

RCBO DS301C

Data sheet



DS301C is a 1P+N RCBO compliant to product standard IEC/EN 61009 and with the following main technical features:

- Breaking capacity 6 kA
- Type A, AC, F, G
- Sensitivity 30 mA
- Tripping characteristics B, C
- Rated current from 6 to 20 A

The 1P+N DS301C RCBOs are the perfect slim solution for a complete protection against overcurrent and earth fault currents.

In one module width, the series ensures where space is missing, the safety of people, facilities and related equipment.

Application benefits

- Half space versus conventional RCBO for reducing enclosure size or extend the number of circuit with the same space
- Supply possible both from top and bottom with cable up to 16 mm² cables and 10 mm² busbars
- Easy troubleshooting and reduced downtime for maintenance operations thanks to the earth fault indicator (blue flag below the toggle) and contact position indicator (CPI) on the toggle
- Family feeling in the System pro M compact® range

RCBO DS301C

Slim solutions for a complete protection



		DS301C
Electrical features	Standards	IEC/EN 61009-1; IEC/EN 61009-2-1
	Type (wave form of the earth leakage sensed)	A—AC, F, G
	Number of poles	1P + N (1 pole protected)
	Rated current I_n	A $6 \leq I_n \leq 20$
	Rated sensitivity $I_{\Delta n}$	A 0.03
	Rated operational voltage	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 170
	Rated frequency	Hz 50
	Rated short circuit breaking capacity acc. to IEC/EN 61009-1	A 6000
	Rated breaking capacity ultimate I_{cu}	kA 6
	acc. To IEC/EN 60947-2 (only referring to short circuit test) service I_{cs}	kA 6
	Grid distance	mm 35
	Rated residual breaking capacity IDM IDM according to EN 61009-1	A 6000 A (4500 A for I_n 20 A)
	Rated residual breaking capacity IDM IDM according to IEC 61009-1	A 4500 A (3000 A for I_n 20 A)
	Rated impulse withstand voltage U_{imp} (1.2/50 μ s)	KV 4
	Dielectric test voltage at ind. Freq. For 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	
Surge current resistance (wave 8/20 μ s)	NA	
Powerloss (average per pole)	W 1.42	
Mechanical features	Housing type	Insulation group 1-II, RAL 7035
	Toggle type	Insulation group II, Black RAL 9005, sealable in ON-OFF positions
	Contact position indication	On toggle
	Earth fault trip indication	Blue flag window
	Electrical life	operations 7000
	Mechanical life	operations 7000
	Protection degree acc. To EN 60529	housing IP4X terminals IP2X
	Shock resistance acc. To IEC/EN 60068-2-27	25g—2 shocks—13 ms
	Vibration resistance acc. To IEC/EN 60068-2-6	0.1 mm or 1 g—20 cycles at 5...150...5 Hz
	Environmental conditions (damp heat) acc. IEC/EN 60068-2-30	$^{\circ}$ C/RH 28 cycles with 55 $^{\circ}$ C/90-96% and 25 $^{\circ}$ C/95-100%
	Reference temperature for setting of thermal element	$^{\circ}$ C 30
	Ambient temperature (with daily average $\leq +35^{\circ}$ C)	$^{\circ}$ C -25...+55
	Storage temperature	$^{\circ}$ C -40...+70

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Slim solutions for a complete protection



			DS301C
Installation	Terminal type	top / bottom	Faisafe
	Cross-section of conductors (IEC)	top / bottom	mm ² 16/16
	Cross-section of busbars (IEC)	top / bottom	mm ² 10/10
	Tightening torque	top / bottom	Nm 1.2
	Stripping length of the cable		mm 10
	Screwdrive		No. 2 Pozidrive
	Mounting type		on DIN rail EN 60715 (35 mm) by means of mounting clip
	Mounting position		Any
	Supply from		Top/Bottom terminals
Dimension and weight	Dimensions (H x D x W)	mm	92 x 68 x 17.6
	Weight	g	110

RCBOs

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 kg	Pack 1 piece unit pc.
				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 kg	Pack 1 piece unit pc.
				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  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 kg	Pack unit pc.
				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  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 kg	Pack unit pc.
				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 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				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	

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 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				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 pc.
				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

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.

