of resistive and inductive loads.

Application: commercial, industrial.

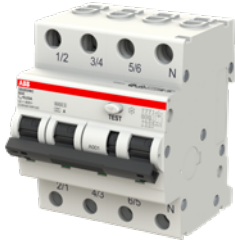
Standard: IEC/EN 61009-1; IEC/EN 61009-2-1

$I_{cn} = 6000 \text{ A}$

Number of poles	Rated residual current $I_{\Delta n} \text{ mA}$	Rated current $I_n \text{ A}$	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece	Pack unit
				Type code	Order code		kg	pc.
3P+N	30	6	349822	DS203NC C6 APR30	2CSR256440R1064		0.480	1
		8	180722	DS203NC C8 APR30	2CSR256440R1084		0.480	1
		10	349723	DS203NC C10 APR30	2CSR256440R1104		0.480	1
		13	261520	DS203NC C13 APR30	2CSR256440R1134		0.480	1
		16	261421	DS203NC C16 APR30	2CSR256440R1164		0.480	1
		20	261322	DS203NC C20 APR30	2CSR256440R1204		0.480	1
		25	261223	DS203NC C25 APR30	2CSR256440R1254		0.480	1
		32	261124	DS203NC C32 APR30	2CSR256440R1324		0.480	1
	100	6	274223	DS203NC C6 APR100	2CSR256440R2064		0.480	1
		8	517924	DS203NC C8 APR100	2CSR256440R2084		0.480	1
		10	261025	DS203NC C10 APR100	2CSR256440R2104		0.480	1
		13	180029	DS203NC C13 APR100	2CSR256440R2134		0.480	1
		16	349624	DS203NC C16 APR100	2CSR256440R2164		0.480	1
		20	179924	DS203NC C20 APR100	2CSR256440R2204		0.480	1
		25	179825	DS203NC C25 APR100	2CSR256440R2254		0.480	1
		32	179726	DS203NC C32 APR100	2CSR256440R2324		0.480	1
	300	6	179627	DS203NC C6 APR300	2CSR256440R3064		0.480	1
		8	179528	DS203NC C8 APR300	2CSR256440R3084		0.480	1
		10	179429	DS203NC C10 APR300	2CSR256440R3104		0.480	1
		13	518020	DS203NC C13 APR300	2CSR256440R3134		0.480	1
		16	176329	DS203NC C16 APR300	2CSR256440R3164		0.480	1
		20	351023	DS203NC C20 APR300	2CSR256440R3204		0.480	1
		25	176220	DS203NC C25 APR300	2CSR256440R3254		0.480	1
		32	350927	DS203NC C32 APR300	2CSR256440R3324		0.480	1

RCBOs

DS203NC A  S type



DS203NC - A S

DS203NC - A S type - C curve

Function: protection of end user three-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact ($I_{\Delta n} = 30 \text{ mA}$). Selective type.

Application: commercial, industrial.

Standard: IEC/EN 61009-1; IEC/EN 61009-2-1

$I_{cn} = 6\,000 \text{ A}$

Number of poles	Rated residual current $I_{\Delta n} \text{ mA}$	Rated current $I_n \text{ A}$	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit
				Type code	Order code			
3P+N	100	16	021827	DS203NC C16 A S100	2CSR256240R2164		0.480	1
		20	021728	DS203NC C20 A S100	2CSR256240R2204		0.480	1
		25	021629	DS203NC C25 A S100	2CSR256240R2254		0.480	1
		32	021520	DS203NC C32 A S100	2CSR256240R2324		0.480	1
	300	16	297727	DS203NC C16 A S300	2CSR256240R3164		0.480	1
		20	373223	DS203NC C20 A S300	2CSR256240R3204		0.480	1
		25	373124	DS203NC C25 A S300	2CSR256240R3254		0.480	1
		32	077527	DS203NC C32 A S300	2CSR256240R3324		0.480	1

RCBOs

DS 200 technical features



DS 200

Standards	
Electrical features	Operating characteristic: type (wave form of the earth leakage sensed)
	Poles
	Rated sensitivity $I_{\Delta n}$ A
	Rated current I_n A
	Rated operational voltage U_e 2P V
	3P, 4P V
	Rated Insulation voltage U_i acc. to IEC/EN 60664-1 V
	Operating voltage of circuit test U_t 2P V
	3P V
	4P V
	Rated frequency f Hz
	Rated short circuit breaking capacity acc. to IEC/EN 61009-1 ultimate I_{cn} A
	Rated short circuit breking capacity acc. to IEC/EN 60947-2 ultimate I_{cu} kA
	(only referring to internal short circuit test) service I_{cs} kA
	Grid distance mm
	Rated residual breaking capacity $I_{\Delta m}$ kA
	Rated impulse withstand voltage U_{imp} . (1.2/50 μ s) kV
	Dielectric test voltage at ind. freq. for 1 min. kV
	Overvoltage category
	Thermomagnetic release characteristic B: $3 I_n \leq I_m \leq 5 I_n$
	C: $5 I_n \leq I_m \leq 10 I_n$
	K: $10 I_n \leq I_m \leq 14 I_n$
	Surge current resistance (wave 8/20) A
Mechanical features	Toggle Type 2P, 3P, 4P
	Contact position indication
	Electrical Endurance cycles (OFF-ON-OFF)
	Mechanical Endurance cycles (OFF-ON-OFF)
	Protection degree housing
	terminals
	Environmental conditions (damp heat) acc. to IEC/EN 60068-2-30 °C/RH
	Resistance to Shock acc. to IEC 60068-2-27
	Resistance to Vibrations acc. to IEC 60068-2-6
	Reference temperature for tripping characteristics °C
Installation	Ambient temperature (with daily average $\leq +35$ °C) °C
	Storage temperature °C
	Terminal type top
	bottom 2P
	3P/4P $I_n \leq 40$ A
	3P/4P 50 A $\leq I_n \leq 63$ A
	Cross-section of conductors (IEC) 2P mm ²
	3P/4P $I_n \leq 40$ A mm ²
	3P/4P 50 A $\leq I_n \leq 63$ A mm ²
	Cross-section of busbars (IEC) 2P Nm
	3P/4P $I_n \leq 40$ A Nm
	3P/4P 50 A $\leq I_n \leq 63$ A Nm
	Mounting Type
	Mounting position
	Connection

① Available depending on type and characteristic curve. For 2P RCBOs A type B-C curves up to 32 A, refer to DS202C 2 protected poles RCBOs in only two modules.

② Prior to connection of aluminium conductors (≥ 4 mm²) ensure that their contact points are cleaned, brushed and coated with grease.

RCBOs

DS 200 technical features

DS 200 AC	DS 200 A	DS 200M AC	DS 200M A
IEC/EN 61009-1; IEC/EN 61009-2-1; IEC/EN 60947-2			
AC	A	AC	A
2P, 3P, 4P			
0.03			
$6 \leq I_n \leq 63$ ①			
230-240			
230/400 - 240/415			
500			
110 (170 for 30 mA) - 254			
195 (300 for 30 mA) - 440			
195 (300 for 30 mA) - 440			
50...60			
6000	6000	10000	10000
10	10	15	15
7.5	7.5	11.2	11.2
35	35	35	35
6	6	10	10
6			
2.5			
III, disconnecter abilities			
■	■	■	■
■	■	■	■
	■		
NA			
black (MCB) sealable in ON-OFF position + blue (RCD)			
CPI on window			
10000			
20000			
IP40			
IP20			
28 cycles with 55°C/90-96% and 25°C/95-100%			
25g - 2 shocks - 13ms			
0.1 mm or 1 g - 20 cycles at 5...150...5 Hz			
30			
-25...+55			
-40...+70			
failsafe bidirectional cylinder-lift terminal (shock protected) ②			
failsafe bidirectional cylinder-lift terminal (shock protected) ②			
cage (shock protected)			
failsafe bidirectional cylinder-lift terminal (shock protected) ②			
rigid: 35/25 flexible: 25/25			
rigid: 35/25 flexible: 25/16			
rigid : 35/25 flexible : 25/25			
2.8/2.8			
2.8/1.2			
2.8/2.8			
on DIN rail EN 60715 (35 mm) by means of fast clip device			
Any			
715 (35 mm) by means of fast clip devicefrom top and bottom			

RCBOs

DS 200 technical features



DS 200

Dimensions and weight	Dimensions (H x D x W)	2P	mm
		3P $I_n \leq 40\text{ A}$	mm
		4P $I_n \leq 40\text{ A}$	mm
		3P $50\text{ A} \leq I_n \leq 63\text{ A}$	mm
		4P $50\text{ A} \leq I_n \leq 63\text{ A}$	mm
	Weight	2P	g
		3P $I_n \leq 40\text{ A}$	g
		4P $I_n \leq 40\text{ A}$	g
		3P $50\text{ A} \leq I_n \leq 63\text{ A}$	g
		4P $50\text{ A} \leq I_n \leq 63\text{ A}$	g
Combination with auxiliary elements	Combinable with:	auxiliary contact	
		signal contact/auxiliary switch	
		shunt trip	
		undervoltage release	

RCBOs

DS 200 technical features

DS 200 AC	DS 200 A	DS 200M AC	DS 200M A
85 x 69 x 70			
85 x 69 x 87.5			
85 x 69 x 105			
85 x 69 x 122.5			
85 x 69 x 140			
475			
625			
775			
775			
925			
yes			
yes			
yes			
yes			

RCBOs

DS 200 series 6000 - AC  type, B characteristic



DS 202



DS 203



DS 204

DS 200 AC type, B characteristic

Function: protection against overload and short-circuit currents; protection against the effects of sinusoidal alternating earth fault currents; protection against indirect contacts and additional protection against direct contacts.

Application: commercial, industrial, residential.

Standard: IEC/EN 61009-1, IEC/EN 61009-2-1 and IEC/EN 60947-2

Icn = 6 kA

Number of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
2	30	6	863502	DS202 AC-B6/0.03	2CSR252001R1065		0.440	1
		10	863601	DS202 AC-B10/0.03	2CSR252001R1105		0.440	1
		13	863700	DS202 AC-B13/0.03	2CSR252001R1135		0.440	1
		16	863809	DS202 AC-B16/0.03	2CSR252001R1165		0.440	1
		20	863908	DS202 AC-B20/0.03	2CSR252001R1205		0.440	1
		25	864004	DS202 AC-B25/0.03	2CSR252001R1255		0.440	1
		32	864103	DS202 AC-B32/0.03	2CSR252001R1325		0.440	1
		40	864202	DS202 AC-B40/0.03	2CSR252001R1405		0.440	1
		50 ①	864301	DS202 AC-B50/0.03	2CSR252001R1505		0.440	1
		63 ①	864400	DS202 AC-B63/0.03	2CSR252001R1635		0.440	1

Number of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
3	30	6	865506	DS203 AC-B6/0.03	2CSR253001R1065		0.610	1
		10	865605	DS203 AC-B10/0.03	2CSR253001R1105		0.610	1
		13	865704	DS203 AC-B13/0.03	2CSR253001R1135		0.610	1
		16	865803	DS203 AC-B16/0.03	2CSR253001R1165		0.610	1
		20	865902	DS203 AC-B20/0.03	2CSR253001R1205		0.610	1
		25	866008	DS203 AC-B25/0.03	2CSR253001R1255		0.610	1
		32	866107	DS203 AC-B32/0.03	2CSR253001R1325		0.610	1
		40	866206	DS203 AC-B40/0.03	2CSR253001R1405		0.610	1
		50 ①	866305	DS203 AC-B50/0.03	2CSR253001R1505		0.650	1
		63 ①	866404	DS203 AC-B63/0.03	2CSR253001R1635		0.650	1

Number of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
4	30	6	867500	DS204 AC-B6/0.03	2CSR254001R1065		0.780	1
		10	867609	DS204 AC-B10/0.03	2CSR254001R1105		0.780	1
		13	867708	DS204 AC-B13/0.03	2CSR254001R1135		0.780	1
		16	867807	DS204 AC-B16/0.03	2CSR254001R1165		0.780	1
		20	867906	DS204 AC-B20/0.03	2CSR254001R1205		0.780	1
		25	868002	DS204 AC-B25/0.03	2CSR254001R1255		0.780	1
		32	868101	DS204 AC-B32/0.03	2CSR254001R1325		0.780	1
		40	868200	DS204 AC-B40/0.03	2CSR254001R1405		0.780	1
		50 ①	868309	DS204 AC-B50/0.03	2CSR254001R1505		0.825	1
		63 ①	868408	DS204 AC-B63/0.03	2CSR254001R1635		0.825	1

① provided with additional terminals for remote tripping.

RCBOs

DS 200 series 6000 - AC  type, C characteristic



DS 202



DS 203



DS 204

DS 200 AC type, C characteristic

Function: protection against overload and short-circuit currents; protection against the effects of sinusoidal alternating earth fault currents; protection against indirect contacts and additional protection against direct contacts.

Application: commercial, industrial.

Standard: IEC/EN 61009-1; IEC/EN 61009-2-1 and IEC/EN 60947-2

Icn = 6 kA

Number of poles	Rated residual current I _{Δn} mA	Rated current I _n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
2	30	6	869504	DS202 AC-C6/0.03	2CSR252001R1064		0.440	1
		10	869603	DS202 AC-C10/0.03	2CSR252001R1104		0.440	1
		13	869702	DS202 AC-C13/0.03	2CSR252001R1134		0.440	1
		16	869801	DS202 AC-C16/0.03	2CSR252001R1164		0.440	1
		20	869900	DS202 AC-C20/0.03	2CSR252001R1204		0.440	1
		25	870005	DS202 AC-C25/0.03	2CSR252001R1254		0.440	1
		32	870104	DS202 AC-C32/0.03	2CSR252001R1324		0.440	1
		40	870203	DS202 AC-C40/0.03	2CSR252001R1404		0.440	1
		50 ①	870302	DS202 AC-C50/0.03	2CSR252001R1504		0.440	1
		63 ①	870401	DS202 AC-C63/0.03	2CSR252001R1634		0.440	1

Number of poles	Rated residual current I _{Δn} mA	Rated current I _n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
3	30	6	871507	DS203 AC-C6/0.03	2CSR253001R1064		0.610	1
		10	871606	DS203 AC-C10/0.03	2CSR253001R1104		0.610	1
		13	871705	DS203 AC-C13/0.03	2CSR253001R1134		0.610	1
		16	871804	DS203 AC-C16/0.03	2CSR253001R1164		0.610	1
		20	871903	DS203 AC-C20/0.03	2CSR253001R1204		0.610	1
		25	872009	DS203 AC-C25/0.03	2CSR253001R1254		0.610	1
		32	872108	DS203 AC-C32/0.03	2CSR253001R1324		0.610	1
		40	872207	DS203 AC-C40/0.03	2CSR253001R1404		0.610	1
		50 ①	872306	DS203 AC-C50/0.03	2CSR253001R1504		0.650	1
		63 ①	872405	DS203 AC-C63/0.03	2CSR253001R1634		0.650	1

Number of poles	Rated residual current I _{Δn} mA	Rated current I _n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
4	30	6	873501	DS204 AC-C6/0.03	2CSR254001R1064		0.780	1
		10	873600	DS204 AC-C10/0.03	2CSR254001R1104		0.780	1
		13	873709	DS204 AC-C13/0.03	2CSR254001R1134		0.780	1
		16	873808	DS204 AC-C16/0.03	2CSR254001R1164		0.780	1
		20	873907	DS204 AC-C20/0.03	2CSR254001R1204		0.780	1
		25	874003	DS204 AC-C25/0.03	2CSR254001R1254		0.780	1
		32	874102	DS204 AC-C32/0.03	2CSR254001R1324		0.780	1
		40	874201	DS204 AC-C40/0.03	2CSR254001R1404		0.780	1
		50 ①	874300	DS204 AC-C50/0.03	2CSR254001R1504		0.825	1
		63 ①	874409	DS204 AC-C63/0.03	2CSR254001R1634		0.825	1

① provided with additional terminals for remote tripping.

RCBOs

DS 200 series 6000 - A  type, B characteristic



DS 202



DS 203



DS 204

DS 200 A type, B characteristic

Function: protection against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contacts and additional protection against direct contacts.

Application: commercial, industrial.

Standard: IEC/EN 61009-1; IEC/EN 61009-2-1 and IEC/EN 60947-2

Icn = 6 kA

Number of poles	Rated residual current I Δ n mA	Rated current I n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
2	30	40	858201	DS202 A-B40/0.03	2CSR252101R1405		0.440	1
		50 ①	858300	DS202 A-B50/0.03	2CSR252101R1505		0.440	1
		63 ①	858409	DS202 A-B63/0.03	2CSR252101R1635		0.440	1

Number of poles	Rated residual current I Δ n mA	Rated current I n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
3	30	6	858508	DS203 A-B6/0.03	2CSR253101R1065		0.610	1
		10	858607	DS203 A-B10/0.03	2CSR253101R1105		0.610	1
		13	858706	DS203 A-B13/0.03	2CSR253101R1135		0.610	1
		16	858805	DS203 A-B16/0.03	2CSR253101R1165		0.610	1
		20	858904	DS203 A-B20/0.03	2CSR253101R1205		0.610	1
		25	859000	DS203 A-B25/0.03	2CSR253101R1255		0.610	1
		32	859109	DS203 A-B32/0.03	2CSR253101R1325		0.610	1
		40	859208	DS203 A-B40/0.03	2CSR253101R1405		0.610	1
		50 ①	859307	DS203 A-B50/0.03	2CSR253101R1505		0.650	1
		63 ①	859406	DS203 A-B63/0.03	2CSR253101R1635		0.650	1

Number of poles	Rated residual current I Δ n mA	Rated current I n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
4	30	6	859505	DS204 A-B6/0.03	2CSR254101R1065		0.780	1
		10	859604	DS204 A-B10/0.03	2CSR254101R1105		0.780	1
		13	859703	DS204 A-B13/0.03	2CSR254101R1135		0.780	1
		16	859802	DS204 A-B16/0.03	2CSR254101R1165		0.780	1
		20	859901	DS204 A-B20/0.03	2CSR254101R1205		0.780	1
		25	860006	DS204 A-B25/0.03	2CSR254101R1255		0.780	1
		32	860105	DS204 A-B32/0.03	2CSR254101R1325		0.780	1
		40	860204	DS204 A-B40/0.03	2CSR254101R1405		0.780	1
		50 ①	860303	DS204 A-B50/0.03	2CSR254101R1505		0.825	1
		63 ①	860402	DS204 A-B63/0.03	2CSR254101R1635		0.825	1

① provided with additional terminals for remote tripping.

RCBOs

DS 200 series 6000 - A  type, C characteristic



DS 202



DS 203



DS 204

DS 200 A type, C characteristic

Function: protection against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contacts and additional protection against direct contacts.

Application: commercial, industrial.

Standard: IEC/EN 61009-1; IEC/EN 61009-2-1 and IEC/EN 60947-2

Icn = 6 kA

Number of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
2	30	40	861201	DS202 A-C40/0.03	2CSR252101R1404		0.440	1
		50 ①	861300	DS202 A-C50/0.03	2CSR252101R1504		0.440	1
		63 ①	861409	DS202 A-C63/0.03	2CSR252101R1634		0.440	1

Number of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
3	30	6	861508	DS203 A-C6/0.03	2CSR253101R1064		0.610	1
		10	861607	DS203 A-C10/0.03	2CSR253101R1104		0.610	1
		13	861706	DS203 A-C13/0.03	2CSR253101R1134		0.610	1
		16	861805	DS203 A-C16/0.03	2CSR253101R1164		0.610	1
		20	861904	DS203 A-C20/0.03	2CSR253101R1204		0.610	1
		25	862000	DS203 A-C25/0.03	2CSR253101R1254		0.610	1
		32	862109	DS203 A-C32/0.03	2CSR253101R1324		0.610	1
		40	862208	DS203 A-C40/0.03	2CSR253101R1404		0.610	1
		50 ①	862307	DS203 A-C50/0.03	2CSR253101R1504		0.650	1
		63 ①	862406	DS203 A-C63/0.03	2CSR253101R1634		0.650	1

Number of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
4	30	6	862505	DS204 A-C6/0.03	2CSR254101R1064		0.780	1
		10	862604	DS204 A-C10/0.03	2CSR254101R1104		0.780	1
		13	862703	DS204 A-C13/0.03	2CSR254101R1134		0.780	1
		16	862802	DS204 A-C16/0.03	2CSR254101R1164		0.780	1
		20	862901	DS204 A-C20/0.03	2CSR254101R1204		0.780	1
		25	863007	DS204 A-C25/0.03	2CSR254101R1254		0.780	1
		32	863106	DS204 A-C32/0.03	2CSR254101R1324		0.780	1
		40	863205	DS204 A-C40/0.03	2CSR254101R1404		0.780	1
		50 ①	863304	DS204 A-C50/0.03	2CSR254101R1504		0.825	1
		63 ①	863403	DS204 A-C63/0.03	2CSR254101R1634		0.825	1

① provided with additional terminals for remote tripping.

