

RCBO DS301C

Slim solutions for a 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)

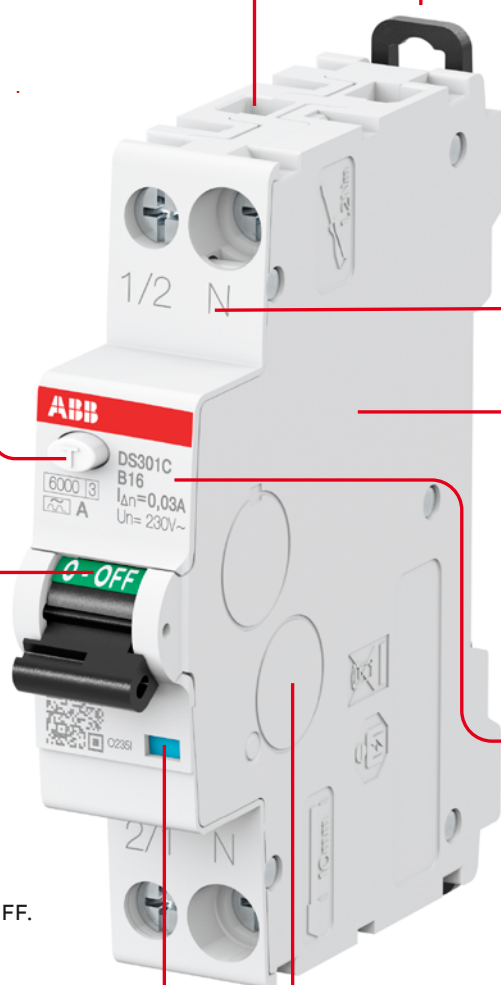
The toggle has a clear color that indicates the level position ON/OFF.

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.



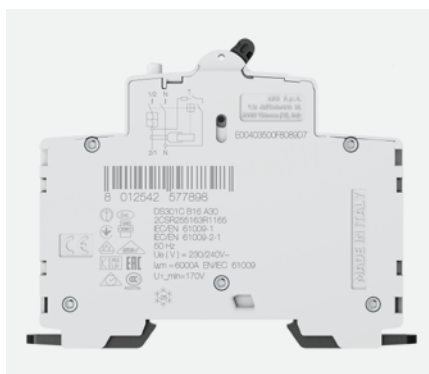
Display the operational status

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.

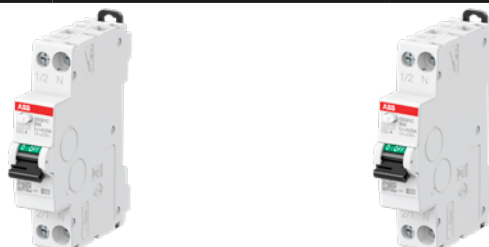


Mounting clip

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

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		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	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	170
	Rated frequency f	50	50
	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: $5 I_n \leq I_n \leq 10 I_n$	■	■
Mechanical features	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
	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

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			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
	Supply from		Top/Bottom terminals	Top/Bottom terminals
Dimension and weight	Dimensions (H x D x W)	mm	92 x 68 x 17.6	92 x 68 x 17.6
	Weight	g	110	110
Combination with auxiliary elements	Combinable with accessories and auxiliaries	Auxiliary contact	No	No
		Signal contact / auxiliary contact	No	No
		Shunt trip	No	No
		Auxiliary contact for bottom fitting	No	No
		Undervoltage release	No	No
		Overvoltage release	No	No
		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  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  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 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