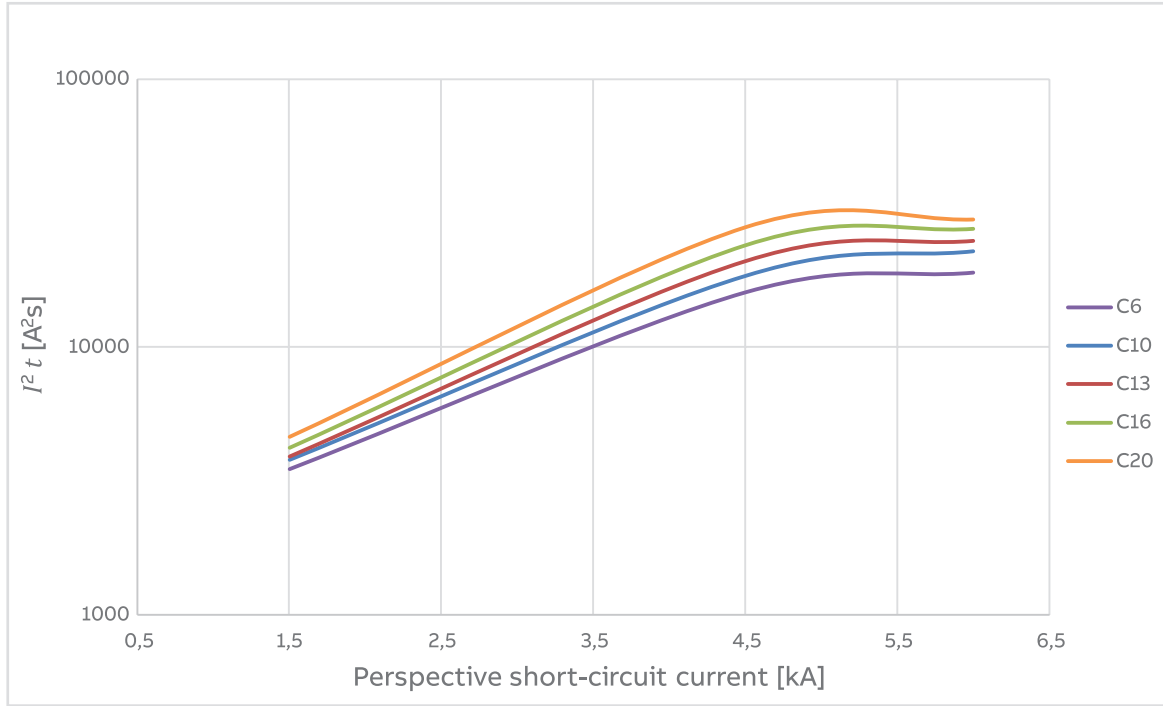
Standard: IEC 61009-1; IEC 61009-2-1

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

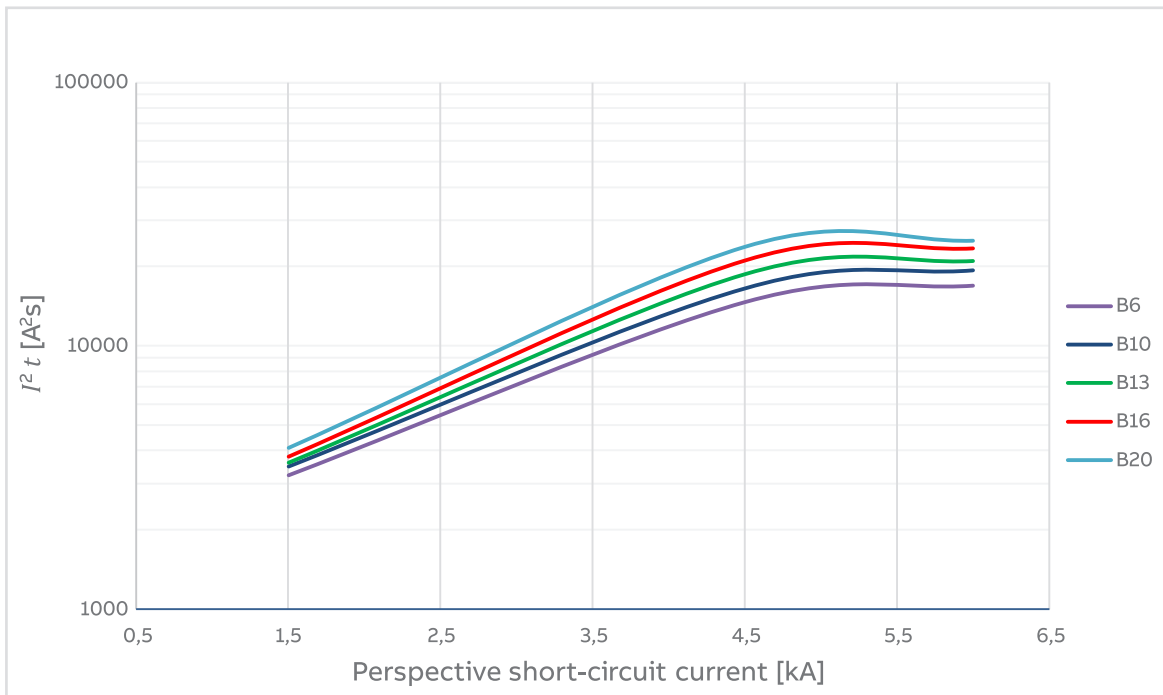
No. of poles	Rated residual current $I\Delta n \text{ mA}$	Rated current $I_n \text{ A}$	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
1+N	30	6	8012542724452	DS301C C6 G30	2CSR255463R1064		0.11	1
1+N	30	10	8012542724551	DS301C C10 G30	2CSR255463R1104		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
Technical data

Specific let-through energy I^2t DS301C—Characteristic C



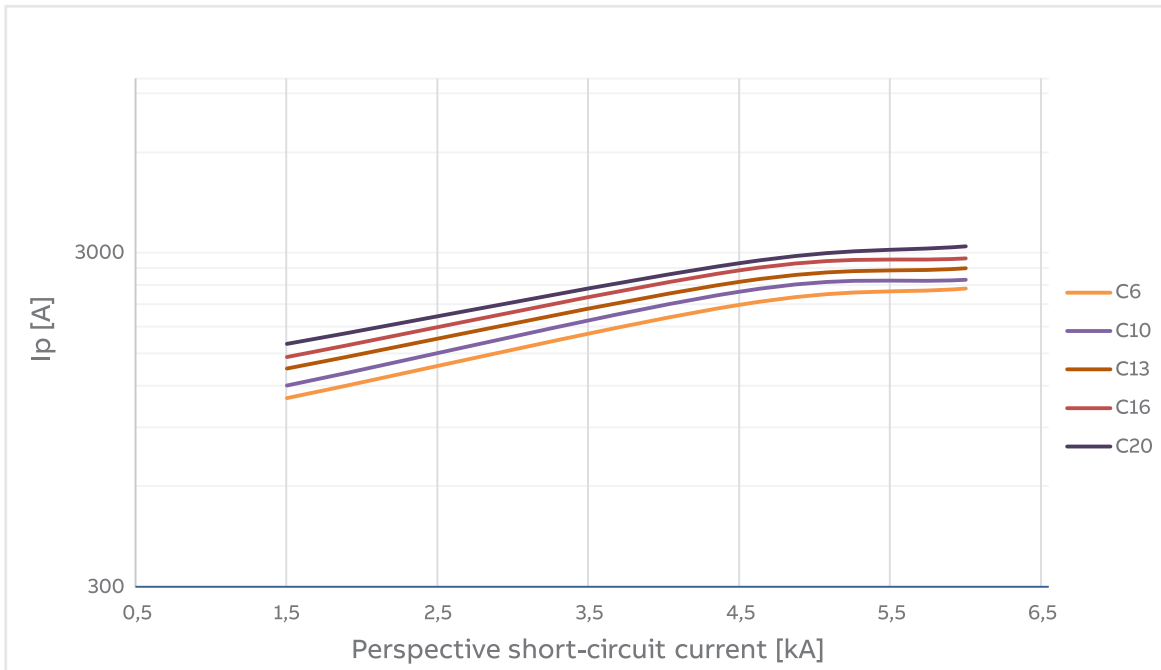
Specific let-through energy I^2t DS301C—Characteristic B