RCBOs

DS 200 series 6000 - A  type, K characteristic



DS 202



DS 203



DS 204

DS 200 A type, K characteristic

Function: protection and control against overloads and short-circuit in systems where motors, transformers and auxiliary circuits are present. Advantages: no unwanted release in case of currents peak up to $10 \times I_n$, according to the series; thanks to the high sensibility bimetal, the K curve switches offer protection of the sensible elements from overcurrents; they also allow the best protection of cables and lines.

Application: commercial, industrial.

Standard: IEC/EN 60947-2

Icn = 6 kA

Number of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
2	30	6	930303	DS202 A-K6/0.03	2CSR252101R1067		0.475	1
		10	900702	DS202 A-K10/0.03	2CSR252101R1107		0.475	1
		13	930402	DS202 A-K13/0.03	2CSR252101R1137		0.475	1
		16	930501	DS202 A-K16/0.03	2CSR252101R1167		0.475	1
		20	930600	DS202 A-K20/0.03	2CSR252101R1207		0.475	1
		25	930709	DS202 A-K25/0.03	2CSR252101R1257		0.475	1
		32	930808	DS202 A-K32/0.03	2CSR252101R1327		0.475	1
		40	930907	DS202 A-K40/0.03	2CSR252101R1407		0.475	1
		50 ①	931003	DS202 A-K50/0.03	2CSR252101R1507		0.475	1
		63 ①	931102	DS202 A-K63/0.03	2CSR252101R1637		0.475	1

Number of poles	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
4	30	6	931201	DS204 A-K6/0.03	2CSR254101R1067		0.775	1
		10	931300	DS204 A-K10/0.03	2CSR254101R1107		0.775	1
		13	931409	DS204 A-K13/0.03	2CSR254101R1137		0.775	1
		16	931508	DS204 A-K16/0.03	2CSR254101R1167		0.775	1
		20	931607	DS204 A-K20/0.03	2CSR254101R1207		0.775	1
		25	931706	DS204 A-K25/0.03	2CSR254101R1257		0.775	1
		32	931805	DS204 A-K32/0.03	2CSR254101R1327		0.775	1
		40	931904	DS204 A-K40/0.03	2CSR254101R1407		0.775	1
		50 ①	932000	DS204 A-K50/0.03	2CSR254101R1507		0.775	1
		63 ①	932109	DS204 A-K63/0.03	2CSR254101R1637		0.775	1

① provided with additional terminals for remote tripping.

RCBOs

DS 200 M series 10000 - AC  type, B characteristic



DS 202



DS 203



DS 204

DS 200 M AC type, B characteristic

Function: protection against overload and short-circuit currents; protection against the effects of sinusoidal alternating earth fault currents; protection against indirect contacts and additional protection against direct contacts.

Application: commercial, industrial.

Standard: IEC/EN 61009-1; IEC/EN 61009-2-1

Icn = 10 kA

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
2	30	6	932208	DS202 M AC-B6/0.03	2CSR272001R1065		0.440	1
		10	932307	DS202 M AC-B10/0.03	2CSR272001R1105		0.440	1
		13	932406	DS202 M AC-B13/0.03	2CSR272001R1135		0.440	1
		16	932505	DS202 M AC-B16/0.03	2CSR272001R1165		0.440	1
		20	932604	DS202 M AC-B20/0.03	2CSR272001R1205		0.440	1
		25	932703	DS202 M AC-B25/0.03	2CSR272001R1255		0.440	1
		32	932802	DS202 M AC-B32/0.03	2CSR272001R1325		0.440	1
		40	932901	DS202 M AC-B40/0.03	2CSR272001R1405		0.440	1
		50 ①	933007	DS202 M AC-B50/0.03	2CSR272001R1505		0.440	1
		63 ①	933106	DS202 M AC-B63/0.03	2CSR272001R1635		0.440	1

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
3	30	6	933205	DS203 M AC-B6/0.03	2CSR273001R1065		0.610	1
		10	933304	DS203 M AC-B10/0.03	2CSR273001R1105		0.610	1
		13	933403	DS203 M AC-B13/0.03	2CSR273001R1135		0.610	1
		16	933502	DS203 M AC-B16/0.03	2CSR273001R1165		0.610	1
		20	933601	DS203 M AC-B20/0.03	2CSR273001R1205		0.610	1
		25	933700	DS203 M AC-B25/0.03	2CSR273001R1255		0.610	1
		32	933809	DS203 M AC-B32/0.03	2CSR273001R1325		0.610	1
		40	933908	DS203 M AC-B40/0.03	2CSR273001R1405		0.610	1
		50 ①	934004	DS203 M AC-B50/0.03	2CSR273001R1505		0.650	1
		63 ①	934103	DS203 M AC-B63/0.03	2CSR273001R1635		0.650	1

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
4	30	6	934202	DS204 M AC-B6/0.03	2CSR274001R1065		0.780	1
		10	934301	DS204 M AC-B10/0.03	2CSR274001R1105		0.780	1
		13	934400	DS204 M AC-B13/0.03	2CSR274001R1135		0.780	1
		16	934509	DS204 M AC-B16/0.03	2CSR274001R1165		0.780	1
		20	934608	DS204 M AC-B20/0.03	2CSR274001R1205		0.780	1
		25	934707	DS204 M AC-B25/0.03	2CSR274001R1255		0.780	1
		32	934806	DS204 M AC-B32/0.03	2CSR274001R1325		0.780	1
		40	934905	DS204 M AC-B40/0.03	2CSR274001R1405		0.780	1
		50 ①	935001	DS204 M AC-B50/0.03	2CSR274001R1505		0.825	1
		63 ①	935100	DS204 M AC-B63/0.03	2CSR274001R1635		0.825	1

① provided with additional terminals for remote tripping.

RCBOs

DS 200 M series 10000 - AC  type, C characteristic



DS 202



DS 203



DS 204

DS 200 M AC type, C characteristic

Function: protection against overload and short-circuit currents; protection against the effects of sinusoidal alternating earth fault currents; protection against indirect contacts and additional protection against direct contacts.

Application: commercial, industrial.

Standard: IEC/EN 61009-1; IEC/EN 61009-2-1

I_{cn} = 10 kA

Number of poles	Rated residual current I _{Δn} mA	Rated current I _n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
2	30	6	851509	DS202 M AC-C6/0.03	2CSR272001R1064		0.440	1
		10	851608	DS202 M AC-C10/0.03	2CSR272001R1104		0.440	1
		13	851707	DS202 M AC-C13/0.03	2CSR272001R1134		0.440	1
		16	851806	DS202 M AC-C16/0.03	2CSR272001R1164		0.440	1
		20	851905	DS202 M AC-C20/0.03	2CSR272001R1204		0.440	1
		25	852001	DS202 M AC-C25/0.03	2CSR272001R1254		0.440	1
		32	852100	DS202 M AC-C32/0.03	2CSR272001R1324		0.440	1
		40	852209	DS202 M AC-C40/0.03	2CSR272001R1404		0.440	1
		50 ①	852308	DS202 M AC-C50/0.03	2CSR272001R1504		0.440	1
		63 ①	852407	DS202 M AC-C63/0.03	2CSR272001R1634		0.440	1

Number of poles	Rated residual current I _{Δn} mA	Rated current I _n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
3	30	6	852506	DS203 M AC-C6/0.03	2CSR273001R1064		0.610	1
		10	852605	DS203 M AC-C10/0.03	2CSR273001R1104		0.610	1
		13	852704	DS203 M AC-C13/0.03	2CSR273001R1134		0.610	1
		16	852803	DS203 M AC-C16/0.03	2CSR273001R1164		0.610	1
		20	852902	DS203 M AC-C20/0.03	2CSR273001R1204		0.610	1
		25	853008	DS203 M AC-C25/0.03	2CSR273001R1254		0.610	1
		32	853107	DS203 M AC-C32/0.03	2CSR273001R1324		0.610	1
		40	853206	DS203 M AC-C40/0.03	2CSR273001R1404		0.610	1
		50 ①	853305	DS203 M AC-C50/0.03	2CSR273001R1504		0.650	1
		63 ①	853404	DS203 M AC-C63/0.03	2CSR273001R1634		0.650	1

Number of poles	Rated residual current I _{Δn} mA	Rated current I _n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
4	30	6	853503	DS204 M AC-C6/0.03	2CSR274001R1064		0.780	1
		10	853602	DS204 M AC-C10/0.03	2CSR274001R1104		0.780	1
		13	853701	DS204 M AC-C13/0.03	2CSR274001R1134		0.780	1
		16	853800	DS204 M AC-C16/0.03	2CSR274001R1164		0.780	1
		20	853909	DS204 M AC-C20/0.03	2CSR274001R1204		0.780	1
		25	854005	DS204 M AC-C25/0.03	2CSR274001R1254		0.780	1
		32	854104	DS204 M AC-C32/0.03	2CSR274001R1324		0.780	1
		40	854203	DS204 M AC-C40/0.03	2CSR274001R1404		0.780	1
		50 ①	854302	DS204 M AC-C50/0.03	2CSR274001R1504		0.825	1
		63 ①	854401	DS204 M AC-C63/0.03	2CSR274001R1634		0.825	1

① provided with additional terminals for remote tripping.

RCBOs

DS 200 M series 10000 - A  type, B characteristic



DS 202



DS 203



DS 204

DS 200 M A type, B characteristic

Function: protection against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contacts and additional protection against direct contacts.

Application: commercial, industrial.

Standard: IEC/EN 61009-1; IEC/EN 61009-2-1

Icn = 10 kA

Number of poles	Rated residual current I Δ n mA	Rated current In A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
2	30	40	846208	DS202 M A-B40/0.03	2CSR272101R1405		0.440	1
		50 ①	846307	DS202 M A-B50/0.03	2CSR272101R1505		0.440	1
		63 ①	846406	DS202 M A-B63/0.03	2CSR272101R1635		0.440	1

Number of poles	Rated residual current I Δ n mA	Rated current In A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
3	30	6	846505	DS203 M A-B6/0.03	2CSR273101R1065		0.610	1
		10	846604	DS203 M A-B10/0.03	2CSR273101R1105		0.610	1
		13	846703	DS203 M A-B13/0.03	2CSR273101R1135		0.610	1
		16	846802	DS203 M A-B16/0.03	2CSR273101R1165		0.610	1
		20	846901	DS203 M A-B20/0.03	2CSR273101R1205		0.610	1
		25	847007	DS203 M A-B25/0.03	2CSR273101R1255		0.610	1
		32	847106	DS203 M A-B32/0.03	2CSR273101R1325		0.610	1
		40	847205	DS203 M A-B40/0.03	2CSR273101R1405		0.610	1
		50 ①	847304	DS203 M A-B50/0.03	2CSR273101R1505		0.650	1
		63 ①	847403	DS203 M A-B63/0.03	2CSR273101R1635		0.650	1

Number of poles	Rated residual current I Δ n mA	Rated current In A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
4	30	6	847502	DS204 M A-B6/0.03	2CSR274101R1065		0.780	1
		10	847601	DS204 M A-B10/0.03	2CSR274101R1105		0.780	1
		13	847700	DS204 M A-B13/0.03	2CSR274101R1135		0.780	1
		16	847809	DS204 M A-B16/0.03	2CSR274101R1165		0.780	1
		20	847908	DS204 M A-B20/0.03	2CSR274101R1205		0.780	1
		25	848004	DS204 M A-B25/0.03	2CSR274101R1255		0.780	1
		32	848103	DS204 M A-B32/0.03	2CSR274101R1325		0.780	1
		40	848202	DS204 M A-B40/0.03	2CSR274101R1405		0.780	1
		50 ①	848301	DS204 M A-B50/0.03	2CSR274101R1505		0.825	1
		63 ①	848400	DS204 M A-B63/0.03	2CSR274101R1635		0.825	1

① provided with additional terminals for remote tripping.

RCBOs

DS 200 M series 10000 - A  type, C characteristic



DS 202



DS 203

DS 200 M A type, C characteristic

Function: protection against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contacts and additional protection against direct contacts.

Application: commercial, industrial.

Standard: IEC/EN 61009-1; IEC/EN 61009-2-1

I_{cn} = 10 kA

Number of poles	Rated residual current I _{Δn} mA	Rated current I _n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece	Pack unit
				Type code	Order code		kg	pc.
2	30	40	849209	DS202 M A-C40/0.03	2CSR272101R1404		0.440	1
		50 ①	849308	DS202 M A-C50/0.03	2CSR272101R1504		0.440	1
		63 ①	849407	DS202 M A-C63/0.03	2CSR272101R1634		0.440	1

Number of poles	Rated residual current I _{Δn} mA	Rated current I _n A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece	Pack unit
				Type code	Order code		kg	pc.
3	30	6	849506	DS203 M A-C6/0.03	2CSR273101R1064		0.610	1
		10	849605	DS203 M A-C10/0.03	2CSR273101R1104		0.610	1
		13	849704	DS203 M A-C13/0.03	2CSR273101R1134		0.610	1
		16	849803	DS203 M A-C16/0.03	2CSR273101R1164		0.610	1
		20	849902	DS203 M A-C20/0.03	2CSR273101R1204		0.610	1
		25	850007	DS203 M A-C25/0.03	2CSR273101R1254		0.610	1
		32	850106	DS203 M A-C32/0.03	2CSR273101R1324		0.610	1
		40	850205	DS203 M A-C40/0.03	2CSR273101R1404		0.610	1
		50 ①	850304	DS203 M A-C50/0.03	2CSR273101R1504		0.650	1
		63 ①	850403	DS203 M A-C63/0.03	2CSR273101R1634		0.650	1

① provided with additional terminals for remote tripping.

RCBOs

DS 200 M series 10000 - A type, C characteristic



DS 204

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
4	30	6	850502	DS204 M A-C6/0.03	2CSR274101R1064		0.780	1
		10	850601	DS204 M A-C10/0.03	2CSR274101R1104		0.780	1
		13	850700	DS204 M A-C13/0.03	2CSR274101R1134		0.780	1
		16	850809	DS204 M A-C16/0.03	2CSR274101R1164		0.780	1
		20	850908	DS204 M A-C20/0.03	2CSR274101R1204		0.780	1
		25	851004	DS204 M A-C25/0.03	2CSR274101R1254		0.780	1
		32	851103	DS204 M A-C32/0.03	2CSR274101R1324		0.780	1
		40	851202	DS204 M A-C40/0.03	2CSR274101R1404		0.780	1
		50 ①	851301	DS204 M A-C50/0.03	2CSR274101R1504		0.825	1
		63 ①	851400	DS204 M A-C63/0.03	2CSR274101R1634		0.825	1

① provided with additional terminals for remote tripping.



Notes

A series of horizontal lines for taking notes.

DS800P

Product at a glance

Product marking

Clear and easy identification of product name and relevant characteristics

QR code

Quick access to product main details and relevant documentation

Test button

Test pushbutton to verify the correct functioning of the device

Contact Position Indication (CPI)

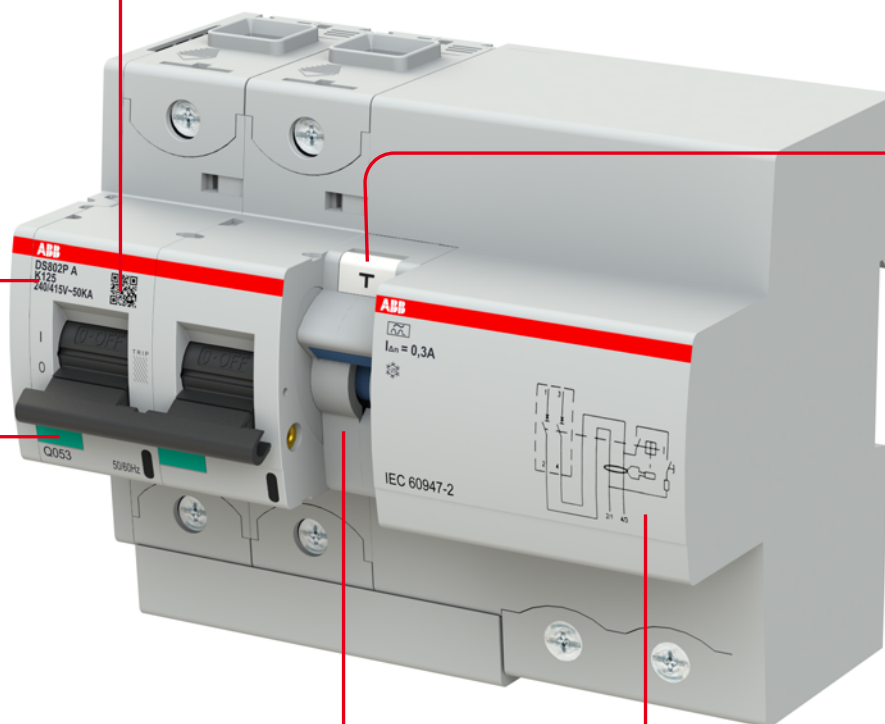
Clear visualization of the device status

RCD toggle Indication (CPI)

RCD block operating toggle can also be sealed into on/off position

Technical Details

RCD technical details quick reference (wiring diagram, sensitivity, type)



RCBOs

DS800P technical features



DS800P

Standards			
Electrical features	Operating characteristic: type (wave form of the earth leakage sensed)		
	Poles		
	Rated sensitivity $I_{\Delta n}$		A
	Rated current I_n		A
	Rated voltage U_e		V
	Insulation voltage U_i		V
	Operating voltage of circuit test U_t		V
	Rated frequency		Hz
	Rated ultimate short-circuit breaking capacity I_{cu}	240/415 V AC	kA
		254/440 V AC	kA
		289/500 V AC	kA
		400/690 V AC	kA
	Rated service short-circuit breaking capacity I_{cs}	240/415 V AC	kA
	Rated impulse withstand voltage (1.2/50) U_{imp}		kV
	Dielectric test voltage at ind. freq. for 1 min.		kV
	Thermomagnetic release characteristic	B: $3 I_n \leq I_m \leq 5 I_n$	
		C: $5 I_n \leq I_m \leq 10 I_n$	
		D**: $10 I_n \leq I_m \leq 20 I_n$	
		K**: $10 I_n \leq I_m \leq 16 I_n$	
	Surge current resistance acc. to VDE 0432 Part 2 (wave 8/20)		A
Mechanical features	Toggle		
	Electrical Endurance		cycles (OFF-ON-OFF)
	Mechanical Endurance		cycles (OFF-ON-OFF)
	Protection degree	housing	
		terminals	
	Environmental conditions (damp heat) acc. to IEC/EN 60068-2-30		°C/RH
	Ambient temperature (with daily average $\leq + 35$ °C)		°C
	Storage temperature		°C
Installation	Terminal size for cables	flexible	mm ²
		rigid	mm ²
	Tightening torque		Nm
	Mounting		
Dimensions and weight	Dimensions (H x D x W)	2P	mm
		3P	mm
		4P	mm
	Weight	2P	g
		3P	g
		4P	g
Combination with auxiliary elements	Combinable with:		auxiliary contact
			signal contact/auxiliary switch
			shunt trip
			undervoltage release

* 1A on 2P and 4P versions, while 0.3A only on 4P ones.

** as specified in standard IEC/EN 60947-2 the device withstands $I_m \leq 6 I_n$ with guaranteed non intervention.

DS800P technical features

DS800P A	DS800P A S	DS800P A AP-R
IEC/EN 60947-2		
A	A	A
2P, 3P, 4P	2P,4P	2P, 3P, 4P
0.3	0.3-1(*)	0.03
125		
240/415-400/690		
690		
195-690		
50/60		
50	50	50
30	30	30
10	10	10
4.5	4.5	4.5
40	40	40
6		
2.5		
■	■	■
■	■	■
■	■	■
■	■	■
NA	5000	3000
black (MCB) sealable in ON-OFF position + blue (RCD) operating just from OFF position		
1000		
8000		
IP40		
IP20		
28 cycles with 55°C/90-96% and 25°C/95-100%		
-25...+60		
-40...+70		
25...50		
25...70		
3.5Nm		
on DIN rail EN 60715 (35 mm) by means of rapid fixing device		
108,2 x 82,3 x 138		
108,2 x 82,3 x 200,5		
108,2 x 82,3 x 227,5		
803		
1153		
1453		
yes		
yes		
yes		
yes		

DS800P

Type A / AS

DS800P, A type

Function: protection against overload and short-circuit currents; protection against the effects of sinusoidal alternating earth fault currents; protection against indirect contacts; command and isolation of resistive and inductive loads.

Application: industrial.

Standard: IEC/EN 60947-2

Icu = 50 kA



DS800P A type

Number of poles	Curve	Rated residual current I Δ n mA	Rated current [A]	Bbn 7612271 EAN	Order details		Weight [kg]	Pack. unit
					Type Code	Order code		
2	B	300	125	517793	DS802P-B125/0.3A	2CCG001310R0001	0.803	1
	C	300	125	517809	DS802P-C125/0.3A	2CCG001311R0001	0.803	1
	D	300	125	517816	DS802P-D125/0.3A	2CCG001312R0001	0.803	1
	K	300	125	517823	DS802P-K125/0.3A	2CCG001313R0001	0.803	1
3	B	300	125	517830	DS803P-B125/0.3A	2CCG001314R0001	1.153	1
	C	300	125	517847	DS803P-C125/0.3A	2CCG001315R0001	1.153	1
	D	300	125	517854	DS803P-D125/0.3A	2CCG001316R0001	1.153	1
	K	300	125	517861	DS803P-K125/0.3A	2CCG001317R0001	1.153	1
4	B	300	125	517878	DS804P-B125/0.3A	2CCG001318R0001	1.453	1
	C	300	125	517885	DS804P-C125/0.3A	2CCG001319R0001	1.453	1
	D	300	125	517892	DS804P-D125/0.3A	2CCG001320R0001	1.453	1
	K	300	125	517908	DS804P-K125/0.3A	2CCG001321R0001	1.453	1

DS800P A Selective Type

Function: protection against overload and short-circuit currents; protection against the effects of sinusoidal alternating earth fault currents with an intentional tripping delay, which allows to realize the selectivity with downstream instantaneous devices (for more information about selectivity see the technical guide); protection against indirect contacts; command and isolation of resistive and inductive loads.

Application: industrial.

Standard: IEC/EN 60947-2

Icu = 50 kA



DS800P AS type

Number of poles	Curve	Rated residual current I Δ n mA	Rated current [A]	Bbn 7612271 EAN	Order details		Weight [kg]	Pack. unit
					Type Code	Order code		
2	B	1000	125	517915	DS802P-B125/1AS	2CCG001322R0001	0.803	1
	C	1000	125	517922	DS802P-C125/1AS	2CCG001323R0001	0.803	1
	D	1000	125	517939	DS802P-D125/1AS	2CCG001324R0001	0.803	1
	K	1000	125	517946	DS802P-K125/1AS	2CCG001325R0001	0.803	1
4	B	300	125	517953	DS804P-B125/0.3AS	2CCG001326R0001	1.453	1
		1000	125	517960	DS804P-B125/1AS	2CCG001327R0001	1.453	1
	C	300	125	517977	DS804P-C125/0.3AS	2CCG001328R0001	1.453	1
		1000	125	517984	DS804P-C125/1AS	2CCG001329R0001	1.453	1
	D	300	125	517991	DS804P-D125/0.3AS	2CCG001330R0001	1.453	1
		1000	125	518004	DS804P-D125/1AS	2CCG001331R0001	1.453	1
	K	300	125	518011	DS804P-K125/0.3AS	2CCG001332R0001	1.453	1
		1000	125	518028	DS804P-K125/1AS	2CCG001333R0001	1.453	1

DS800P

Type A AP-R

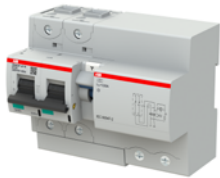
DS800S AP-R, A type

Function: protection against the effects of sinusoidal alternating earth fault currents, providing the best compromise between safety and continuity in the service thanks to the resistance to unwanted trippings; protection against indirect contacts and additional protection against direct contacts ($I_{\Delta n}=30$ mA); protection and isolation of resistive and inductive loads.

Application: industrial.

Standard: IEC/EN 60947-2

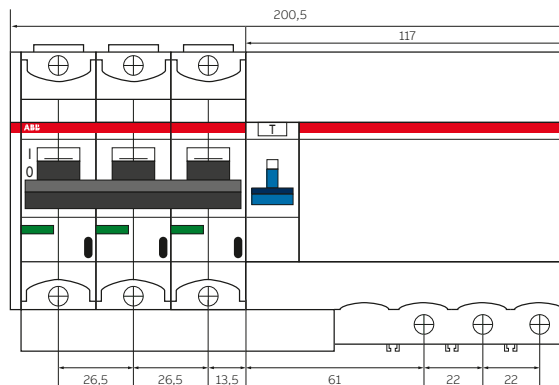
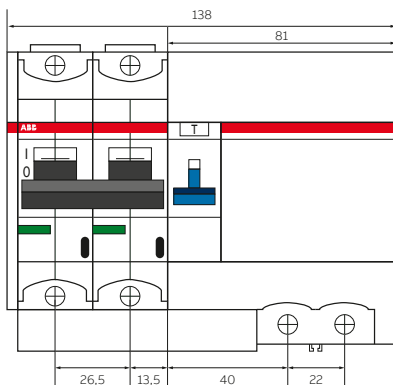
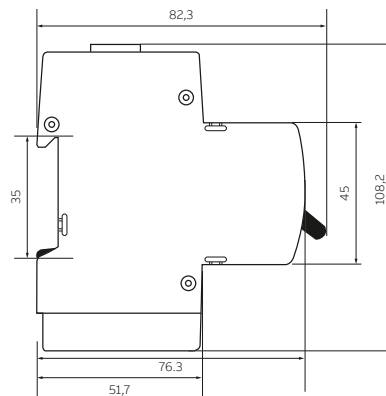
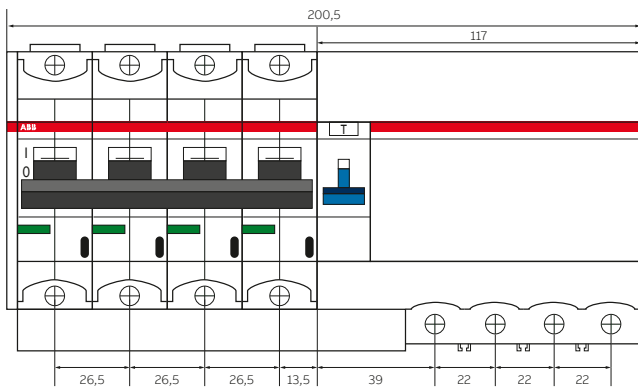
Icu = 50 kA



DS800P AP-R Type

Number of poles	Curve	Rated residual current IΔn mA	Rated current [A]	Bbn 7612271 EAN	Order details		Weight [kg]	Pack. unit
					Type Code	Order code		
2	B	30	125	518073	DS802P-B125/ 0.03AP-R	2CCG001338R0001	0.803	1
	C	30	125	518080	DS802P-C125/ 0.03AP-R	2CCG001339R0001	0.803	1
	D	30	125	518097	DS802P-D125/ 0.03AP-R	2CCG001340R0001	0.803	1
	K	30	125	518103	DS802P-K125/ 0.03AP-R	2CCG001341R0001	0.803	1
3	B	30	125	518110	DS803P-B125/ 0.03AP-R	2CCG001342R0001	1.153	1
	C	30	125	518127	DS803P-C125/ 0.03AP-R	2CCG001343R0001	1.153	1
	D	30	125	518134	DS803P-D125/ 0.03AP-R	2CCG001344R0001	1.153	1
	K	30	125	518141	DS803P-K125/ 0.03AP-R	2CCG001345R0001	1.153	1
4	B	30	125	518158	DS804P-B125/ 0.03AP-R	2CCG001346R0001	1.453	1
	C	30	125	518165	DS804P-C125/ 0.03AP-R	2CCG001347R0001	1.453	1
	D	30	125	518172	DS804P-D125/ 0.03AP-R	2CCG001348R0001	1.453	1
	K	30	125	518189	DS804P-K125/ 0.03AP-R	2CCG001349R0001	1.453	1

DS800P Dimension Diagrams



eRCBO, the value of quality

Made with attention to details

Space for insulated screwdrivers

The larger neutral hole allows the use of an insulated screwdriver to tighten the screw of neutral terminals, ensuring maximum operation safety. All versions are equipped with cage type terminals (16mm² load side), with tightening torque of 1.2 Nm.

Product coding

All the necessary technical and installation information can be found directly on the device. Product range, tripping characteristics, rated currents, sensitivity, type, breaking capacity, rated voltage, order code, EAN code, electrical scheme, reference standards and many other specifications are laser printed on the front and side of units.

Easy to install

Fast installation is supported by the two flying leads for neutral cable and functional earth, each integrated in the device, which can be directly connected to the main neutral bar and main earth bar.

In control

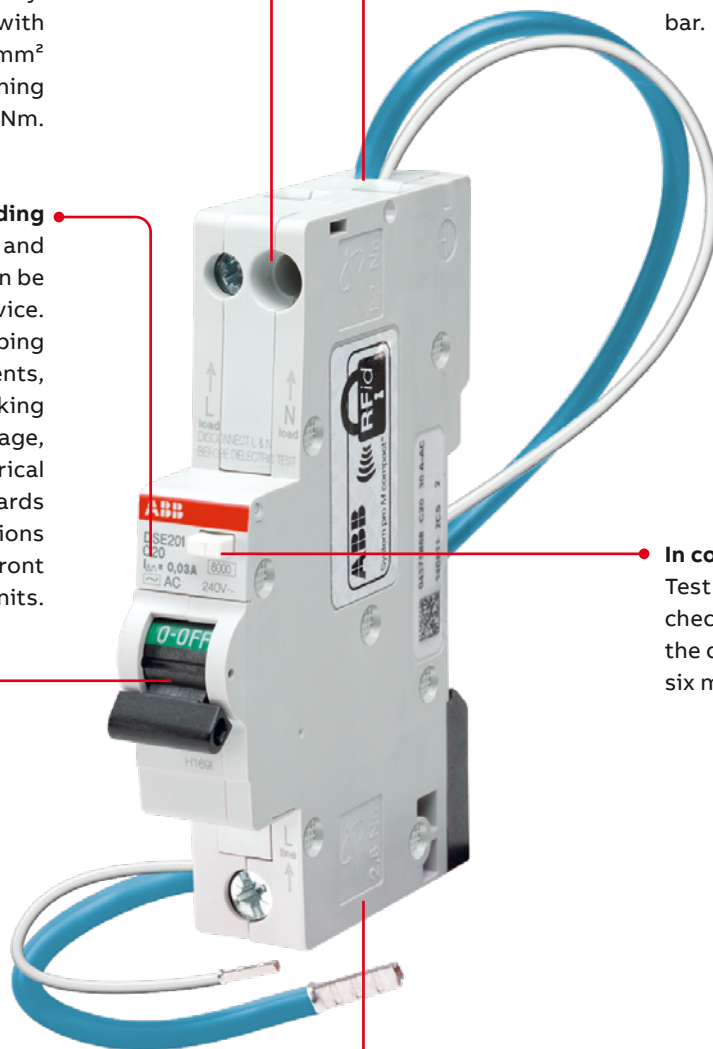
Test button allows the regular check of the functionality of the device: to be pushed every six months.

Real contact position indicator on toggle

Directly connected to the moving contact of the device, it indicates the exact position of the contacts at all times (red: closed contacts, green: open contacts).

Reduced height

Thanks to its reduced height, only 100 mm, DSE201 makes easier wiring operation inside the consumer unit or the distribution board.





With its breaking capacity of 6kA in only one module width and 100mm height, the DSE201 series is the perfect solution for a complete protection in residential and light commercial applications. At home, in the office or in a shop,

these devices are essential for the safety of people, utilities and equipment, protecting not only against earth fault residual currents - due to loss of isolation or accidental contact with live parts - but also against overcurrents.



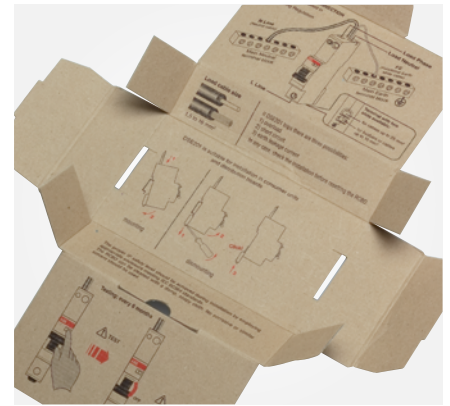
Double slot terminal

On the line side, the availability of a terminal with two slots allows to use different types of conductors: one housing is designed for cables up to 25 mm², the other for busbars or cables up to 10 mm².



Easy and flexible

The double clip eases dismounting even when the unit is installed in a high density system. A single device can be removed from the cluster without disconnecting other units. The same screwdriver used to tighten terminals can also be used to unlock the DIN rail fixing device of the unit.



Environmentally friendly

The user manual is an integral part of the package. The information have been printed inside the box to make easy the reading and to reduce consumption of paper.

DSE201

Technical features and overall dimensions

Electrical features			
Standards		IEC 61009-1; IEC 61009-2-2; AS/NZS 61009.1	
Type (wave form of the earth leakage sensed)		AC, A	
Number of poles		1P+N	
Rated current I _n	A	6≤ I _n ≤ 50	
Rated sensitivity I _{Δn}	mA	30	
Rated operational voltage U _e	V	230-240	
Rated Insulation voltage U _i acc. to IEC/EN 60664-1	V	500 V AC	
Overvoltage category		III	
Pollution degree		2	
Max. operating voltage	V	264	
Min. operating voltage for protection against IΔn residual sinusoidal alternating currents	V	85	
Operating voltage of circuit test	V	195 - 264	
Rated frequency f	Hz	50/60	
Rated short circuit breaking capacity acc. to IEC 61009-1	I _{cn}	A	6000
Rated residual breaking capacity IΔm according to IEC 61009-1	IΔm	kA	6
Grid distance	mm	35	
Rated impulse withstand voltage U _{imp.} (1.2/50μs)	kV	4 kV (test voltage 6.2kV at sea level, 5kV at 2000m)	
Dielectric test voltage at ind. freq. for 1 min.	kV	2 kV (50 / 60Hz)	
Tripping characteristic	B: 3 I _n ≤ I _m ≤ 5 I _n		■
	C: 5 I _n ≤ I _m ≤ 10 I _n		■
Mechanical data			
Housing type		insulation group II, RAL 7035	
Toggle type		insulation group IIIA, black, sealable in ON-OFF positions	
Contact position indication (CPI)		Red/Green marking on toggle (I ON / 0 OFF)	
Electrical Endurance		cycles (OFF-ON-OFF)	10000
Mechanical Endurance		cycles (OFF-ON-OFF)	20000
Protection degree acc. To EN 60529	housing	IP40	
	terminals	IP20	
Resistance to Shock acc. to IEC 60068-2-27		30g - 2 shocks - 13ms	
Resistance to Vibrations acc. to IEC 60068-2-6		0.35mm or 5g - 20 cycles at 5...150...5 Hz without load	
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%
Reference temperature for tripping characteristics		°C	30
Ambient temperature (with daily average ≤ +35 °C)		°C	-25...+55
Storage temperature		°C	-40...+70

DSE201

Technical features and overall dimensions

Installation			
Terminal type	top (load side)		failsafe cage (shock protected)
	bottom (line side)		failsafe bi-directional cylinder-lift terminal (shock protected)
Cross-section of conductors	top	mm ²	16
	bottom	mm ²	25
Cross-section of busbars	top		only for wire connection
	bottom		10 (Standard ABB busbar / distribution board system)
Tightening torque	top		1.2
	bottom		2.8
Wire Stripping Length	top		11
	bottom		12.5
Screwdriver			No. 2 Pozidrive
Neutral load cable	Type		low smoke halogen free
	Lenght	mm	750
	Section	mm ²	2.5 mm ² up to 20 A; 4 mm ² up to 50 A
	Color		blue (available also black)
Functional earth cable	Type		low smoke halogen free
	Lenght	mm	750
	Section	mm ²	0.75
	Color		white
Mounting Type			on DIN rail EN 60715 (35 mm) by means of fast clip device in consumer unit Type A according to IEC 61439-1&3, BS EN 61439-1&3, in distribution board Type B according to IEC 61439-1&3, BS EN 61439-1&3.
Mounting position			Any
Supply from			bottom terminal
Dimensions and weight			
Dimensions (H x D x W)		mm	100 x 68.9 x 17.6
Weight		g	180
Combination with auxiliary elements			
Combinable with accessories and auxiliaries			no

eRCBOs

DSE201 series 6000 A type, B and C characteristic



DSE201 ... A30

DSE201 A type, B and C characteristic

Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact ($I_{\Delta n} = 30 \text{ mA}$). The neutral is unswitched. Voltage dependent RCBO.

Application: residential, light commercial

Standard: IEC 61009-1; IEC 61009-2-2; AS/NZS 61009.1

$I_{cn} = 6\,000 \text{ A}$

N. of poles	Rated residual current IΔn [mA]	Rated Current In [A]	Bbn 8012542 EAN	Order details		Weight 1 piece [kg]	Pack unit pc.
				Type code	Order code		
B characteristic							
1P+N	30	6	399629	DSE201 B6 A30	2CSR255151R1065	0.180	1
		10	399728	DSE201 B10 A30	2CSR255151R1105	0.180	1
		16	658924	DSE201 B16 A30	2CSR255151R1165	0.180	1
		20	658429	DSE201 B20 A30	2CSR255151R1205	0.180	1
		25	659921	DSE201 B25 A30	2CSR255151R1255	0.180	1
		32	659426	DSE201 B32 A30	2CSR255151R1325	0.180	1
		40	658627	DSE201 B40 A30	2CSR255151R1405	0.180	1
		50	179337	DSE201 B50 A30	2CSR255151R1505	0.200	1
C characteristic							
1P+N	30	6	658122	DSE201 C6 A30	2CSR255151R1064	0.180	1
		10	659624	DSE201 C10 A30	2CSR255151R1104	0.180	1
		16	910923	DSE201 C16 A30	2CSR255151R1164	0.180	1
		20	659129	DSE201 C20 A30	2CSR255151R1204	0.180	1
		25	658726	DSE201 C25 A30	2CSR255151R1254	0.180	1
		32	658221	DSE201 C32 A30	2CSR255151R1324	0.180	1
		40	659723	DSE201 C40 A30	2CSR255151R1404	0.180	1
		50	349532	DSE201 C50 A30	2CSR255151R1504	0.200	1

eRCBOs

DSE201 series $\boxed{6000}$ AC $\sim$ type, B and C characteristic



DSE201 ... A30

DSE201 AC type, B and C characteristic

Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating earth fault currents; protection against indirect contact and additional protection against direct contact ($I_{\Delta n} = 30 \text{ mA}$). The neutral is unswitched. Voltage dependent RCBO.