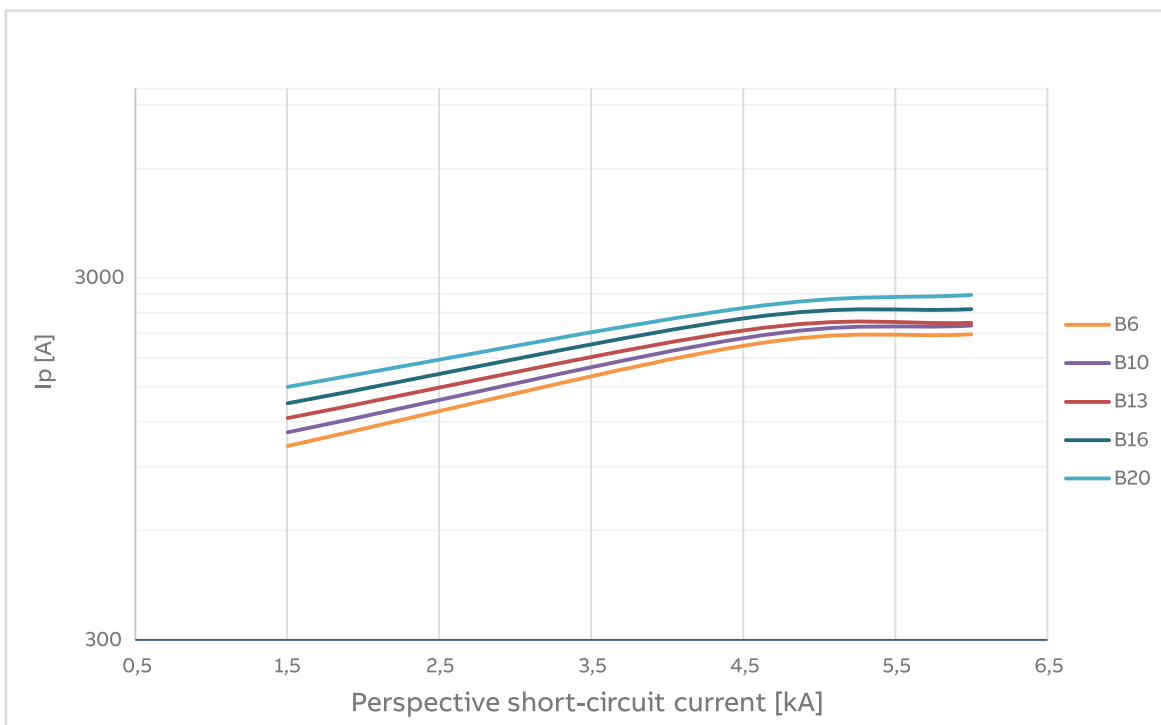
RCBO DS301C

Technical data

I_{peak} DS301C—Characteristic C



I_{peak} DS301C—Characteristic B

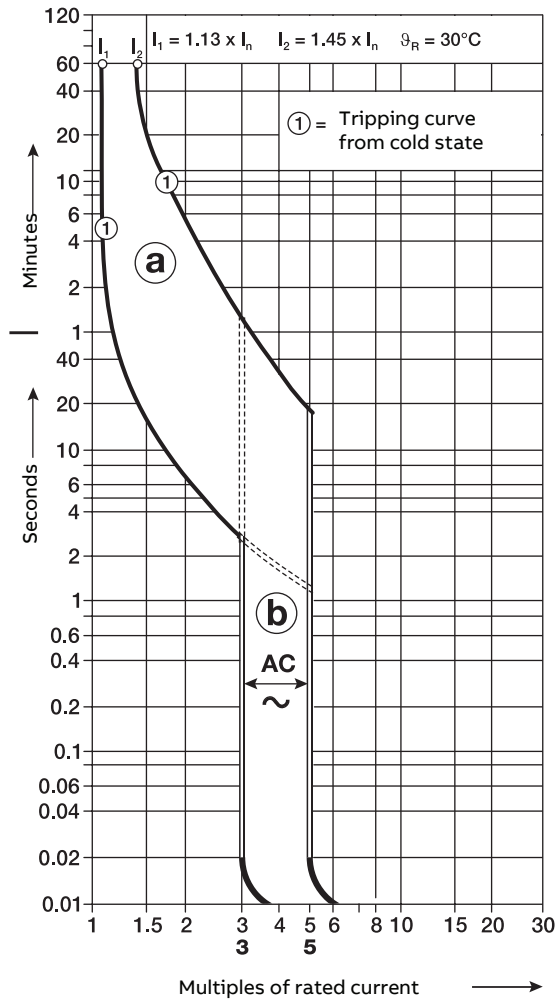


RCBO DS301C

Technical data

Tripping characteristics B

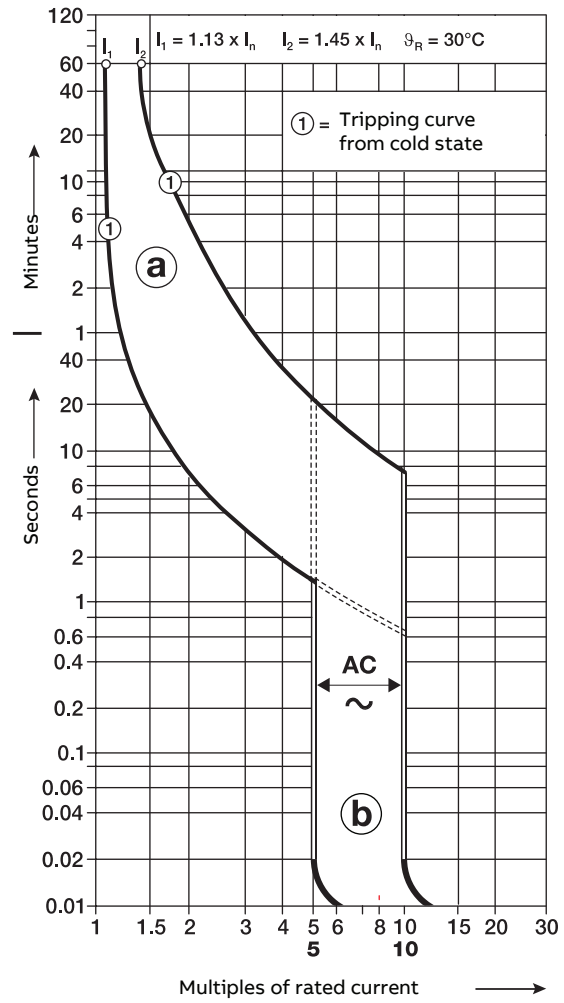
IEC/EN 61009-1



a: thermal trip
b: electromagnetic trip

Tripping characteristics C

IEC/EN 61009-1



a: thermal trip
b: electromagnetic trip

RCBO DS301C

Technical data

Performance in altitude

Elevation [m]	2000	3000	4000	5000	6000
Rated Current [A]	$1 \times I_n$	$0.96 \times I_n$	$0.94 \times I_n$	$0.92 \times I_n$	$0.90 \times I_n$
Rated Voltage [V]	$1 \times U_n$	$0.877 \times U_n$	$0.775 \times U_n$	$0.676 \times U_n$	$0.588 \times U_n$

Derating in temperature

Max operating current depending on the ambient temperature (daily average $\leq 35^\circ\text{C}$) of characteristics type B and C.

I_n	Temperature ($^\circ\text{C}$)											
	-25	-20	-10	0	10	20	30	40	50	55	60	70
6 A	8.3	7.8	7.3	7.0	6.7	6.3	6.0	6.0	5.9	5.8	5.7	5.7
10 A	13.8	13.5	12.7	12.1	11.0	10.4	10.0	9.5	9.2	9.0	8.9	8.8
13 A	17.8	17.1	16.5	15.8	14.8	13.9	13.0	12.4	12.2	12.0	11.9	11.8
16 A	20.6	19.9	19.0	18.4	17.7	16.6	16.0	15.4	15.0	14.8	14.6	14.5
20 A	25.8	24.8	23.5	22.9	21.9	20.8	20.0	19.4	18.7	18.2	18.0	17.9

RCBO DS301C

Technical data

Influence of adjacent devices

Number of devices	1	3	5	7	9