Application: residential, light commercial

Standard: IEC 61009-1; IEC 61009-2-2; AS/NZS 61009.1

$I_{cn} = 6\,000 \text{ A}$

N. of poles	Rated residual current IΔn [mA]	Rated Current In [A]	Bbn 8012542 EAN	Order details		Weight 1 piece [kg]	Pack unit pc.
				Type code	Order code		
B characteristic							
1P+N	30	6	659228	DSE201 B6 AC30	2CSR255051R1065	0.180	1
		10	658825	DSE201 B10 AC30	2CSR255051R1105	0.180	1
		16	658320	DSE201 B16 AC30	2CSR255051R1165	0.180	1
		20	659822	DSE201 B20 AC30	2CSR255051R1205	0.180	1
		25	659327	DSE201 B25 AC30	2CSR255051R1255	0.180	1
		32	658528	DSE201 B32 AC30	2CSR255051R1325	0.180	1
		40	658023	DSE201 B40 AC30	2CSR255051R1405	0.180	1
		50	179238	DSE201 B50 AC30	2CSR255051R1505	0.200	1
C characteristic							
1P+N	30	6	659525	DSE201 C6 AC30	2CSR255051R1064	0.180	1
		10	910824	DSE201 C10 AC30	2CSR255051R1104	0.180	1
		16	659020	DSE201 C16 AC30	2CSR255051R1164	0.180	1
		20	660125	DSE201 C20 AC30	2CSR255051R1204	0.180	1
		25	660521	DSE201 C25 AC30	2CSR255051R1254	0.180	1
		32	660026	DSE201 C32 AC30	2CSR255051R1324	0.180	1
		40	660422	DSE201 C40 AC30	2CSR255051R1404	0.180	1
		50	349433	DSE201 C50 AC30	2CSR255051R1504	0.200	1

DSE201 M, unique solution

Features, which make operations friendly

Space for insulated screwdrivers

The larger neutral hole allows the use of an insulated screwdriver to tighten the screw of neutral terminals, ensuring maximum operation safety. All versions are equipped with cage type terminals (16mm² load side), with tightening torque of 1.2 Nm.

Earth fault indicator

Blue window in the front of the device to detect any earth fault trip: the cause of trip of the device can be identified in a short time, reducing the downtime for maintenance. DSE201M is the only device equipped with an earth fault indicator between one module width electronic RCBOs.

Real contact position indicator below the toggle

Directly linked to the moving contact of the device, the green/red window in the front of the device can identify the current position of the contacts (open/closed) independently on the toggle position.

Combination with auxiliary elements

A platform suitable for quick installation in combination with the standard auxiliary elements that can be mounted with RCDs and MCBs.

Easy to install

Fast installation is supported by the two flying leads for neutral cable and functional earth, each integrated in the device, which can be directly connected to the main neutral bar and main earth bar.

In control

Test button allows the regular check of the functionality of the device: to be pushed every six months.

Reduced height

Thanks to its reduced height, only 115 mm, DSE201M makes easier wiring operation inside the consumer unit or the distribution board.



DSE201 M, unique solution

Distinctive features

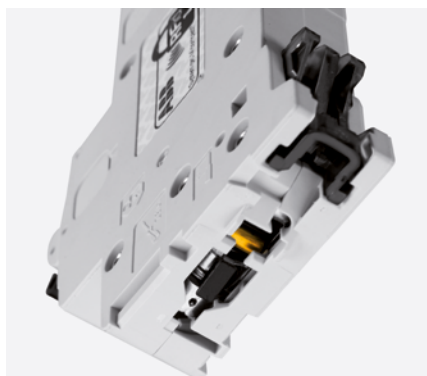
With its breaking capacity of 10kA in only one module width and 115mm height, DSE201M series is the perfect solution for a complete protection in commercial and industrial applications, where space optimization is particu-

larly required. The unique earth fault indicator window identifies any earth fault trip, making easier the troubleshooting on the network and reducing the downtime for maintenance.



Device status at a glance

Earth fault indicator: blue window above the toggle to immediately detect and identify any earth fault trip, reducing downtime for maintenance. Contact position indicator (CPI): green/red window below the toggle to identify the real position of the contacts independently on the toggle position.



Double slot terminal

Easy to install. Fail-safe line side terminal to avoid improper connection. Two slots of different dimensions (35 mm² and 10 mm²) available to allow the connection both with cables and busbars.



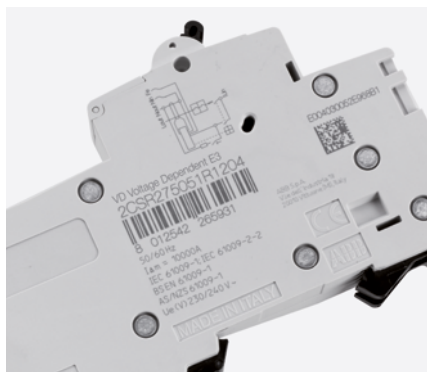
Load side

Load side terminal accepts cables, both rigid and flexible up to 16 mm². Flying leads are straight instead of pigtail ones to reduce the space required for wiring operations.



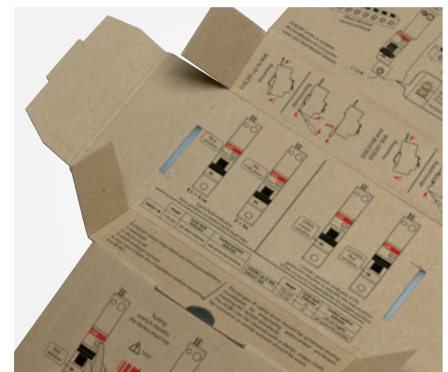
Easy and flexible

Double and bistable clips with a design for a secure fixing in any type of consumer unit or distribution board. Easy removal from a cluster of RCBOs/ MCBs supplied with Busbars.



Smart case

Main technical information are laser-printed on the front and left side of product to ensure long readability. On the right side, the tightening torque and the stripping length of the cable for a correct and safety installation of the unit are molded.



Smart package

Instruction manual printed inside the box with no additional paper wasted. Packaging is glue-less and takes advantage of the adhesive label containing the order information.

DSE201M

Technical features and overall dimensions

Electrical features			
Standards			IEC 61009-1 ; IEC 61009-2-2; BS EN 61009-1; AS/NZS 61009.1
Type (wave form of the earth leakage sensed)			AC, A
Number of poles			1P+N
Rated current I _n	A	6≤ In ≤ 50	
Rated sensitivity I _{Δn}	mA	10-30-100-300	
Rated operational voltage U _e	V	230-240	
Rated Insulation voltage U _i acc. to IEC/EN 60664-1	V	500 V AC	
Overvoltage category			III
Pollution degree			2
Max. operating voltage	V	264	
Min. operating voltage for protection against I _{Δn} residual sinusoidal alternating currents	V	85	
Operating voltage of circuit test	V	195-264	
Rated frequency f	Hz	50/60	
Rated short circuit breaking capacity acc. to IEC 61009-1	I _{cn}	A	10000
Rated short circuit breaking capacity acc. to IEC/EN 60947-2 (only referring to internal short circuit test)	ultimate I _{cu}	kA	15 (for 6A ≤ In ≤ 40A)
		kA	10 (for In = 50A)
	IΔm	kA	7.5
Rated residual breaking capacity IΔm according to IEC 61009-1		kA	10
Grid distance	mm	35	
Rated impulse withstand voltage U _{imp.} (1.2/50μs)	kV	4 kV (test voltage 6.2kV at sea level, 5kV at 2000m)	
Dielectric test voltage at ind. freq. for 1 min.	kV	2 kV (50 / 60Hz)	
Tripping characteristic	B: 3 I _n ≤ I _m ≤ 5 I _n		■
	C: 5 I _n ≤ I _m ≤ 10 I _n		■
Mechanical data			
Housing type			insulation group II, RAL 7035
Toggle type			insulation group II, black, sealable in ON-OFF positions
Earth fault trip indication			blue window
Contact position indication (CPI)			green/red Window
Electrical Endurance		cycles (OFF-ON-OFF)	10000
Mechanical Endurance		cycles (OFF-ON-OFF)	20000
Protection degree acc. To EN 60529	housing	IP40	
	terminals	IP20	
Resistance to Shock acc. to IEC 60068-2-27			30g - 2 shocks - 13ms
Resistance to Vibrations acc. to IEC 60068-2-6			0.35mm or 5g - 20 cycles at 5...150...5 Hz without load
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%	
Reference temperature for tripping characteristics	°C	30	
Ambient temperature (with daily average ≤ +35 °C)	°C	-25...+55	
Storage temperature	°C	-40...+70	

DSE201M

Technical features and overall dimensions

Installation			
Terminal type	top (load side)		failsafe cage (shock protected)
	bottom (line side)		failsafe bi-directional cylinder-lift terminal (shock protected)
Cross-section of conductors	top	mm ²	16
	bottom (Solid/Flexible)	mm ²	35/25
Cross-section of busbars	top		only for wire connection
	bottom	mm ²	10 (Standard ABB busbar / distribution board system)
Tightening torque	top	Nm	1.2
	bottom	Nm	2.8
Wire Stripping Length	top	mm	11
	bottom	mm	12.5
Screwdriver			No. 2 Pozidrive
Neutral load cable	Type		low smoke halogen free
	Lenght	mm	750
	Section	mm ²	2.5 mm ² up to 20 A; 4 mm ² up to 50 A
	Color		blue (available also black)
Functional earth cable	Type		low smoke halogen free
	Lenght	mm	750
	Section	mm ²	0.75
	Color		white
Mounting type			on DIN rail EN 60715 (35 mm) by means of fast clip device in consumer unit Type A according to IEC 61439-1&3, BS EN 61439-1&3 in distribution board Type B according to IEC 61439-1&3, BS EN 61439-1&3
Mounting position			Any
Supply from			bottom terminal
Dimensions and weight			
Dimensions (H x D x W)		mm	115 x 68.9 x 17.6
Weight		g	200
Combination with auxiliary elements			
Auxiliary contact			yes
Auxiliary/Signal contact			yes
Shunt trip			yes
Undervoltage release			yes
Overvoltage release			yes
Bottom fitting auxiliary contact			yes

eRCBOs

DSE201 M series 10000 A  type, B characteristic



DSE201 M ... A30

DSE201 M A type, B characteristic

Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact ($I_{\Delta n} = 30 \text{ mA}$). The neutral is unswitched. Voltage dependent RCBO.

Application: commercial, industrial

Standard: IEC 61009-1; IEC 61009-2-2; BS EN 61009-1; AS/NZS 61009.1

$I_{cn} = 10\,000 \text{ A}$

N. of poles	Rated residual current I Δ n [mA]	Rated Current In [A]	Bbn 8012542 EAN	Order details		Weight 1 piece [kg]	Pack unit pc.
				Type code	Order code		
B characteristic							
1P+N	10	6	079231	DSE201 M B6 A10	2CSR275151R0065	0.200	1
		10	305033	DSE201 M B10 A10	2CSR275151R0105	0.200	1
		16	305132	DSE201 M B16 A10	2CSR275151R0165	0.200	1
		20	400233	DSE201 M B20 A10	2CSR275151R0205	0.200	1
		25	400035	DSE201 M B25 A10	2CSR275151R0255	0.200	1
		32	400134	DSE201 M B32 A10	2CSR275151R0325	0.200	1
		40	058830	DSE201 M B40 A10	2CSR275151R0405	0.200	1
		50	896531	DSE201 M B50 A10	2CSR275151R0505	0.200	1
1P+N	30	6	830832	DSE201 M B6 A30	2CSR275151R1065	0.200	1
		10	839835	DSE201 M B10 A30	2CSR275151R1105	0.200	1
		16	896739	DSE201 M B16 A30	2CSR275151R1165	0.200	1
		20	768432	DSE201 M B20 A30	2CSR275151R1205	0.200	1
		25	831136	DSE201 M B25 A30	2CSR275151R1255	0.200	1
		32	840138	DSE201 M B32 A30	2CSR275151R1325	0.200	1
		40	830733	DSE201 M B40 A30	2CSR275151R1405	0.200	1
		50	839736	DSE201 M B50 A30	2CSR275151R1505	0.200	1

eRCBOs

DSE201 M series $\boxed{10000}$ A  type, C characteristic



DSE201 M ... A300

DSE201 M A type, C characteristic

Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact ($I_{\Delta n} = 30$ mA). The neutral is unswitched. Voltage dependent RCBO.

Application: commercial, industrial

Standard: IEC 61009-1; IEC 61009-2-2; BS EN 61009-1; AS/NZS 61009.1

$I_{cn} = 10\,000$ A

N. of poles	Rated residual current I Δ n [mA]	Rated Current In [A]	Bbn 8012542 EAN	Order details		Weight 1 piece [kg]	Pack unit pc.
				Type code	Order code		
C characteristic							
1P+N	10	6	768234	DSE201 M C6 A10	2CSR275151R0064	0.200	1
		10	830931	DSE201 M C10 A10	2CSR275151R0104	0.200	1
		16	839934	DSE201 M C16 A10	2CSR275151R0164	0.200	1
		20	768531	DSE201 M C20 A10	2CSR275151R0204	0.200	1
		25	831235	DSE201 M C25 A10	2CSR275151R0254	0.200	1
		32	840237	DSE201 M C32 A10	2CSR275151R0324	0.200	1
		40	896432	DSE201 M C40 A10	2CSR275151R0404	0.200	1
		50	768135	DSE201 M C50 A10	2CSR275151R0504	0.200	1
1P+N	30	6	896630	DSE201 M C6 A30	2CSR275151R1064	0.200	1
		10	768333	DSE201 M C10 A30	2CSR275151R1104	0.200	1
		16	831037	DSE201 M C16 A30	2CSR275151R1164	0.200	1
		20	840039	DSE201 M C20 A30	2CSR275151R1204	0.200	1
		25	631637	DSE201 M C25 A30	2CSR275151R1254	0.200	1
		32	376033	DSE201 M C32 A30	2CSR275151R1324	0.200	1
		40	629733	DSE201 M C40 A30	2CSR275151R1404	0.200	1
		50	375937	DSE201 M C50 A30	2CSR275151R1504	0.200	1
1P+N	100	6	779339	DSE201 M C6 A100	2CSR275151R2064	0.200	1
		10	769330	DSE201 M C10 A100	2CSR275151R2104	0.200	1
		16	631538	DSE201 M C16 A100	2CSR275151R2164	0.200	1
		20	375838	DSE201 M C20 A100	2CSR275151R2204	0.200	1
		25	779230	DSE201 M C25 A100	2CSR275151R2254	0.200	1
		32	631439	DSE201 M C32 A100	2CSR275151R2324	0.200	1
		40	940739	DSE201 M C40 A100	2CSR275151R2404	0.200	1
		50	941330	DSE201 M C50 A100	2CSR275151R2504	0.200	1
1P+N	300	6	620235	DSE201 M C6 A300	2CSR275151R3064	0.200	1
		10	021834	DSE201 M C10 A300	2CSR275151R3104	0.200	1
		16	021735	DSE201 M C16 A300	2CSR275151R3164	0.200	1
		20	021636	DSE201 M C20 A300	2CSR275151R3204	0.200	1
		25	021537	DSE201 M C25 A300	2CSR275151R3254	0.200	1
		32	021438	DSE201 M C32 A300	2CSR275151R3324	0.200	1
		40	021339	DSE201 M C40 A300	2CSR275151R3404	0.200	1
		50	021230	DSE201 M C50 A300	2CSR275151R3504	0.200	1

eRCBOs

DSE201 M series 10000 AC type, B characteristic



DSE201 M ... A30

DSE201 M AC type, B characteristic

Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating earth fault currents; protection against indirect contact and additional protection against direct contact ($I_{\Delta n} = 30 \text{ mA}$). The neutral is unswitched. Voltage dependent RCBO.

Application: commercial, industrial

Standard: IEC 61009-1; IEC 61009-2-2; BS EN 61009-1; AS/NZS 61009.1

$I_{cn} = 10\,000 \text{ A}$

N. of poles	Rated residual current I Δ n	Rated Current	Bbn 8012542 EAN	Order details		Weight 1 piece [kg]	Pack unit pc.
	[mA]	In [A]		Type code	Order code		
B characteristic							
1P+N	10	6	938132	DSE201 M B6 AC10	2CSR275051R0065	0.200	1
		10	297734	DSE201 M B10 AC10	2CSR275051R0105	0.200	1
		16	373230	DSE201 M B16 AC10	2CSR275051R0165	0.200	1
		20	373131	DSE201 M B20 AC10	2CSR275051R0205	0.200	1
		25	077534	DSE201 M B25 AC10	2CSR275051R0255	0.200	1
		32	077435	DSE201 M B32 AC10	2CSR275051R0325	0.200	1
		40	077336	DSE201 M B40 AC10	2CSR275051R0405	0.200	1
		50	077237	DSE201 M B50 AC10	2CSR275051R0505	0.200	1
1P+N	30	6	076438	DSE201 M B6 AC30	2CSR275051R1065	0.200	1
		10	076339	DSE201 M B10 AC30	2CSR275051R1105	0.200	1
		16	076230	DSE201 M B16 AC30	2CSR275051R1165	0.200	1
		20	076131	DSE201 M B20 AC30	2CSR275051R1205	0.200	1
		25	076032	DSE201 M B25 AC30	2CSR275051R1255	0.200	1
		32	353430	DSE201 M B32 AC30	2CSR275051R1325	0.200	1
		40	353331	DSE201 M B40 AC30	2CSR275051R1405	0.200	1
		50	266334	DSE201 M B50 AC30	2CSR275051R1505	0.200	1

eRCBOs

DSE201 M series $\boxed{10000}$ AC $\boxed{\sim}$ type, C characteristic



DSE201 M ... A300

DSE201 M AC type, C characteristic

Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating earth fault currents; protection against indirect contact and additional protection against direct contact ($I_{\Delta n} = 30 \text{ mA}$). The neutral is unswitched. Voltage dependent RCBO.

Application: commercial, industrial

Standard: IEC 61009-1; IEC 61009-2-2; BS EN 61009-1; AS/NZS 61009.1

$I_{cn} = 10\,000 \text{ A}$

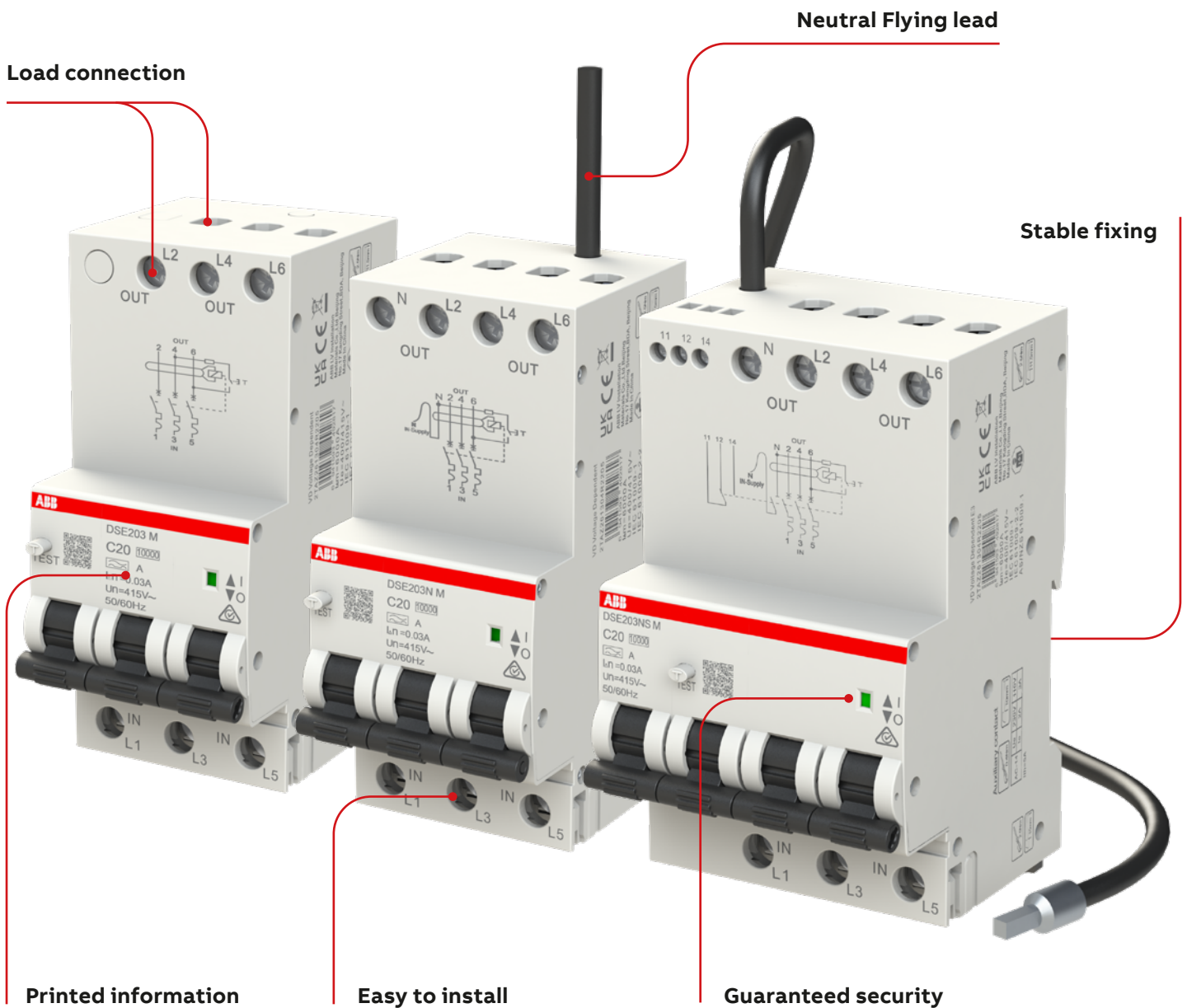
N. of poles	Rated residual current IΔn	Rated Current	Bbn 8012542 EAN	Order details		Weight 1 piece [kg]	Pack unit pc.
				Type code	Order code		
C characteristic							
1P+N	10	6	077138	DSE201 M C6 AC10	2CSR275051R0064	0.200	1
		10	077039	DSE201 M C10 AC10	2CSR275051R0104	0.200	1
		16	076933	DSE201 M C16 AC10	2CSR275051R0164	0.200	1
		20	790532	DSE201 M C20 AC10	2CSR275051R0204	0.200	1
		25	076834	DSE201 M C25 AC10	2CSR275051R0254	0.200	1
		32	076735	DSE201 M C32 AC10	2CSR275051R0324	0.200	1
		40	076636	DSE201 M C40 AC10	2CSR275051R0404	0.200	1
		50	076537	DSE201 M C50 AC10	2CSR275051R0504	0.200	1
1P+N	30	6	266235	DSE201 M C6 AC30	2CSR275051R1064	0.200	1
		10	266136	DSE201 M C10 AC30	2CSR275051R1104	0.200	1
		16	266037	DSE201 M C16 AC30	2CSR275051R1164	0.200	1
		20	265931	DSE201 M C20 AC30	2CSR275051R1204	0.200	1
		25	790839	DSE201 M C25 AC30	2CSR275051R1254	0.200	1
		32	265832	DSE201 M C32 AC30	2CSR275051R1324	0.200	1
		40	353232	DSE201 M C40 AC30	2CSR275051R1404	0.200	1
		50	518235	DSE201 M C50 AC30	2CSR275051R1504	0.200	1
1P+N	100	6	186830	DSE201 M C6 AC100	2CSR275051R2064	0.200	1
		10	352235	DSE201 M C10 AC100	2CSR275051R2104	0.200	1
		16	186731	DSE201 M C16 AC100	2CSR275051R2164	0.200	1
		20	352136	DSE201 M C20 AC100	2CSR275051R2204	0.200	1
		25	263937	DSE201 M C25 AC100	2CSR275051R2254	0.200	1
		32	263838	DSE201 M C32 AC100	2CSR275051R2324	0.200	1
		40	263739	DSE201 M C40 AC100	2CSR275051R2404	0.200	1
		50	263630	DSE201 M C50 AC100	2CSR275051R2504	0.200	1
1P+N	300	6	263531	DSE201 M C6 AC300	2CSR275051R3064	0.200	1
		10	518334	DSE201 M C10 AC300	2CSR275051R3104	0.200	1
		16	263432	DSE201 M C16 AC300	2CSR275051R3164	0.200	1
		20	186038	DSE201 M C20 AC300	2CSR275051R3204	0.200	1
		25	352037	DSE201 M C25 AC300	2CSR275051R3254	0.200	1
		32	185932	DSE201 M C32 AC300	2CSR275051R3324	0.200	1
		40	185833	DSE201 M C40 AC300	2CSR275051R3404	0.200	1
		50	185734	DSE201 M C50 AC300	2CSR275051R3504	0.200	1

DSE203 M eRCBO 3P 3M

DSE203N M eRCBO 3P+N 3M

DSE203NS M eRCBO 3P+ Nsw 4M

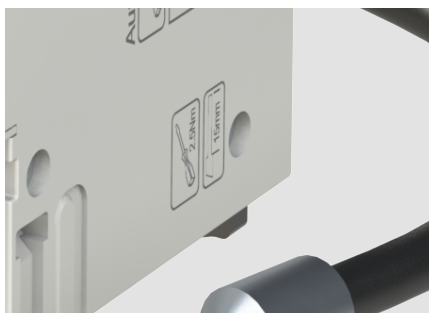
Products at a glance





Guaranteed security

The Contact Position Indicator (CPI) provides a clear visual indication of the contact status, operating independently from the toggle position. A green color indicates that the contacts are open, while a red color signifies that the contacts are closed.



Stable fixing

The device features two clips located on the bottom side, which ensure secure and stable mounting on both chassis and DIN-Rail systems. This design helps maintain the device's position during use, enhancing safety and reliability.



Printed information

Main technical specifications and information are printed directly on the front side of the device. This ensures that important details are easily visible even after installation, providing quick and convenient reference for users and technicians.



Monitor contacts status

DSE203NS M series is integrated with auxiliary contact, giving the possibility to monitor the status of the contacts.



Easy to install

The device supports supply connections from the bottom and load connection from the top terminals, for quick installations in chassis distribution boards and on DIN-Rail systems.



Neutral Flying lead

The neutral connection is supplied from the top via a solid cable, except for DSE203 M where the neutral is not present. The neutral is unswitched on DSE203N M and switched on DSE203NS M.

DSE203xx x Datasheet

Technical features

			DSE203N M	DSE203M	DSE203NS M
Standards			IEC 61009-1; IEC 61009-2-2; AS/NZS 61009.1		
Electrical features					
Type (wave form of the earth leakage sensed)			A		
Number of poles			3P+N	3P	3P+N (switched)
Rated current I_n	A		$6 \leq I_n \leq 63$		
Rated sensitivity $I_{\Delta n}$	A		0.01; 0.03; 0.1; 0.3	0.03; 0.1; 0.3	0.03; 0.1; 0.3
Rated operational voltage U_e	V		400/415		
Rated Insulation voltage U_i acc. to IEC/EN 60664-1	V		500V AC/DC		
Overvoltage category			III		
Pollution degree			2		
Operating voltage of circuit test U_t	V		204 - 457		
Max operating voltage	V		457		
Min. operating voltage for protection against $I_{\Delta n}$ residual sinusoidal alternating currents	V		150		
Rated frequency f	Hz		50/60		
Rated short circuit breaking capacity acc. to IEC/EN 61009-1	I_{cn}	A	10000		
Rated residual breaking capacity $I_{\Delta m}$ to IEC 61009-1	$I_{\Delta m}$	A	6000		
Grid distance	mm		60		
Rated impulse withstand voltage U_{imp} (1.2/50 μ s)	kV		4		
Dielectric test voltage at ind. freq. for 1 min.	kV		2 kV (50 / 60Hz)		
Thermomagnetic release - characteristic	B: $3 I_n \leq I_m \leq 5 I_n$		■		
	C: $5 I_n \leq I_m \leq 10 I_n$		■		
	D: $10 I_n \leq I_m \leq 20 I_n$		■		
Mechanical features					
Housing type			Insulation group I		
Toggle type			Insulation group II		
Contact position indication (CPI)			Green/Red window		
Electrical Endurance		cycles (OFF-ON-OFF)	10000		
Mechanical Endurance		cycles (OFF-ON-OFF)	20000		
Protection degree acc. to EN 60529	housing terminals		IP40 IP20		
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%		
Reference temperature for tripping characteristics		°C	30		
Ambient temperature (with daily average $\leq +35$ °C)		°C	-5...+55		
Storage temperature		°C	-25...+70		
Installation					
Terminal type	top / bottom		pillar terminals		
Cross-section of conductors	top / bottom	mm ²	16/16 flexible; 25/25 rigid		
Cross-section of busbars	top / bottom	mm ²	10/10		
Tightening torque		Nm	2.5		
Wire Stripping Length	top / bottom	mm	11.5/15		
Screwdriver			No. 2 Pozidrive		
Neutral cable	Lenght	mm	1000	-	1000
	Section	mm ²	6...25A: 2.5mm ² ; 32, 40A: 4mm ² ; 50, 63A: 6mm ²	-	6...25A: 2.5mm ² ; 32-40A: 4mm ² ; 50-63A: 6mm ²
	Color		Black	-	Black
Mounting type			on DIN rail EN 60715 (35mm) by means of mounting clip		
Mounting position			Vertical & Horizontal		
Supply from			Bottom terminals		
Dimensions and weight					
Dimensions (H x D x W)	mm		117.5 x 71.6 x 53.4	117.5 x 71.6 x 53.4	117.5 x 71.6 x 71.2
Weight	g		549	488	637
Integrated auxiliary contact features					
Utilization category	AC- 14		-	-	2A/230V; 3A/110V
Conventional free air thermal current	I_{th}	A	-	-	5
Tightening torque		Nm	-	-	0.4
Wire Stripping Length		mm	-	-	10
Cross-section of conductors		mm ²	-	-	1.5

DSE203 M

Ordering data



DSE203 M: 3P eRCBO

Function: protection and control of the circuits against overloads and short-circuits; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact ($I_{\Delta n} = 30 \text{ mA}$). Voltage dependent RCBO.

Applications: residential, commercial, industrial

Standard: IEC 61009-1; IEC 61009-2-2; AS/NZS 61009.1

N. Poles	Breaking capacity	Type	Sensitivity $I_{\Delta n} \text{ mA}$	Tripping Char.	Rated Current $I_n \text{ A}$	EAN	Order details		Weight 1 piece kg	Pack unit pc.
							Type code	Order code		
3	10 kA	A	30	B	6	6941593492961	DSE203 M B6 A30	2TAZ261304R2064	0.488	1
					10	6941593492978	DSE203 M B10 A30	2TAZ261304R2104	0.488	1
					16	6941593492985	DSE203 M B16 A30	2TAZ261304R2164	0.488	1
					20	6941593492992	DSE203 M B20 A30	2TAZ261304R2204	0.488	1
					25	6941593493005	DSE203 M B25 A30	2TAZ261304R2254	0.488	1
					32	6941593493012	DSE203 M B32 A30	2TAZ261304R2324	0.488	1
					40	6941593493029	DSE203 M B40 A30	2TAZ261304R2404	0.488	1
					50	6941593493036	DSE203 M B50 A30	2TAZ261304R2504	0.488	1
					63	6941593493043	DSE203 M B63 A30	2TAZ261304R2634	0.488	1
				C	6	6941593492787	DSE203 M C6 A30	2TAZ261304R2065	0.488	1
					10	6941593492794	DSE203 M C10 A30	2TAZ261304R2105	0.488	1
					16	6941593492800	DSE203 M C16 A30	2TAZ261304R2165	0.488	1
					20	6941593492817	DSE203 M C20 A30	2TAZ261304R2205	0.488	1
					25	6941593492824	DSE203 M C25 A30	2TAZ261304R2255	0.488	1
					32	6941593492831	DSE203 M C32 A30	2TAZ261304R2325	0.488	1
					40	6941593492848	DSE203 M C40 A30	2TAZ261304R2405	0.488	1
					50	6941593492855	DSE203 M C50 A30	2TAZ261304R2505	0.488	1
					63	6941593492862	DSE203 M C63 A30	2TAZ261304R2635	0.488	1
				D	6	6941593492879	DSE203 M D6 A30	2TAZ261304R2061	0.488	1
					10	6941593492886	DSE203 M D10 A30	2TAZ261304R2101	0.488	1
					16	6941593492893	DSE203 M D16 A30	2TAZ261304R2161	0.488	1
					20	6941593492909	DSE203 M D20 A30	2TAZ261304R2201	0.488	1
					25	6941593492916	DSE203 M D25 A30	2TAZ261304R2251	0.488	1
					32	6941593492923	DSE203 M D32 A30	2TAZ261304R2321	0.488	1
					40	6941593492930	DSE203 M D40 A30	2TAZ261304R2401	0.488	1
					50	6941593492947	DSE203 M D50 A30	2TAZ261304R2501	0.488	1
					63	6941593492954	DSE203 M D63 A30	2TAZ261304R2631	0.488	1

N. Poles	Breaking capacity	Type	Sensitivity $I_{\Delta n}$ mA	Tripping Char.	Rated Current I_n A	EAN	Order details		Weight 1 piece kg	Pack unit pc.
							Type code	Order code		
3	10 kA	A	100	B	6	6941593493234	DSE203 M B6 A100	2TAZ261304R3064	0.488	1
					10	6941593493241	DSE203 M B10 A100	2TAZ261304R3104	0.488	1
					16	6941593493258	DSE203 M B16 A100	2TAZ261304R3164	0.488	1
					20	6941593493265	DSE203 M B20 A100	2TAZ261304R3204	0.488	1
					25	6941593493272	DSE203 M B25 A100	2TAZ261304R3254	0.488	1
					32	6941593493289	DSE203 M B32 A100	2TAZ261304R3324	0.488	1
					40	6941593493296	DSE203 M B40 A100	2TAZ261304R3404	0.488	1
					50	6941593493302	DSE203 M B50 A100	2TAZ261304R3504	0.488	1
					63	6941593493319	DSE203 M B63 A100	2TAZ261304R3634	0.488	1
				C	6	6941593493050	DSE203 M C6 A100	2TAZ261304R3065	0.488	1
					10	6941593493067	DSE203 M C10 A100	2TAZ261304R3105	0.488	1
					16	6941593493074	DSE203 M C16 A100	2TAZ261304R3165	0.488	1
					20	6941593493081	DSE203 M C20 A100	2TAZ261304R3205	0.488	1
					25	6941593493098	DSE203 M C25 A100	2TAZ261304R3255	0.488	1
					32	6941593493104	DSE203 M C32 A100	2TAZ261304R3325	0.488	1
					40	6941593493111	DSE203 M C40 A100	2TAZ261304R3405	0.488	1
					50	6941593493128	DSE203 M C50 A100	2TAZ261304R3505	0.488	1
					63	6941593493135	DSE203 M C63 A100	2TAZ261304R3635	0.488	1
				D	6	6941593493142	DSE203 M D6 A100	2TAZ261304R3061	0.488	1
					10	6941593493159	DSE203 M D10 A100	2TAZ261304R3101	0.488	1
					16	6941593493166	DSE203 M D16 A100	2TAZ261304R3161	0.488	1
					20	6941593493173	DSE203 M D20 A100	2TAZ261304R3201	0.488	1
					25	6941593493180	DSE203 M D25 A100	2TAZ261304R3251	0.488	1
					32	6941593493197	DSE203 M D32 A100	2TAZ261304R3321	0.488	1
					40	6941593493203	DSE203 M D40 A100	2TAZ261304R3401	0.488	1
					50	6941593493210	DSE203 M D50 A100	2TAZ261304R3501	0.488	1

N. Poles	Breaking capacity	Type	Sensitivity $I_{\Delta n}$ mA	Tripping Char.	Rated Current I_n A	EAN	Order details		Weight 1 piece kg	Pack unit pc.
							Type code	Order code		
3	10 kA	A	300	B	6	6941593493500	DSE203 M B6 A300	2TAZ261304R4064	0.488	1
					10	6941593493517	DSE203 M B10 A300	2TAZ261304R4104	0.488	1
					16	6941593493524	DSE203 M B16 A300	2TAZ261304R4164	0.488	1
					20	6941593493531	DSE203 M B20 A300	2TAZ261304R4204	0.488	1
					25	6941593493548	DSE203 M B25 A300	2TAZ261304R4254	0.488	1
					32	6941593493555	DSE203 M B32 A300	2TAZ261304R4324	0.488	1
					40	6941593493562	DSE203 M B40 A300	2TAZ261304R4404	0.488	1
					50	6941593493579	DSE203 M B50 A300	2TAZ261304R4504	0.488	1
					63	6941593493586	DSE203 M B63 A300	2TAZ261304R4634	0.488	1
				C	6	6941593493326	DSE203 M C6 A300	2TAZ261304R4065	0.488	1
					10	6941593493333	DSE203 M C10 A300	2TAZ261304R4105	0.488	1
					16	6941593493340	DSE203 M C16 A300	2TAZ261304R4165	0.488	1
					20	6941593493357	DSE203 M C20 A300	2TAZ261304R4205	0.488	1
					25	6941593493364	DSE203 M C25 A300	2TAZ261304R4255	0.488	1
					32	6941593493371	DSE203 M C32 A300	2TAZ261304R4325	0.488	1
					40	6941593493388	DSE203 M C40 A300	2TAZ261304R4405	0.488	1
					50	6941593493395	DSE203 M C50 A300	2TAZ261304R4505	0.488	1
					63	6941593493401	DSE203 M C63 A300	2TAZ261304R4635	0.488	1
				D	6	6941593493418	DSE203 M D6 A300	2TAZ261304R4061	0.488	1
					10	6941593493425	DSE203 M D10 A300	2TAZ261304R4101	0.488	1
					16	6941593493432	DSE203 M D16 A300	2TAZ261304R4161	0.488	1
					20	6941593493449	DSE203 M D20 A300	2TAZ261304R4201	0.488	1
					25	6941593493456	DSE203 M D25 A300	2TAZ261304R4251	0.488	1
					32	6941593493463	DSE203 M D32 A300	2TAZ261304R4321	0.488	1
					40	6941593493470	DSE203 M D40 A300	2TAZ261304R4401	0.488	1
					50	6941593493487	DSE203 M D50 A300	2TAZ261304R4501	0.488	1
					63	6941593493494	DSE203 M D63 A300	2TAZ261304R4631	0.488	1

DSE203N M

Ordering data



DSE203N M: 3P+N eRCBO

Function: protection and control of the circuits against overloads and short-circuits; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact ($I_{\Delta n} = 30 \text{ mA}$). The neutral is unswitched. Voltage dependent RCBO.