Correction factor	1	0.9	0.85	0.81	0.79

Voltage Drop, power loss, internal resistance, own consumption

Characteristic B

In (A)	Voltage drop (V)	Powerloss (W)				Internal Resistance (mΩ)
		Average per pole	Phase pole	Neutral pole	Total	
6 A	0.4	1.10	2.1	0.1	2.2	61.0
10 A	0.3	1.30	2.35	0.25	2.6	26.0
13 A	0.2	1.24	2.12	0.35	2.47	14.6
16 A	0.0	1.42	2.11	0.72	2.83	11.1
20 A	0.2	1.83	2.88	0.78	3.66	9.2

Characteristic C

In (A)	Voltage drop (V)	Powerloss (W)				Internal Resistance (mΩ)
		Average per pole	Phase pole	Neutral pole	Total	
6 A	0.3	0.78	1.47	0.09	1.56	43.3
10 A	0.2	0.75	1.25	0.25	1.5	15.0
13 A	0.2	1.13	1.95	0.3	2.25	13.3
16 A	0.2	1.24	1.84	0.65	2.48	9.7
20 A	0.2	1.70	2.6	0.8	3.4	8.5

RCDs technical detail

Coordination tables: back-up DS301C

Fuses - RCBOs DS301C @230/240 V

				Supply side					
				Fuses gG					
Load side	Char	Icu (kA)	In (A)	25	40	50	63	80	100
RCBOs DS301C	B, C	6	6...20	10	10	10	10	10	10

MCCB Tmax XT @ 415 V - RCBOs DS301C @230/240 V

				Supply side																	
				XT1	XT1	XT1	XT2	XT3	XT4	XT1	XT2	XT3	XT4	XT1	XT2	XT4	XT2	XT4	XT2	XT4	
				Version	B	C	N	N	N	S	S	S	S	H	H	H	L	L	V	V	
				Icu (kA)	18	25	36	36	36	36	50	50	50	50	70	70	70	120	120	150	150
Load side	Char	Icu (kA)	In (A)	160	160	160	160	250	250	160	160	250	250	160	160	250	160	250	250	250	
RCBOs DS301C	B, C	6	6...20	16	20	23	23	10	16	23	23	10	16	23	23	16	23	16	23	16	