Applications: residential, commercial, industrial

Standard: IEC 61009-1; IEC 61009-2-2; AS/NZS 61009.1

N. Poles	Breaking capacity	Type	Sensitivity $I_{\Delta n} \text{ mA}$	Tripping Char.	Rated Current $I_n \text{ A}$	EAN	Order details		Weight 1 piece kg	Pack unit pc.
							Type code	Order code		
3+N	10 kA	A	10	B	6	6941593441662	DSE203N M B6 A10	2TAZ233414R1065	0.549	1
					10	6941593441679	DSE203N M B10 A10	2TAZ233414R1105	0.549	1
					13	6941593441686	DSE203N M B13 A10	2TAZ233414R1135	0.549	1
					16	6941593441693	DSE203N M B16 A10	2TAZ233414R1165	0.549	1
					20	6941593441709	DSE203N M B20 A10	2TAZ233414R1205	0.549	1
					25	6941593441716	DSE203N M B25 A10	2TAZ233414R1255	0.549	1
					32	6941593441723	DSE203N M B32 A10	2TAZ233414R1325	0.549	1
					40	6941593441730	DSE203N M B40 A10	2TAZ233414R1405	0.549	1
					50	6941593441747	DSE203N M B50 A10	2TAZ233414R1505	0.549	1
					63	6941593441754	DSE203N M B63 A10	2TAZ233414R1635	0.549	1
				C	6	6941593441761	DSE203N M C6 A10	2TAZ233414R1064	0.549	1
					10	6941593441778	DSE203N M C10 A10	2TAZ233414R1104	0.549	1
					13	6941593441785	DSE203N M C13 A10	2TAZ233414R1134	0.549	1
					16	6941593441792	DSE203N M C16 A10	2TAZ233414R1164	0.549	1
					20	6941593441808	DSE203N M C20 A10	2TAZ233414R1204	0.549	1
					25	6941593441815	DSE203N M C25 A10	2TAZ233414R1254	0.549	1
					32	6941593441822	DSE203N M C32 A10	2TAZ233414R1324	0.549	1
					40	6941593441839	DSE203N M C40 A10	2TAZ233414R1404	0.549	1
					50	6941593441846	DSE203N M C50 A10	2TAZ233414R1504	0.549	1
					63	6941593441853	DSE203N M C63 A10	2TAZ233414R1634	0.549	1
				D	6	6941593441860	DSE203N M D6 A10	2TAZ233414R1061	0.549	1
					10	6941593441877	DSE203N M D10 A10	2TAZ233414R1101	0.549	1
					13	6941593441884	DSE203N M D13 A10	2TAZ233414R1131	0.549	1
					16	6941593441891	DSE203N M D16 A10	2TAZ233414R1161	0.549	1
					20	6941593441907	DSE203N M D20 A10	2TAZ233414R1201	0.549	1
					25	6941593441914	DSE203N M D25 A10	2TAZ233414R1251	0.549	1
					32	6941593441921	DSE203N M D32 A10	2TAZ233414R1321	0.549	1
					40	6941593441938	DSE203N M D40 A10	2TAZ233414R1401	0.549	1
					50	6941593441945	DSE203N M D50 A10	2TAZ233414R1501	0.549	1
					63	6941593441952	DSE203N M D63 A10	2TAZ233414R1631	0.549	1

N. Poles	Breaking capacity	Type	Sensitivity $I_{\Delta n}$ mA	Tripping Char.	Rated Current I_n A	EAN	Order details		Weight 1 piece kg	Pack unit pc.
							Type code	Order code		
3+N	10 kA	A	30	B	6	6941593441969	DSE203N M B6 A30	2TAZ233414R2065	0.549	1
					10	6941593441976	DSE203N M B10 A30	2TAZ233414R2105	0.549	1
					13	6941593441983	DSE203N M B13 A30	2TAZ233414R2135	0.549	1
					16	6941593441990	DSE203N M B16 A30	2TAZ233414R2165	0.549	1
					20	6941593442003	DSE203N M B20 A30	2TAZ233414R2205	0.549	1
					25	6941593442010	DSE203N M B25 A30	2TAZ233414R2255	0.549	1
					32	6941593442027	DSE203N M B32 A30	2TAZ233414R2325	0.549	1
					40	6941593442034	DSE203N M B40 A30	2TAZ233414R2405	0.549	1
					50	6941593442041	DSE203N M B50 A30	2TAZ233414R2505	0.549	1
					63	6941593442058	DSE203N M B63 A30	2TAZ233414R2635	0.549	1
				C	6	6941593442065	DSE203N M C6 A30	2TAZ233414R2064	0.549	1
					10	6941593442072	DSE203N M C10 A30	2TAZ233414R2104	0.549	1
					13	6941593442089	DSE203N M C13 A30	2TAZ233414R2134	0.549	1
					16	6941593442096	DSE203N M C16 A30	2TAZ233414R2164	0.549	1
					20	6941593442102	DSE203N M C20 A30	2TAZ233414R2204	0.549	1
					25	6941593442119	DSE203N M C25 A30	2TAZ233414R2254	0.549	1
					32	6941593442126	DSE203N M C32 A30	2TAZ233414R2324	0.549	1
					40	6941593442133	DSE203N M C40 A30	2TAZ233414R2404	0.549	1
					50	6941593442140	DSE203N M C50 A30	2TAZ233414R2504	0.549	1
					63	6941593442157	DSE203N M C63 A30	2TAZ233414R2634	0.549	1
				D	6	6941593442164	DSE203N M D6 A30	2TAZ233414R2061	0.549	1
					10	6941593442171	DSE203N M D10 A30	2TAZ233414R2101	0.549	1
					13	6941593442188	DSE203N M D13 A30	2TAZ233414R2131	0.549	1
					16	6941593442195	DSE203N M D16 A30	2TAZ233414R2161	0.549	1
					20	6941593442201	DSE203N M D20 A30	2TAZ233414R2201	0.549	1
					25	6941593442218	DSE203N M D25 A30	2TAZ233414R2251	0.549	1
					32	6941593442225	DSE203N M D32 A30	2TAZ233414R2321	0.549	1
					40	6941593442232	DSE203N M D40 A30	2TAZ233414R2401	0.549	1
					50	6941593442249	DSE203N M D50 A30	2TAZ233414R2501	0.549	1
					63	6941593442256	DSE203N M D63 A30	2TAZ233414R2631	0.549	1

N. Poles	Breaking capacity	Type	Sensitivity $I_{\Delta n}$ mA	Tripping Char.	Rated Current I_n A	EAN	Order details		Weight 1 piece kg	Pack unit pc.
							Type code	Order code		
3+N	10 kA	A	100	B	6	6941593442263	DSE203N M B6 A100	2TAZ233414R3065	0.549	1
					10	6941593442270	DSE203N M B10 A100	2TAZ233414R3105	0.549	1
					13	6941593442287	DSE203N M B13 A100	2TAZ233414R3135	0.549	1
					16	6941593442294	DSE203N M B16 A100	2TAZ233414R3165	0.549	1
					20	6941593442300	DSE203N M B20 A100	2TAZ233414R3205	0.549	1
					25	6941593442317	DSE203N M B25 A100	2TAZ233414R3255	0.549	1
					32	6941593442324	DSE203N M B32 A100	2TAZ233414R3325	0.549	1
					40	6941593442331	DSE203N M B40 A100	2TAZ233414R3405	0.549	1
					50	6941593442348	DSE203N M B50 A100	2TAZ233414R3505	0.549	1
					63	6941593442355	DSE203N M B63 A100	2TAZ233414R3635	0.549	1
				C	6	6941593442362	DSE203N M C6 A100	2TAZ233414R3064	0.549	1
					10	6941593442379	DSE203N M C10 A100	2TAZ233414R3104	0.549	1
					13	6941593442386	DSE203N M C13 A100	2TAZ233414R3134	0.549	1
					16	6941593442393	DSE203N M C16 A100	2TAZ233414R3164	0.549	1
					20	6941593442409	DSE203N M C20 A100	2TAZ233414R3204	0.549	1
					25	6941593442416	DSE203N M C25 A100	2TAZ233414R3254	0.549	1
					32	6941593442423	DSE203N M C32 A100	2TAZ233414R3324	0.549	1
					40	6941593442430	DSE203N M C40 A100	2TAZ233414R3404	0.549	1
					50	6941593442447	DSE203N M C50 A100	2TAZ233414R3504	0.549	1
					63	6941593442454	DSE203N M C63 A100	2TAZ233414R3634	0.549	1
				D	6	6941593442461	DSE203N M D6 A100	2TAZ233414R3061	0.549	1
					10	6941593442478	DSE203N M D10 A100	2TAZ233414R3101	0.549	1
					13	6941593442485	DSE203N M D13 A100	2TAZ233414R3131	0.549	1
					16	6941593442492	DSE203N M D16 A100	2TAZ233414R3161	0.549	1
					20	6941593442508	DSE203N M D20 A100	2TAZ233414R3201	0.549	1
					25	6941593442515	DSE203N M D25 A100	2TAZ233414R3251	0.549	1
					32	6941593442522	DSE203N M D32 A100	2TAZ233414R3321	0.549	1
					40	6941593442539	DSE203N M D40 A100	2TAZ233414R3401	0.549	1
					50	6941593442546	DSE203N M D50 A100	2TAZ233414R3501	0.549	1
					63	6941593442553	DSE203N M D63 A100	2TAZ233414R3631	0.549	1

N. Poles	Breaking capacity	Type	Sensitivity $I_{\Delta n}$ mA	Tripping Char.	Rated Current I_n A	EAN	Order details		Weight 1 piece kg	Pack unit pc.
							Type code	Order code		
3+N	10 kA	A	300	B	6	6941593442560	DSE203N M B6 A300	2TAZ233414R4065	0.549	1
					10	6941593442577	DSE203N M B10 A300	2TAZ233414R4105	0.549	1
					13	6941593442584	DSE203N M B13 A300	2TAZ233414R4135	0.549	1
					16	6941593442591	DSE203N M B16 A300	2TAZ233414R4165	0.549	1
					20	6941593442607	DSE203N M B20 A300	2TAZ233414R4205	0.549	1
					25	6941593442614	DSE203N M B25 A300	2TAZ233414R4255	0.549	1
					32	6941593442621	DSE203N M B32 A300	2TAZ233414R4325	0.549	1
					40	6941593442638	DSE203N M B40 A300	2TAZ233414R4405	0.549	1
					50	6941593442645	DSE203N M B50 A300	2TAZ233414R4505	0.549	1
					63	6941593442652	DSE203N M B63 A300	2TAZ233414R4635	0.549	1
				C	6	6941593442669	DSE203N M C6 A300	2TAZ233414R4064	0.549	1
					10	6941593442676	DSE203N M C10 A300	2TAZ233414R4104	0.549	1
					13	6941593442683	DSE203N M C13 A300	2TAZ233414R4134	0.549	1
					16	6941593442690	DSE203N M C16 A300	2TAZ233414R4164	0.549	1
					20	6941593442706	DSE203N M C20 A300	2TAZ233414R4204	0.549	1
					25	6941593442713	DSE203N M C25 A300	2TAZ233414R4254	0.549	1
					32	6941593442720	DSE203N M C32 A300	2TAZ233414R4324	0.549	1
					40	6941593442737	DSE203N M C40 A300	2TAZ233414R4404	0.549	1
					50	6941593442744	DSE203N M C50 A300	2TAZ233414R4504	0.549	1
					63	6941593442751	DSE203N M C63 A300	2TAZ233414R4634	0.549	1
				D	6	6941593442768	DSE203N M D6 A300	2TAZ233414R4061	0.549	1
					10	6941593442775	DSE203N M D10 A300	2TAZ233414R4101	0.549	1
					13	6941593442782	DSE203N M D13 A300	2TAZ233414R4131	0.549	1
					16	6941593442799	DSE203N M D16 A300	2TAZ233414R4161	0.549	1
					20	6941593442805	DSE203N M D20 A300	2TAZ233414R4201	0.549	1
					25	6941593442812	DSE203N M D25 A300	2TAZ233414R4251	0.549	1
					32	6941593442829	DSE203N M D32 A300	2TAZ233414R4321	0.549	1
					40	6941593442836	DSE203N M D40 A300	2TAZ233414R4401	0.549	1
					50	6941593442843	DSE203N M D50 A300	2TAZ233414R4501	0.549	1
					63	6941593442850	DSE203N M D63 A300	2TAZ233414R4631	0.549	1

DSE203NS M

Ordering data



DSE203NS M: 3P+Nsw eRCBO

Function: protection and control of the circuits against overloads and short-circuits; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact ($I_{\Delta n} = 30 \text{ mA}$). Integrated with auxiliary contact. The neutral is switched. Voltage dependent RCBO.

Applications: residential, commercial, industrial

Standard: IEC 61009-1; IEC 61009-2-2; AS/NZS 61009.1

N. Poles	Breaking capacity	Type	Sensitivity $I_{\Delta n}$ mA	Tripping Char.	Rated Current I_n A	EAN	Order details		Weight 1 piece kg	Pack unit pc.
							Type code	Order code		
3P+Nsw	10 kA	A	30	B	6	6941593493777	DSE203NS M B6 A30	2TAZ262414R2064	0.637	1
					10	6941593493784	DSE203NS M B10 A30	2TAZ262414R2104	0.637	1
					16	6941593493791	DSE203NS M B16 A30	2TAZ262414R2164	0.637	1
					20	6941593493807	DSE203NS M B20 A30	2TAZ262414R2204	0.637	1
					25	6941593493814	DSE203NS M B25 A30	2TAZ262414R2254	0.637	1
					32	6941593493821	DSE203NS M B32 A30	2TAZ262414R2324	0.637	1
					40	6941593493838	DSE203NS M B40 A30	2TAZ262414R2404	0.637	1
					50	6941593493845	DSE203NS M B50 A30	2TAZ262414R2504	0.637	1
					63	6941593493852	DSE203NS M B63 A30	2TAZ262414R2634	0.637	1
				C	6	6941593493593	DSE203NS M C6 A30	2TAZ262414R2065	0.637	1
					10	6941593493609	DSE203NS M C10 A30	2TAZ262414R2105	0.637	1
					16	6941593493616	DSE203NS M C16 A30	2TAZ262414R2165	0.637	1
					20	6941593493623	DSE203NS M C20 A30	2TAZ262414R2205	0.637	1
					25	6941593493630	DSE203NS M C25 A30	2TAZ262414R2255	0.637	1
					32	6941593493647	DSE203NS M C32 A30	2TAZ262414R2325	0.637	1
					40	6941593493654	DSE203NS M C40 A30	2TAZ262414R2405	0.637	1
					50	6941593493661	DSE203NS M C50 A30	2TAZ262414R2505	0.637	1
					63	6941593493678	DSE203NS M C63 A30	2TAZ262414R2635	0.637	1
				D	6	6941593493685	DSE203NS M D6 A30	2TAZ262414R2061	0.637	1
					10	6941593493692	DSE203NS M D10 A30	2TAZ262414R2101	0.637	1
					16	6941593493708	DSE203NS M D16 A30	2TAZ262414R2161	0.637	1
					20	6941593493715	DSE203NS M D20 A30	2TAZ262414R2201	0.637	1
					25	6941593493722	DSE203NS M D25 A30	2TAZ262414R2251	0.637	1
					32	6941593493739	DSE203NS M D32 A30	2TAZ262414R2321	0.637	1
					40	6941593493746	DSE203NS M D40 A30	2TAZ262414R2401	0.637	1
					50	6941593493753	DSE203NS M D50 A30	2TAZ262414R2501	0.637	1
					63	6941593493760	DSE203NS M D63 A30	2TAZ262414R2631	0.637	1

N. Poles	Breaking capacity	Type	Sensitivity $I_{\Delta n}$ mA	Tripping Char.	Rated Current I_n A	EAN	Order details		Weight 1 piece kg	Pack unit pc.
							Type code	Order code		
3P+Nsw	10 kA	A	100	B	6	6941593494040	DSE203NS M B6 A100	2TAZ262414R3064	0.637	1
					10	6941593494057	DSE203NS M B10 A100	2TAZ262414R3104	0.637	1
					16	6941593494064	DSE203NS M B16 A100	2TAZ262414R3164	0.637	1
					20	6941593494071	DSE203NS M B20 A100	2TAZ262414R3204	0.637	1
					25	6941593494088	DSE203NS M B25 A100	2TAZ262414R3254	0.637	1
					32	6941593494095	DSE203NS M B32 A100	2TAZ262414R3324	0.637	1
					40	6941593494101	DSE203NS M B40 A100	2TAZ262414R3404	0.637	1
					50	6941593494118	DSE203NS M B50 A100	2TAZ262414R3504	0.637	1
					63	6941593494125	DSE203NS M B63 A100	2TAZ262414R3634	0.637	1
				C	6	6941593493869	DSE203NS M C6 A100	2TAZ262414R3065	0.637	1
					10	6941593493876	DSE203NS M C10 A100	2TAZ262414R3105	0.637	1
					16	6941593493883	DSE203NS M C16 A100	2TAZ262414R3165	0.637	1
					20	6941593493890	DSE203NS M C20 A100	2TAZ262414R3205	0.637	1
					25	6941593493906	DSE203NS M C25 A100	2TAZ262414R3255	0.637	1
					32	6941593493913	DSE203NS M C32 A100	2TAZ262414R3325	0.637	1
					40	6941593493920	DSE203NS M C40 A100	2TAZ262414R3405	0.637	1
					50	6941593493937	DSE203NS M C50 A100	2TAZ262414R3505	0.637	1
					63	6941593493944	DSE203NS M C63 A100	2TAZ262414R3635	0.637	1
				D	6	6941593493951	DSE203NS M D6 A100	2TAZ262414R3061	0.637	1
					10	6941593493968	DSE203NS M D10 A100	2TAZ262414R3101	0.637	1
					16	6941593493975	DSE203NS M D16 A100	2TAZ262414R3161	0.637	1
					20	6941593493982	DSE203NS M D20 A100	2TAZ262414R3201	0.637	1
					25	6941593493999	DSE203NS M D25 A100	2TAZ262414R3251	0.637	1
					32	6941593494002	DSE203NS M D32 A100	2TAZ262414R3321	0.637	1
					40	6941593494019	DSE203NS M D40 A100	2TAZ262414R3401	0.637	1
					50	6941593494026	DSE203NS M D50 A100	2TAZ262414R3501	0.637	1
					63	6941593494033	DSE203NS M D63 A100	2TAZ262414R3631	0.637	1

N. Poles	Breaking capacity	Type	Sensitivity $I_{\Delta n}$ mA	Tripping Char.	Rated Current I_n A	EAN	Order details		Weight 1 piece kg	Pack unit pc.
							Type code	Order code		
3P+Nsw	10 kA	A	300	B	6	6941593494316	DSE203NS M B6 A300	2TAZ262414R4064	0.637	1
					10	6941593494323	DSE203NS M B10 A300	2TAZ262414R4104	0.637	1
					16	6941593494330	DSE203NS M B16 A300	2TAZ262414R4164	0.637	1
					20	6941593494347	DSE203NS M B20 A300	2TAZ262414R4204	0.637	1
					25	6941593494354	DSE203NS M B25 A300	2TAZ262414R4254	0.637	1
					32	6941593494361	DSE203NS M B32 A300	2TAZ262414R4324	0.637	1
					40	6941593494378	DSE203NS M B40 A300	2TAZ262414R4404	0.637	1
					50	6941593494385	DSE203NS M B50 A300	2TAZ262414R4504	0.637	1
					63	6941593494392	DSE203NS M B63 A300	2TAZ262414R4634	0.637	1
				C	6	6941593494132	DSE203NS M C6 A300	2TAZ262414R4065	0.637	1
					10	6941593494149	DSE203NS M C10 A300	2TAZ262414R4105	0.637	1
					16	6941593494156	DSE203NS M C16 A300	2TAZ262414R4165	0.637	1
					20	6941593494163	DSE203NS M C20 A300	2TAZ262414R4205	0.637	1
					25	6941593494170	DSE203NS M C25 A300	2TAZ262414R4255	0.637	1
					32	6941593494187	DSE203NS M C32 A300	2TAZ262414R4325	0.637	1
					40	6941593494194	DSE203NS M C40 A300	2TAZ262414R4405	0.637	1
					50	6941593494200	DSE203NS M C50 A300	2TAZ262414R4505	0.637	1
					63	6941593494217	DSE203NS M C63 A300	2TAZ262414R4635	0.637	1
				D	6	6941593494224	DSE203NS M D6 A300	2TAZ262414R4061	0.637	1
					10	6941593494231	DSE203NS M D10 A300	2TAZ262414R4101	0.637	1
					16	6941593494248	DSE203NS M D16 A300	2TAZ262414R4161	0.637	1
					20	6941593494255	DSE203NS M D20 A300	2TAZ262414R4201	0.637	1
					25	6941593494262	DSE203NS M D25 A300	2TAZ262414R4251	0.637	1
					32	6941593494279	DSE203NS M D32 A300	2TAZ262414R4321	0.637	1
					40	6941593494286	DSE203NS M D40 A300	2TAZ262414R4401	0.637	1
					50	6941593494293	DSE203NS M D50 A300	2TAZ262414R4501	0.637	1
					63	6941593494309	DSE203NS M D63 A300	2TAZ262414R4631	0.637	1

DSN201E

Product at a glance

High performance clips

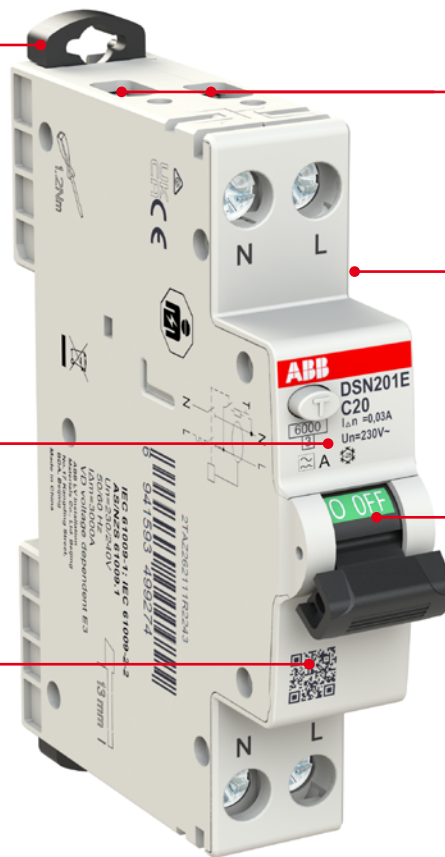
To facilitate the mounting and dismounting operation, guaranteeing an easy removal from a battery of device supplied with busbars.

Technical information

Main technical information are printed on the front side, visible also when the device is installed.

QR code on the front side

Redirecting to ABB product page for a quick access to all product information.



Easy supply

Supply possible from top and bottom side, either with cables or busbars. The neutral is switched

Combination with accessories

Possibility to mount signal and auxiliary contacts of DSCC series on right side.

Guaranteed security

Indication of the contacts status with I-ON/O-OFF indication in green/red on the toggle.

DSN201E

Technical features

DSN201E / DSN201E M		
Standards		IEC 61009-1; IEC 61009-2-2; AS/NZS 61009.1
Electrical features		
Type (wave form of the earth leakage sensed)		AC, A
Number of poles		1P+N
Rated sensitivity I _{Δn}	mA	10, 30
Rated current I _n	A	6 ≤ I _n ≤ 32 (up to 20A for M version)
Rated operational voltage U _e	V	230/240
Rated Insulation voltage U _i acc. to IEC/EN 60664-1	V	500 V AC/DC
Overvoltage category		III
Pollution degree		2
Rated frequency f	Hz	50/60
Min. operating voltage for protection against I _{Δn} residual sinusoidal alternating currents	V	85
Max operating voltage	V	264
Operating voltage of circuit test	V	160–264
Rated short circuit breaking capacity acc. to IEC/EN 61009-1	I _{cn}	A 6 000 / 10 000
Rated residual breaking capacity I _{Δm} to IEC 61009-1	I _{Δm}	A 3 000
Rated short circuit breaking capacity acc. to IEC/EN 60947-2 (only referring to short circuit test)	Ultimate I _{cu}	kA 6; 10
	Service I _{cs}	kA 6
Grid distance	mm	45
Rated impulse withstand voltage U _{imp} . (1.2/50μs)	kV	4
Dielectric test voltage at ind. freq. for 1 min.	kV	2.5 kV (50 / 60Hz)
Tripping characteristic	B: 3 I _n ≤ I _m ≤ 5 I _n	■
	C: 5 I _n ≤ I _m ≤ 10 I _n	■
Energy limiting class		3
Mechanical features		
Hosing type		Insulation group I
Toggle type		Insulation group II
Contact position indication (CPI)		Green/red indication on toggle
Electrical endurance	Cycles (OFF-ON-OFF)	10000
Mechanical endurance	Cycles (OFF-ON-OFF)	20000
Protection degree acc. to EN 60529	housing	IP40
	terminals	IP20
Resistance to Shock acc. to IEC 60068-2-27		40g (x,y,z) - 18 shocks - 5ms half sinusoidal
Resistance to Vibrations acc. to IEC 60068-2-6		1.5 g, 30 min, 0...80 Hz
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 %
Reference temperature for tripping characteristics	°C	30
Ambient temperature (with daily average ≤ +35 °C)	°C	-25....+55
Storage temperature	°C	-25...+70
Installation		
Terminal type	top / bottom	Fail-safe cage terminals
Cross-section of conductors	top / bottom	mm ² 16/16 flexible; 25/25 rigid
Cross-section of busbars	top / bottom	mm ² 10/10
Tightening torque	top / bottom	Nm 1.2/1.2
Wire Stripping Length		mm 13
Screwdriver		No. 2 Pozidrive
Mounting Type		on DIN rail EN 60715 (35 mm) by means of mounting clip
Mounting position		Vertical & Horizontal
Supply from		Top and Botom terminals
Dimensions and weight		
Dimensions (H×D×W)	mm	86×70×17.8
Weight	g	119
Combinationwithauxiliary elements		
Combinable with accessories and auxiliaries		YES, DSCC series

DSN201E

Ordering data



DSN201E: 1P+N eRCBO

Function: protection and control of the circuits against overloads and short-circuits; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact ($I_{\Delta n} = 30 \text{ mA}$). The neutral is switched. Voltage dependent RCBO.

Applications: residential, commercial, industrial

Standard: IEC 61009-1; IEC 61009-2-2; AS/NZS 61009.1

N. poles	Breaking capacity	Type	Sensitivity $I_{\Delta n}$ mA	Tripping Char.	Rated Current I_n		Order details		Weight 1 piece kg	Pack unit pc.
					A	EAN	Type code	Order code		
1P+N	6 kA	AC	30 mA	C	6	6941593498123	DSN201E C6 AC30	2TAZ264111R2064	0.119	1
					10	6941593498130	DSN201E C10 AC30	2TAZ264111R2104	0.119	1
					13	6941593498147	DSN201E C13 AC30	2TAZ264111R2134	0.119	1
					16	6941593498154	DSN201E C16 AC30	2TAZ264111R2164	0.119	1
					20	6941593498161	DSN201E C20 AC30	2TAZ264111R2204	0.119	1
					25	6941593498178	DSN201E C25 AC30	2TAZ264111R2254	0.119	1
					32	6941593498185	DSN201E C32 AC30	2TAZ264111R2324	0.119	1
				B	6	6941593498192	DSN201E B6 AC30	2TAZ264111R2061	0.119	1
					10	6941593498208	DSN201E B10 AC30	2TAZ264111R2101	0.119	1
					13	6941593498215	DSN201E B13 AC30	2TAZ264111R2131	0.119	1
					16	6941593498222	DSN201E B16 AC30	2TAZ264111R2161	0.119	1
					20	6941593498239	DSN201E B20 AC30	2TAZ264111R2201	0.119	1
					25	6941593498246	DSN201E B25 AC30	2TAZ264111R2251	0.119	1
					32	6941593498253	DSN201E B32 AC30	2TAZ264111R2321	0.119	1
		A	10 mA	C	6	6941593498260	DSN201E C6 A10	2TAZ264114R1064	0.119	1
					10	6941593498277	DSN201E C10 A10	2TAZ264114R1104	0.119	1
					13	6941593498284	DSN201E C13 A10	2TAZ264114R1134	0.119	1
					16	6941593498291	DSN201E C16 A10	2TAZ264114R1164	0.119	1
					20	6941593498307	DSN201E C20 A10	2TAZ264114R1204	0.119	1
					25	6941593498314	DSN201E C25 A10	2TAZ264114R1254	0.119	1
					32	6941593498321	DSN201E C32 A10	2TAZ264114R1324	0.119	1
				B	6	6941593498338	DSN201E B6 A10	2TAZ264114R1061	0.119	1
					10	6941593498345	DSN201E B10 A10	2TAZ264114R1101	0.119	1
					13	6941593498352	DSN201E B13 A10	2TAZ264114R1131	0.119	1
					16	6941593498369	DSN201E B16 A10	2TAZ264114R1161	0.119	1
					20	6941593498376	DSN201E B20 A10	2TAZ264114R1201	0.119	1
					25	6941593498383	DSN201E B25 A10	2TAZ264114R1251	0.119	1
					32	6941593498390	DSN201E B32 A10	2TAZ264114R1321	0.119	1
			30 mA	C	6	6941593498406	DSN201E C6 A30	2TAZ264114R2064	0.119	1
					10	6941593498413	DSN201E C10 A30	2TAZ264114R2104	0.119	1
					13	6941593498420	DSN201E C13 A30	2TAZ264114R2134	0.119	1
					16	6941593498437	DSN201E C16 A30	2TAZ264114R2164	0.119	1
					20	6941593498444	DSN201E C20 A30	2TAZ264114R2204	0.119	1
					25	6941593498451	DSN201E C25 A30	2TAZ264114R2254	0.119	1
					32	6941593498468	DSN201E C32 A30	2TAZ264114R2324	0.119	1
				B	6	6941593498475	DSN201E B6 A30	2TAZ264114R2061	0.119	1
					10	6941593498482	DSN201E B10 A30	2TAZ264114R2101	0.119	1
					13	6941593498499	DSN201E B13 A30	2TAZ264114R2131	0.119	1
					16	6941593498505	DSN201E B16 A30	2TAZ264114R2161	0.119	1
					20	6941593498512	DSN201E B20 A30	2TAZ264114R2201	0.119	1
					25	6941593498529	DSN201E B25 A30	2TAZ264114R2251	0.119	1
					32	6941593498536	DSN201E B32 A30	2TAZ264114R2321	0.119	1

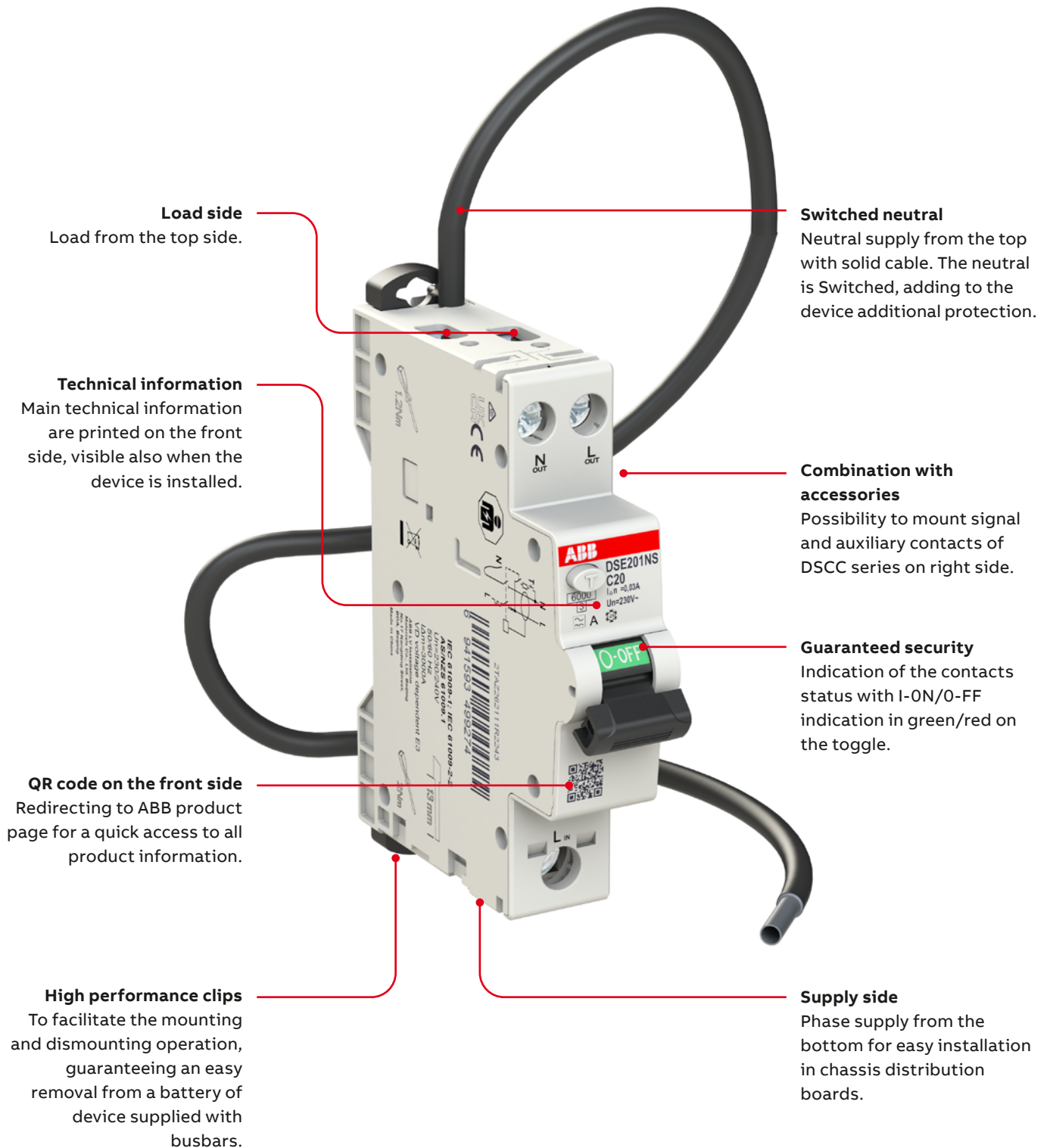
DSN201E

Ordering data

N. poles	Breaking capacity	Type	Sensitiv- ity $I_{\Delta n}$ mA	Tripping Char.	Rated Current I_n		Order details		Weight 1 piece kg	Pack unit pc.
					A	EAN	Type code	Order code		
1P+N	10 kA	A	10 mA	C	6	6941593498543	DSN201E M C6 A10	2TAZ265114R1064	0.119	1
					10	6941593498550	DSN201E M C10 A10	2TAZ265114R1104	0.119	1
					13	6941593498567	DSN201E M C13 A10	2TAZ265114R1134	0.119	1
					16	6941593498574	DSN201E M C16 A10	2TAZ265114R1164	0.119	1
					20	6941593498581	DSN201E M C20 A10	2TAZ265114R1204	0.119	1
				B	6	6941593498598	DSN201E M B6 A10	2TAZ265114R1061	0.119	1
					10	6941593498604	DSN201E M B10 A10	2TAZ265114R1101	0.119	1
					13	6941593498611	DSN201E M B13 A10	2TAZ265114R1131	0.119	1
					16	6941593498628	DSN201E M B16 A10	2TAZ265114R1161	0.119	1
					20	6941593498635	DSN201E M B20 A10	2TAZ265114R1201	0.119	1
			30 mA	C	6	6941593498642	DSN201E M C6 A30	2TAZ265114R2064	0.119	1
					10	6941593498659	DSN201E M C10 A30	2TAZ265114R2104	0.119	1
					13	6941593498666	DSN201E M C13 A30	2TAZ265114R2134	0.119	1
					16	6941593498673	DSN201E M C16 A30	2TAZ265114R2164	0.119	1
					20	6941593498680	DSN201E M C20 A30	2TAZ265114R2204	0.119	1
				B	6	6941593498697	DSN201E M B6 A30	2TAZ265114R2061	0.119	1
					10	6941593498703	DSN201E M B10 A30	2TAZ265114R2101	0.119	1
					13	6941593498710	DSN201E M B13 A30	2TAZ265114R2131	0.119	1
					16	6941593498727	DSN201E M B16 A30	2TAZ265114R2161	0.119	1
					20	6941593498734	DSN201E M B20 A30	2TAZ265114R2201	0.119	1

DSE201 NS

Product at a glance



DSE201 NS

Technical features

DSE201 NS / DSE201 M NS			
Standards		IEC 61009-1; IEC 61009-2-2; AS/NZS 61009.1	
Electrical features			
Type (wave form of the earth leakage sensed)			AC, A
Number of poles			1P+N
Rated sensitivity I _{Δn}	mA		10, 30
Rated current I _n	A		6 ≤ I _n ≤ 32 (up to 20 A for M version)
Rated operational voltage U _e	V		230/240
Rated Insulation voltage U _i acc. to IEC/EN 60664-1	V		500 V AC/DC
Overvoltage category			III
Pollution degree			2
Rated frequency f	Hz		50/60
Min. operating voltage for protection against I _{Δn} residual sinusoidal alternating currents	V		85
Max operating voltage	V		264
Operating voltage of circuit test	V		160–264
Rated short circuit breaking capacity acc. to IEC/EN 61009-1	I _{cn}	A	6 000 / 10 000
Rated residual breaking capacity I _{Δm} to IEC 61009-1	I _{Δm}	A	3 000
Rated short circuit breaking capacity acc. to IEC/EN 60947-2 (only referring to short circuit test)	Ultimate I _{cu}	kA	6; 10
	Service I _{cs}	kA	6
Grid distance		mm	45
Rated impulse withstand voltage U _{imp.} (1.2/50μs)		kV	4
Dielectric test voltage at ind. freq. for 1 min.		kV	2.5 kV (50 / 60Hz)
Tripping characteristic	B: 3 I _n ≤ I _m ≤ 5 I _n		■
	C: 5 I _n ≤ I _m ≤ 10 I _n		■
Energy limiting class			3
Mechanical features			
Housing Type			Insulation group I
Toggle Type			Insulation group II
Contact position indication (CPI)			Green/red indication on toggle
Electrical endurance		cycles (OFF-ON-OFF)	10000
Mechanical endurance		cycles (OFF-ON-OFF)	20000
Protection degree acc. to EN 60529	housing		IP40
	terminals		IP20
Resistance to Shock acc. to IEC 60068-2-27			40g (x,y,z) - 18 shocks - 5ms half sinusoidal
Resistance to Vibrations acc. to IEC 60068-2-6			1.5g, 30 min, 0...80Hz
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 %
Reference temperature for tripping characteristics		°C	30
Ambient temperature (with daily average ≤ +35 °C)		°C	-25...+55°C
Storage temperature		°C	-25...+70
Installation			
Terminal type	top / bottom		Fail-safe cage terminals
Cross-section of conductors	top / bottom	mm²	16/25 flexible; 25/35 rigid
Cross-section of busbars	top / bottom	mm²	10/10
Tightening torque	top / bottom	Nm	1.2/2
Wire Stripping Length		mm	13
Screwdriver			No. 2 Pozidrive
Neutral cable	Length	mm	750
	Section	mm²	4 mm² up to 25 A, 6 mm² to 32 A
	Color	Black	
Mounting Type			on DIN rail EN 60715 (35 mm) by means of mounting clip
Mounting position			Vertical & Horizontal
Supply from			Bottom terminals
Dimensions and weight			
Dimensions (H×D×W)		mm	86×70×17.8
Weight		g	166
Combination with auxiliary elements			
Combinable with accessories and auxiliaries			YES, DSCC series

DSE201 NS

Ordering data



DSE201 NS: 1P+N eRCBO

Function: protection and control of the circuits against overloads and short-circuits; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact ($I_{\Delta n} = 30 \text{ mA}$). The neutral is switched. Voltage dependent RCBO.