S200 - RCBOs DS301C @230/240 V

				Supply side			
				S200	S200M	S200P	S200P
				Version	B, C	B, C	B, C
				Icu (kA)	20	25	40
Load side	Char	Icu (kA)	In (A)	0,5... 63	0,5... 63	0,5... 25	32... 63
RCBOs DS301C	B, C	6	6...20	10	10	10	10

RCBOs DS301C @230/240 V - SN201 @ 230/240V

				Supply side		
				SN201	SN201M	SN201M
				Version	B, C, D	B, C
				Icu (kA)	10	10
Load side	Char	Icu (kA)	In (A)	2... 40	2... 40	2... 40
RCBOs DS301C	B, C	6	6...20	10	10	10

S800S - RCBOs DS301C @230/240 V

				Supply side		S800S					
				Version	B, C, D, K						
				Icu (kA)	35						
Load side	Char	Icu (kA)	In (A)	25	32	40	50	63	80	100	125
RCBOs DS301C	B, C	6	6	30	25	18	18	18	15	15	15
			10	30	25	18	18	18	15	15	15
			13	30	25	18	18	18	15	15	15
			16	30	25	18	18	18	15	15	15
			20	25	18	18	18	15	15	15	

S800N - RCBOs DS301C @230/240 V

				Supply side		S800N					
				Version	B, C, D						
				Icu (kA)	36						
Load side	Char	Icu (kA)	In (A)	25	32	40	50	63	80	100	125
RCBOs DS301C	B, C	6	6	30	25	18	18	18	15	15	15
			10	30	25	18	18	18	15	15	15
			13	30	25	18	18	18	15	15	15
			16	30	25	18	18	18	15	15	15
			20	25	18	18	18	15	15	15	

RCDs technical detail

Coordination tables: back-up DS301C

S800C - RCBOs DS301C @230/240 V

			Supply side	S800C							
			Version	B, C, D, K							
			Icu (kA)	25							
Load side	Char	Icu (kA)	In (A)	25	32	40	50	63	80	100	125
RCBOs DS301C	B, C	6	6	25	25	18	18	18	15	15	15
			10	25	25	18	18	18	15	15	15
			13	25	25	18	18	18	15	15	15
			16	25	25	18	18	18	15	15	15
			20		25	18	18	18	15	15	15

S800B - RCBOs DS301C @230/240 V

			Supply side	S800B							
			Version	B, C, D, K							
			Icu (kA)	16							
Load side	Char	Icu (kA)	In (A)	32	40	50	63	80	100	125	
RCBOs DS301C	B, C	6	6	15	15	15	15	15	15	15	15
			10	15	15	15	15	15	15	15	15
			13	15	15	15	15	15	15	15	15
			16	15	15	15	15	15	15	15	15
			20	15	15	15	15	15	15	15	15

S800U - RCBOs DS301C @230/240 V

			Supply side	S800 U								
			Version	K, Z								
			Icu (kA)	50								
Load side	Char	Icu (kA)	In (A)	25	30	40	50	60	70	80	90	100
RCBOs DS301C	B, C	6	6	50	50	40	40	40	30	30	25	25
			10	50	50	40	40	40	30	30	25	25
			13	50	50	40	40	40	30	30	25	25
			16		50	40	40	40	30	30	25	25
			20		50	40	40	40	30	30	25	25

RCDs technical detail

Coordination tables: back-up DS301C

S750 DR - RCBOs DS301C @230/240 V

			Supply side	S750 DR								
			Version	Eselective, Kselective								
			Icu (kA)	25								
Load side	Char	Icu (kA)	In (A)	16	20	25	32	40	50	63	80	100
RCBOs DS301C	B, C	6	6	25	25	25	25	22	22	22	22	22
			10	25	25	25	25	22	22	22	22	22
			13		25	25	25	22	22	22	22	22
			16			25	25	22	22	22	22	22
			20				25	22	22	22	22	22

S750 - RCBOs DS301C @230/240 V

			Supply side	S750							
			Version	Eselective, Kselective							
			Icu (kA)	25							
Load side	Char	Icu (kA)	In (A)	16	20	25	32	40	50	63	
RCBOs DS301C	B, C	6	6	25	25	25	25	22	22	22	
			10	25	25	25	25	22	22	22	
			13		25	25	25	22	22	22	
			16			25	25	22	22	22	
			20				25	22	22	22	

RCDs technical detail

Coordination tables: selectivity DS301C

MCCB Tmax XT1 @ 415 V - RCBOs DS301C @230/240 V

			Supply side		XT1									
			Version		B, C, N, S, H									
			Release		TM									
Load side	Char	Icu (kA)	In (A)	16	20	25	32	40	50	63	80	100	125	160
RCBOs DS301C	B, C	6	6	3	3	3	3	3	3	3	3	3	3	3
			10		3	3	3	3	3	3	3	3	3	
			13			3	3	3	3	3	3	3	3	
			16				3	3	3	3	3	3	3	
			20						3	3	3	3	3	

MCCB Tmax XT2 @ 415 V - RCBOs DS301C @230/240 V

			Supply side		XT2															
			Version		N, S, H, L, V															
			Release		TM															
					EL															
Load side	Char	Icu (kA)	In (A)	16	20	25	32	40	50	63	80	100	125	160	10	25	63	100	160	
RCBOs DS301C	B, C	6	6	T	T	T	T	T	T	T	T	T	T	T		T	T	T	T	
			10		3	3	3	3	4.5	T	T	T	T	T			T	T	T	
			13				3	3	4.5	T	T	T	T	T				T	T	T
			16				3	3	4.5	T	T	T	T	T				T	T	T
			20				3	3	3	T	T	T	T	T				T	T	T

MCCB Tmax XT3 @ 415 V - RCBOs DS301C @230/240 V

			Supply side		XT3						
			Version		N, S						
			Release		TM						
Load side	Char	Icu (kA)	In (A)	63	80	100	125	160	200	250	
RCBOs DS301C	B, C	6	6	1.5	4.5	4.5	4.5	4.5	4.5	4.5	
			10	1.5	4.5	4.5	4.5	4.5	4.5		
			13	1.5	4.5	4.5	4.5	4.5	4.5		
			16	1.5	4.5	4.5	4.5	4.5	4.5		
			20	1.5	4.5	4.5	4.5	4.5	4.5		

MCCB Tmax XT4 @ 415 V - RCBOs DS301C @230/240 V

			Supply side		XT4																		
			Version		N, S, H, L, V																		
			Release		TM																		
					EL																		
Load side	Char	Icu (kA)	In (A)	16	20	25	32	40	50	63	80	100	125	160	200	225	250	40	63	100	160	250	
RCBOs DS301C	B, C	6	6	3	3	3	3	3	3	T	T	T	T	T	T	T	T	T	T	T	T	T	
			10	3	3	3	3	3	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
			13			3	3	3	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
			16			3	3	3	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
			20			3	3	3	T	T	T	T	T	T	T	T	T	T		T	T	T	

RCDs technical detail

Coordination tables: selectivity DS301C

S800N / S800S (Char B) - RCBOs DS301C @230/240 V

			Supply side	S800N / S800S							
			Version	B							
			Release	36 / 50							
Load side	Char	Icu (kA)	In (A)	25	32	40	50	63	80	100	125
RCBOs DS301C	B, C	6	6				0.2	0.2	0.5	0.5	0.5
			10				0.2	0.2	0.5	0.5	0.5
			13					0.2	0.5	0.5	0.5
			16					0.2	0.5	0.5	0.5
			20						0.5	0.5	0.5

S800N / S800S (Char C) - RCBOs DS301C @230/240 V

			Supply side	S800N / S800S							
			Version	C							
			Release	36 / 50							
Load side	Char	Icu (kA)	In (A)	25	32	40	50	63	80	100	125
RCBOs DS301C	B, C	6	6			0.2	0.2	0.5	0.5	0.5	0.5
			10			0.2	0.2	0.5	0.5	0.5	0.5
			13				0.2	0.5	0.5	0.5	0.5
			16				0.2	0.5	0.5	0.5	0.5
			20					0.5	0.5	0.5	0.5

S800N / S800S (Char D) - RCBOs DS301C @230/240 V

			Supply side	S800N / S800S							
			Version	D							
			Release	36 / 50							
Load side	Char	Icu (kA)	In (A)	25	32	40	50	63	80	100	125
RCBOs DS301C	B, C	6	6	0.4	0.4	0.4	0.4	1	1	1	3
			10	0.4	0.4	0.4	0.4	1	1	1	3
			13		0.4	0.4	0.4	1	1	1	3
			16		0.4	0.4	0.4	1	1	1	3
			20			0.4	0.4	1	1	1	3

S800C (Char B) - RCBOs DS301C @230/240 V

			Supply side	S800C							
			Version	B							
			Release	25							
Load side	Char	Icu (kA)	In (A)	25	32	40	50	63	80	100	125
RCBOs DS301C	B, C	6	6				0.2	0.4	0.5	0.5	1
			10				0.2	0.4	0.5	0.5	1
			13				0.2	0.2	0.5	0.5	1
			16					0.2	0.5	0.5	1
			20						0.5	0.5	1

RCDs technical detail

Coordination tables: selectivity DS301C

S800C (Char C) - RCBOs DS301C @230/240 V

			Supply side	S800C							
			Version	C							
			Release	25							
Load side	Char	Icu (kA)	In (A)	25	32	40	50	63	80	100	125
RCBOs DS301C	B, C	6	6			0.2	0.4	0.5	0.5	1	2
			10			0.2	0.4	0.5	0.5	1	2
			13			0.2	0.2	0.5	0.5	1	2
			16				0.2	0.5	0.5	1	2
			20					0.5	0.5	1	2

S800C (Char D) - RCBOs DS301C @230/240 V

			Supply side	S800C							
			Version	D							
			Release	25							
Load side	Char	Icu (kA)	In (A)	25	32	40	50	63	80	100	125
RCBOs DS301C	B, C	6	6	0.4	0.4	0.6	0.6	1	1	1.5	3
			10	0.4	0.4	0.6	0.6	1	1	1.5	3
			13		0.2	0.6	0.6	1	1	1.5	3
			16		0.2	0.6	0.6	1	1	1.5	3
			20			0.6	0.6	1	1	1.5	3

S800C (Char K) - RCBOs DS301C @230/240 V

			Supply side	S800C							
			Version	K							
			Release	25							
Load side	Char	Icu (kA)	In (A)	25	32	40	50	63	80	100	125
RCBOs DS301C	B, C	6	6	0.4	0.4	0.6	0.6	1	1	1.5	3
			10	0.4	0.4	0.6	0.6	1	1	1.5	3
			13		0.2	0.6	0.6	1	1	1.5	3
			16		0.2	0.6	0.6	1	1	1.5	3
			20			0.6	0.6	1	1	1.5	3