Applications: Residential, commercial, industrial

Standard: IEC 61009-1; IEC 61009-2-2; AS/NZS 61009.1

N. poles	Breaking capacity	Type	Sensitivity $I_{\Delta n}$ mA	Tripping Char.	Rated Current I_n		Order details		Weight 1 piece kg	Pack unit pc.
					A	EAN	Type code	Order code		
1P+N	6 kA	AC	30	B	6	6941593499168	DSE201 B6 AC30 NS	2TAZ262111R2061	0.166	1
					10	6941593499175	DSE201 B10 AC30 NS	2TAZ262111R2101	0.166	1
					13	6941593499182	DSE201 B13 AC30 NS	2TAZ262111R2131	0.166	1
					16	6941593499199	DSE201 B16 AC30 NS	2TAZ262111R2161	0.166	1
					20	6941593499205	DSE201 B20 AC30 NS	2TAZ262111R2201	0.166	1
					25	6941593499212	DSE201 B25 AC30 NS	2TAZ262111R2251	0.166	1
					32	6941593499229	DSE201 B32 AC30 NS	2TAZ262111R2321	0.166	1
				C	6	6941593499236	DSE201 C6 AC30 NS	2TAZ262111R2064	0.166	1
					10	6941593499243	DSE201 C10 AC30 NS	2TAZ262111R2104	0.166	1
					13	6941593499250	DSE201 C13 AC30 NS	2TAZ262111R2134	0.166	1
					16	6941593499267	DSE201 C16 AC30 NS	2TAZ262111R2164	0.166	1
					20	6941593499274	DSE201 C20 AC30 NS	2TAZ262111R2204	0.166	1
					25	6941593499281	DSE201 C25 AC30 NS	2TAZ262111R2254	0.166	1
					32	6941593499298	DSE201 C32 AC30 NS	2TAZ262111R2324	0.166	1
			10	B	6	6941593499304	DSE201 B6 A10 NS	2TAZ262114R1061	0.166	1
					10	6941593499311	DSE201 B10 A10 NS	2TAZ262114R1101	0.166	1
					13	6941593499328	DSE201 B13 A10 NS	2TAZ262114R1131	0.166	1
					16	6941593499335	DSE201 B16 A10 NS	2TAZ262114R1161	0.166	1
					20	6941593499342	DSE201 B20 A10 NS	2TAZ262114R1201	0.166	1
					25	6941593499359	DSE201 B25 A10 NS	2TAZ262114R1251	0.166	1
					32	6941593499366	DSE201 B32 A10 NS	2TAZ262114R1321	0.166	1
				C	6	6941593499373	DSE201 C6 A10 NS	2TAZ262114R1064	0.166	1
					10	6941593499380	DSE201 C10 A10 NS	2TAZ262114R1104	0.166	1
					13	6941593499397	DSE201 C13 A10 NS	2TAZ262114R1134	0.166	1
					16	6941593499403	DSE201 C16 A10 NS	2TAZ262114R1164	0.166	1
					20	6941593499410	DSE201 C20 A10 NS	2TAZ262114R1204	0.166	1
					25	6941593499427	DSE201 C25 A10 NS	2TAZ262114R1254	0.166	1
					32	6941593499434	DSE201 C32 A10 NS	2TAZ262114R1324	0.166	1
			30	B	6	6941593499441	DSE201 B6 A30 NS	2TAZ262114R2061	0.166	1
					10	6941593499458	DSE201 B10 A30 NS	2TAZ262114R2101	0.166	1
					13	6941593499465	DSE201 B13 A30 NS	2TAZ262114R2131	0.166	1
					16	6941593499472	DSE201 B16 A30 NS	2TAZ262114R2161	0.166	1
					20	6941593499489	DSE201 B20 A30 NS	2TAZ262114R2201	0.166	1
					25	6941593499496	DSE201 B25 A30 NS	2TAZ262114R2251	0.166	1
					32	6941593499502	DSE201 B32 A30 NS	2TAZ262114R2321	0.166	1
				C	6	6941593499519	DSE201 C6 A30 NS	2TAZ262114R2064	0.166	1
					10	6941593499526	DSE201 C10 A30 NS	2TAZ262114R2104	0.166	1
					13	6941593499533	DSE201 C13 A30 NS	2TAZ262114R2134	0.166	1
					16	6941593499540	DSE201 C16 A30 NS	2TAZ262114R2164	0.166	1
					20	6941593499557	DSE201 C20 A30 NS	2TAZ262114R2204	0.166	1
					25	6941593499564	DSE201 C25 A30 NS	2TAZ262114R2254	0.166	1
					32	6941593499571	DSE201 C32 A30 NS	2TAZ262114R2324	0.166	1

DSE201 NS

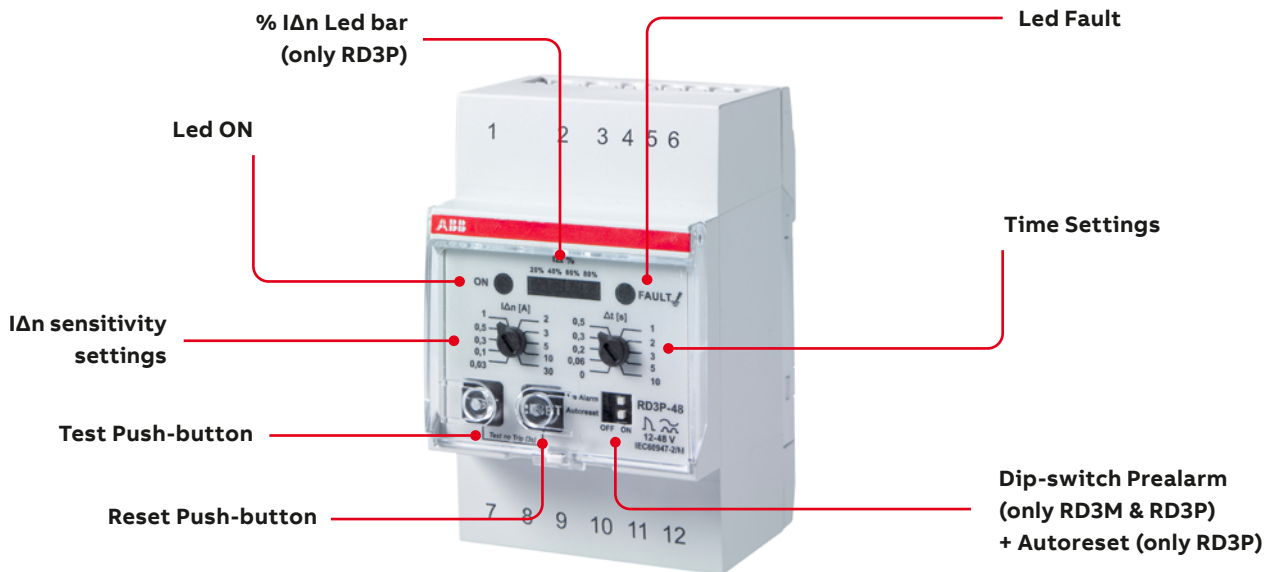
Ordering data

N. poles	Breaking capacity	Type	Sensitiv- ity $I_{\Delta n}$ mA	Tripping Char.	Rated Current I_n		Order details		Weight 1 piece kg	Pack unit pc.
					A	EAN	Type code	Order code		
1P+N	10 kA	A	10	B	6	6941593499588	DSE201 M B6 A10 NS	2TAZ263114R1061	0.166	1
					10	6941593499595	DSE201 M B10 A10 NS	2TAZ263114R1101	0.166	1
					13	6925897500003	DSE201 M B13 A10 NS	2TAZ263114R1131	0.166	1
					16	6925897500010	DSE201 M B16 A10 NS	2TAZ263114R1161	0.166	1
					20	6925897500027	DSE201 M B20 A10 NS	2TAZ263114R1201	0.166	1
				C	6	6925897500034	DSE201 M C6 A10 NS	2TAZ263114R1064	0.166	1
					10	6925897500041	DSE201 M C10 A10 NS	2TAZ263114R1104	0.166	1
					13	6925897500058	DSE201 M C13 A10 NS	2TAZ263114R1134	0.166	1
					16	6925897500065	DSE201 M C16 A10 NS	2TAZ263114R1164	0.166	1
					20	6925897500072	DSE201 M C20 A10 NS	2TAZ263114R1204	0.166	1
			30	B	6	6925897500089	DSE201 M B6 A30 NS	2TAZ263114R2061	0.166	1
					10	6925897500096	DSE201 M B10 A30 NS	2TAZ263114R2101	0.166	1
					13	6925897500102	DSE201 M B13 A30 NS	2TAZ263114R2131	0.166	1
					16	6925897500119	DSE201 M B16 A30 NS	2TAZ263114R2161	0.166	1
					20	6925897500126	DSE201 M B20 A30 NS	2TAZ263114R2201	0.166	1
				C	6	6925897500133	DSE201 M C6 A30 NS	2TAZ263114R2064	0.166	1
					10	6925897500140	DSE201 M C10 A30 NS	2TAZ263114R2104	0.166	1
					13	6925897500157	DSE201 M C13 A30 NS	2TAZ263114R2134	0.166	1
					16	6925897500164	DSE201 M C16 A30 NS	2TAZ263114R2164	0.166	1
					20	6925897500171	DSE201 M C20 A30 NS	2TAZ263114R2204	0.166	1

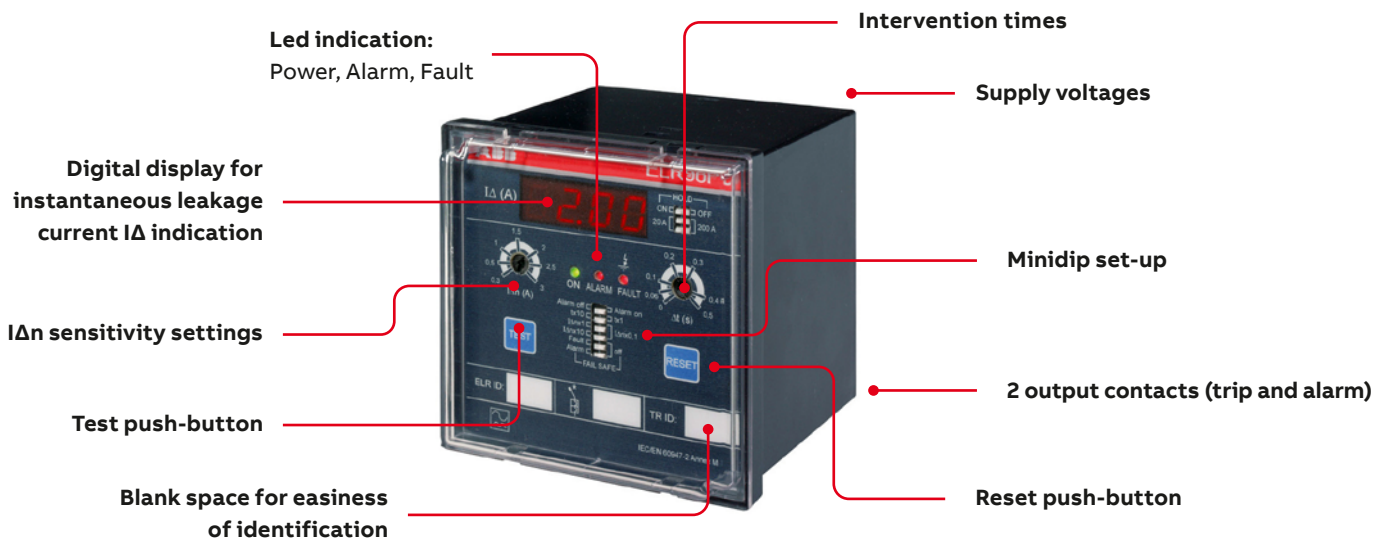
Residual Current Relays

Monitoring and protection of the low voltage distribution network

RD Series



ELR Series



Toroidal Transformers

A wide range of toroids to be used in combination with ELR/RD series.



Residual current relays

RD2



RD2

Technical features		
Operating voltage	[V]	230÷400 a.c. (RD2) and 48÷150 a.c./d.c. (RD2-48)
Frequency	[Hz]	50÷60
Type		A
Operating temperature	[°C]	-5...+40
Power consumption	[W]	<3.4, 230 V a.c.
Sensitivity settings I Δ n	[A]	0.03; 0.1; 0.3; 0.5; 1; 2
Tripping time settings	[s]	Fast (instantaneous); 0.3; 0.5; 1; 2; 5
Contact capacity	[A]	10 at 250 V a.c. (ohmic)
Contact type		NC-C-NO
Modules	[No.]	2
Protection degree		IP20
Standards		IEC/EN 62020

RD2 residual current relays

Residual current relays with external toroidal transformer can detect leakage currents. Through minidip it is possible to set sensitivity and intervention time. RD2 residual current relays are designed to be used with external toroid belonging to TR family – see the dedicated section in page 2/153.

Operating voltage	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
[V]	EAN	Type code	Order code		[kg]	pc.
230...400 a.c.	058007	RD2	2CSM142120R1201		0.125	1
48...150 a.c./d.c.	537809	RD2-48	2CSM242120R1201		0.125	1

Residual current relays

RD3



RD3



RD3M



RD3P

Technical features	RD3/RD3-48	RD3M/RD3M-48	RD3P/RD3P-48
Operating voltage	RD3: 230-400 Vac	RD3M: 230-400 Vac	RD3P: 230-400 Vac
	+10% / -15%	+10% / -15%	+10% / -15%
	RD3-48: 12-48 Vac/ Vdc +10% / -15%	RD3M-48: 12-48 Vac/ Vdc +10% / -15%	RD3P-48: 12-48 Vac/ Vdc +10% / -15%
Auxiliary supply frequency	50-60 Hz		
Frequency filter	-	Yes	Yes
Type	A (up to $I_{\Delta n}=5$ A) AC (for higher current)		
Operating temperature	-25....+70 °C		
Power consumption	<3.6 W (RD3, RD3M, RD3P), <600 mW RD3-48, RD3M-48, RD3P-48)		
Sensitivity settings $I_{\Delta n}$	0.03-0.1-0.3-0.5-1-2-3-5-10-30 A		
Tripping time settings Δt	0-0.06-0.2-0.3-0.5-1-2-3-5-10 s		
Pre-alarm threshold	-	60%	60%
Max. resistance connection between toroidal transformer and relay	3 Ω		
Max. length connection of remote reset button	15 m		
Output Contact capacity (7-8-9); (10-11-12)	8 A, 250 V a.c.		
Led bar indicator	-	-	Yes
Max. cable terminals section	2.5 mm ²		
Modules	3		
Dimensions	52.8 × 85 × 64.7 mm		
Protection degree	IP20		
Standards	IEC/EN 60947-2 annex. M		

RD3 residual current relays

The RD3 family of electronic residual current relays provides residual current protection and monitoring functions according to IEC/EN 60947-2:2006 annex M when used in conjunction with external toroids belonging to TR family, all S 200 miniature circuit breakers and Tmax/XT range moulded case devices up to T5/XT4, for industrial installations. The RD3 residual current relays can provide status indications through two output contacts.

Operating voltage	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
[V]	EAN	Type code	Order code		[kg]	pc.
12-48 a.c./d.c.	748236	RD3-48	2CSJ201001R0001		0.13	1
230-400 a.c.	734833	RD3	2CSJ201001R0002		0.25	1
12-48 a.c./d.c.	733935	RD3M-48	2CSJ202001R0001		0.13	1
230-400 a.c.	747031	RD3M	2CSJ202001R0002		0.25	1
12-48 a.c./d.c.	734734	RD3P-48	2CSJ203001R0001		0.13	1
230-400 a.c.	733836	RD3P	2CSJ203001R0002		0.25	1

ELR

Technical features		ELR48P	ELR72	ELR72P	ELR96	ELR96P	ELR96PF	ELR96PD
Operating voltage	[V]	24, 48, 110, 230 a.c./ 24, 48, 115 d.c.	24, 48, 110, 230 a.c./ 24, 48, 110 d.c.	24, 48, 110, 230, 400 a.c./ 24, 48 d.c.	24, 48, 110, 230, 400 a.c./ 24, 48, 110 d.c.	24, 48, 110, 230, 400 a.c./ 24, 48 d.c.	110, 230, 400 a.c.	110, 230, 400 a.c.
Frequency	[Hz]	50 – 60						
Frequency filter		-	-	-	-	-	Yes	Yes
Type		A						
Operating temperature	[°C]	-10...+60						
Power consumption	[W]	<7						
Sensitivity setting IΔn	[A]	from 0,03 to 30						
Tripping time setting Dt	[s]	from 0 to 5						
Contacts	[no.]	2	1	2	1	2	2	2
Contact capacity	[A]	5 (250 V a.c.)						
Dimensions	[mm]	48 x 48	72 x 72	72 x 72	96 x 96	96 x 96	96x96	96 x 96
Digital display		-	-	-	-	-	-	Yes
Protection degree (with cover)		IP52						
Protection degree (without cover)		IP40						
Protection degree (terminals)		IP20						
Standards		IEC EN 60947-2 Annex M						

Front panel residual current relays

ELR



ELR48P



ELR72



ELR96



ELR96PD

ELR front panel residual current relay

Front panel residual current relays are electronic devices used in combination with an external toroidal transformer. ELR devices are according to the protection standard IEC/EN 60947-2 Annex-M when used in conjunction with external toroids belonging to TR family, all S200 miniature circuit breakers and Tmax/XT range moulded case devices up to T5/XT4, for industrial installations.

The sensitivity can be set from 0.03 A to 30 A, while the tripping time from 0 to 5 seconds. Residual current relays are available in versions 48x48 mm, 72x72 mm, and 96x96 mm. The Fail Safe function is available for the whole ELR range (ELR 48, ELR 72, and ELR96 versions).

The ELR96PF version is equipped with Fail Safe function, fault memory LED, and a frequency filter, that ensure continuity of service in the presence of harmonics.

ELR96PD has (in addition to these functions) a digital display for an instantaneous view of the residual current $I_{\Delta n}$.

Operating voltage	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
[V]	EAN	Type code	Order code	[kg]	pc.	
110 V a.c./d.c. - 230 V a.c.	748229	ELR48P	2CSG252211R1202	0.112	1	
24-48 V a.c./d.c.	734826	ELR48V24P	2CSG452211R1202	0.112	1	
110 V a.c./d.c. - 230 V a.c.	733928	ELR72	2CSG252120R1202	0.322	1	
24-48 V a.c./d.c.	747024	ELR72V24	2CSG452120R1202	0.322	1	
110-230-400 V a.c.	734727	ELR72P	2CSG152424R1202	0.322	1	
24-48 V a.c./d.c.	733829	ELR72V24P	2CSG452424R1202	0.322	1	
110 V a.c./d.c.-230-400 V a.c.	734628	ELR96	2CSG152130R1202	0.383	1	
24-48 V a.c./d.c.	733720	ELR96V24	2CSG452130R1202	0.383	1	
110-230-400 V a.c.	734529	ELR96P	2CSG152434R1202	0.383	1	
24-48 V a.c./d.c.	733621	ELR96V24P	2CSG452434R1202	0.383	1	
110-230-400 V a.c.	734420	ELR96PF	2CSG152435R1202	0.383	1	
110-230-400 V a.c.	733522	ELR96PD	2CSG152436R1202	0.383	1	

Toroidal transformers

TR



TR

Toroidal transformers

Technical features		TRM	TR1	TR2	TR3	TR4	TR4A	TR160	TR160A	TR5	TR5A	TR6	TR6A
Core		closed	closed	closed	closed	closed	open	closed	open	closed	open	closed	open
Available internal diameter	[mm]	29	35	60	80	110	110	160	160	210	210	300	300
Weight	[kg]	0.17	0.22	0.28	0.45	0.52	0.6	1.35	1.6	1.45	1.85	2.1	2.3
Minimum measurable current	[mA]	30	30	30	100	100	300	300	500	300	500	500	1000
Installation position		Any											
Operating temperature	[°C]	-10...+70											
Storage temperature	[°C]	-20...+80											
Transformation ratio		500/1											
Dielectric test voltage at industrial freq. for 1 min.	[kV]	2.5											
Max. insulating voltage	[V a.c.]	1000											
Max. thermal overload	[kA]	40/1 sec.											
Connections		Screw terminal boards, max. section 2.5 mm²											
Protection degree		IP20											

Dimension Ø	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
[mm]	EAN	Type code	Order code		[kg]	pc.
29 (modular version)	020707	TRM	2CSM029000R1211		0.170	1
35	020301	TR1	2CSG035100R1211		0.212	1
60	020400	TR2	2CSG060100R1211		0.274	1
80	020509	TR3	2CSG080100R1211		0.454	1
110	020608	TR4	2CSG110100R1211		0.530	1
110 (openable version)	743408	TR4/A	2CSG110200R1211		0.600	1
160	743507	TR160	2CSG160100R1211		1.350	1
160 (openable version)	743606	TR160A	2CSG160200R1211		1.600	1
210	024804	TR5	2CSG210100R1211		1.534	1
210 (openable version)	065708	TR5/A	2CSG210200R1211		1.856	1
300	185413	TR6	2CSG300100R1211		2.100	1
300 (openable version)	180715	TR6/A	2CSG300200R1211		2.300	1



Notes

A series of horizontal lines for taking notes.