S800S (Char K) - RCBOs DS301C @230/240 V

			Supply side	S800S							
			Version	K							
			Release	36 / 50							
Load side	Char	Icu (kA)	In (A)	25	32	40	50	63	80	100	125
RCBOs DS301C	B, C	6	6	0.2	0.4	0.6	0.6	1	2	2	2
			10	0.2	0.4	0.6	0.6	1	2	2	2
			13		0.4	0.6	0.6	1	2	2	2
			16		0.4	0.6	0.6	1	2	2	2
			20			0.6	0.6	1	2	2	2

RCDs technical detail

Coordination tables: selectivity DS301C

S800B (Char B) - RCBOs DS301C @230/240 V

			Supply side	S800B						
			Version	B						
			Release	16						
Load side	Char	Icu (kA)	In (A)	32	40	50	63	80	100	125
RCBOs DS301C	B, C	6	6		0.2	0.2	0.2	0.5	1	2
			10		0.2	0.2	0.2	0.5	1	2
			13		0.2	0.2	0.2	0.5	1	2
			16			0.2	0.2	0.5	1	2
			20				0.2	0.5	1	2

S800B (Char C) - RCBOs DS301C @230/240 V

			Supply side	S800B						
			Version	C						
			Release	16						
Load side	Char	Icu (kA)	In (A)	32	40	50	63	80	100	125
RCBOs DS301C	B, C	6	6		0.2	0.2	0.2	0.5	1	2
			10		0.2	0.2	0.2	0.5	1	2
			13		0.2	0.2	0.2	0.5	1	2
			16			0.2	0.2	0.5	1	2
			20				0.2	0.5	1	2

S800B (Char D) - RCBOs DS301C @230/240 V

			Supply side	S800B						
			Version	D						
			Release	16						
Load side	Char	Icu (kA)	In (A)	32	40	50	63	80	100	125
RCBOs DS301C	B, C	6	6	0.5	0.5	0.5	0.5	1.5	1.5	3
			10	0.5	0.5	0.5	0.5	1.5	1.5	3
			13	0.5	0.5	0.5	0.5	1.5	1.5	3
			16	0.5	0.5	0.5	0.5	1.5	1.5	3
			20		0.5	0.5	0.5	1.5	1.5	3

S800B (Char K) - RCBOs DS301C @230/240 V

			Supply side	S800B						
			Version	K						
			Release	16						
Load side	Char	Icu (kA)	In (A)	32	40	50	63	80	100	125
RCBOs DS301C	B, C	6	6	0.5	0.5	0.5	0.5	1.5	1.5	3
			10	0.5	0.5	0.5	0.5	1.5	1.5	3
			13	0.5	0.5	0.5	0.5	1.5	1.5	3
			16	0.5	0.5	0.5	0.5	1.5	1.5	3
			20		0.5	0.5	0.5	1.5	1.5	3

RCDs technical detail

Coordination tables: selectivity DS301C

S800U (Char K) - RCBOs DS301C @230/240 V

			Supply side	S800U								
			Version	K								
			Release	16								
Load side	Char	Icu (kA)	In (A)	25	30	40	50	60	70	80	90	100
RCBOs DS301C	B, C	6	6	0.4	0.4	0.6	0.6	0.6	0.6	1.5	1.5	1.5
			10	0.4	0.4	0.6	0.6	0.6	0.6	1.5	1.5	1.5
			13		0.2	0.6	0.6	0.6	0.6	1.5	1.5	1.5
			16		0.2	0.6	0.6	0.6	0.6	1.5	1.5	1.5
			20			0.6	0.6	0.6	0.6	1.5	1.5	1.5

S750 DR - RCBOs DS301C @230/240 V

			Supply side	S750 DR								
			Version	Eselective, Kselective								
			Release	25								
Load side	Char	Icu (kA)	In (A)	16	20	25	35	40	50	63	80	100
RCBOs DS301C	B, C	6	6	T	T	T	T	T	T	T	T	T
			10	T	T	T	T	T	T	T	T	T
			13		T	T	T	T	T	T	T	T
			16			T	T	T	T	T	T	T
			20				T	T	T	T	T	T

S750 - RCBOs DS301C @230/240 V

			Supply side	S750								
			Version	Eselective, Kselective								
			Release	25								
Load side	Char	Icu (kA)	In (A)	16	20	25	35	40	50	63		
RCBOs DS301C	B, C	6	6	T	T	T	T	T	T	T	T	
			10	T	T	T	T	T	T	T	T	T
			13		T	T	T	T	T	T	T	T
			16			T	T	T	T	T	T	T
			20				T	T	T	T	T	T

Fuses - RCBOs DS301C @230/240 V

			Supply side	Fuses gG								
Load side	Char	Icu (kA)	In (A)	25	32	40	50	63	80	100	125	
RCBOs DS301C	B, C	6	6	1.5	1.5	1.5	3	T	T	T	T	
			10		1.5	1.5	3	T	T	T	T	
			13		1.5	1.5	3	4.5	T	T	T	
			16		1.5	1.5	3	4.5	T	T	T	
			20		1.5	1.5	3	4.5	T	T	T	

RCBO DS301C

Accessories

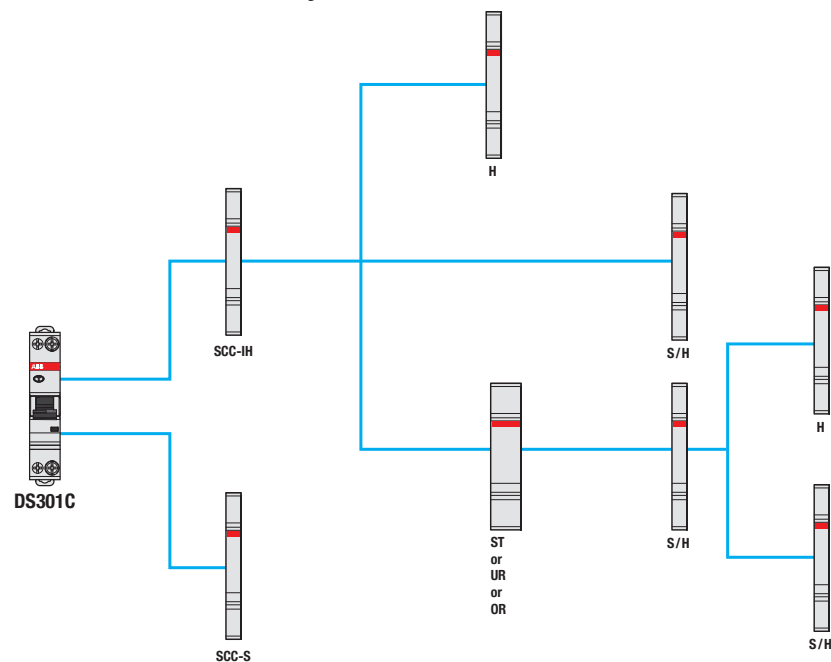


Locking devices for DS301C

The locking devices prevent unauthorized or dangerous operation of circuit breakers' switching lever. An adaptor (SA 1) makes it possible to block the circuit breaker lever with a padlock having cross bar section or either 3 or 6mm max. For multipole configuration it is sufficient to apply a single lock. The lock adaptor can be used for all RCBO DS301C. To purchase multiple padlocks that all have the same key use SA 2 i. To purchase padlocks that each have a different key use SA 2

		Bbn	Order details		Price	Weight	Pack
		4016779	Type code	Order code	1 piece	1 piece	unit
		EAN				kg	pc.
locking devices	3 mm	58760 5	SA 1	GJF1101903R0001		0.004	10
adaptor for padlock bar	6 mm	58790 2	SA 1E	GJF1101903R0004		0.004	10
padlock with 2 keys	10	58770 4	SA 2	GJF1101903R0002		0.02	10
padlock, with 2 identical keys	13	96940 1	SA 2i	GJF1109999R0001		0.02	10
transparent box incl. adaptor and padlock with 3 keys	16	58780 3	SA 3	GJF1101903R0003		0.05	10

Combination of auxiliary elements with DS301C



SCC-IH	Auxiliary slim range adapter	SCC-IH6R
SCC-S	Signal slim range adapter	SCC-S6R
H	Auxiliary contact	S2C-H6R
S/H	Signal/auxiliary contact	S2C-S/H6R
ST	Shunt trip	S3C-A
UR	Undervoltage release	S2C-UA
OR	Overvoltage release	S2C-OVP

Busbars and busbars' accessories for compact RCBOs DS301C

Busbars PSc



PSc Busbars									
No. of Modules	Phases	mm ²	EAN	Type code	Order code	Space for auxiliary	Weight 1 piece	Pack unit	
12	1	10	4053546050516	PSc 1/24/10 N	2CDL210331R1012		0.103	10	
18	1	10	4053546163636	PSc 1/36/10 N	2CDL230331R1018		0.166	10	
56	1	10	4053546050530	PSc 1/114/10 N	2CDL210331R1060		0.511	10	
10	3	10	4053546163513	PSc 3/20/10 N	2CDL230331R1010		0.115	10	
12	3	10	4053546050554	PSc 3/24/10 N	2CDL230331R1012		0.145	10	
56	3	10	4053546050561	PSc 3/114/10 N	2CDL230331R1060		0.725	10	
8	1	10	4053546055221	PSc 1/16/10 NH	2CDL210332R1012	■	0.094	10	
39	1	10	4053546055252	PSc 1/78/10 NH	2CDL210332R1060	■	0.464	10	
8	3	10	4053546055276	PSc 3/16/10 NH	2CDL230332R1012	■	0.12	10	
39	3	10	4053546055290	PSc 3/78/10 NH	2CDL230332R1060	■	0.65	10	



Accessories

End Caps

EAN	Type code	Order code	Weight 1 piece	Pack unit
4053546051131	PSc-END	2CDL200331R0003	0.015	10



Shock protection Caps

EAN	Type code	Order code	Weight 1 piece	Pack unit
4053546051124	BSKc	2CDL200331R0013	0.001	10



Feeder terminal IP 20

EAN	Type code	Order code	Weight 1 piece	Pack unit
4053546143133	AST 25/25 QIR	2CDL200003R2525	0.014	10

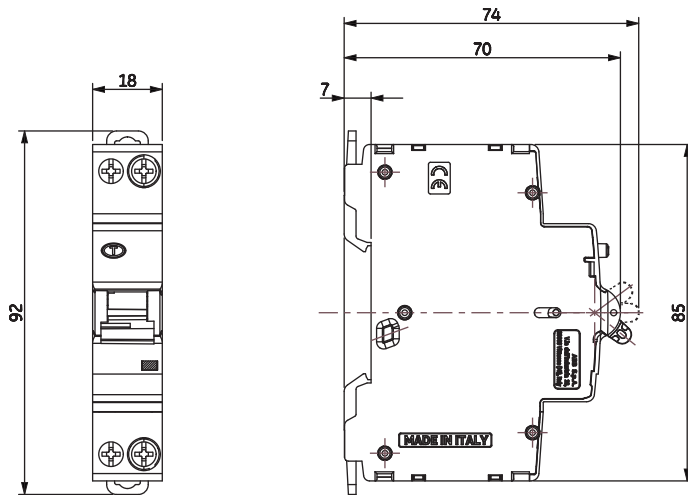


RCBO DS301C

Dimensions

Overall dimensions

All measurements in mm



Main connection

