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 PRODUCT-DETAILS

## DS301C B13 A30

# Residual Current Circuit Breaker with Overcurrent Protection DS301C - 1P+N - 30 mA - 13 A - B - Type A




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### General Information

Extended Product Type	DS301C B13 A30
Product ID	2CSR255163R1135
EAN	8012542359654
Catalog Description	Residual Current Circuit Breaker with Overcurrent Protection DS301C - 1P+N - 30 mA - 13 A - B - Type A
Long Description	The DS301C series is a 1P+N RCBO in one module width for the 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 contacts and additional protection against direct contacts

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### ABB EcoSolutions

ABB EcoSolutions	Yes
EcoSolutions Profile	9AKK108471A0996
Recyclability Rate of the Product acc. to EN45555	Design for Closing Resource Loops - Standard EN45555 - 79.18 %
Material Resource Reduction (wt. %)	Design for Reduced Resource Consumption - 45 %
ABB Site Meeting Group	No non-hazardous waste is sent to a landfill

Waste To Landfill Target	UL 2799 Zero Waste To Landfill Validation available
Sustainable Material Content in Packaging (wt. %)	Recycled Cardboard - 71.18 % Recycled Paper - 0 %
Improved Energy Efficiency for Customers	Product Efficiency - Product considered more energy-efficient compared to similar product on market or older products from the same line
Extended Product Lifetime	Product Durability
End Of Life Disassembling Instructions	9AKK108469A2271
Environmental Product Declaration - EPD	9AKK108468A8865

## Technical

Type of Residual Current	Type A
Test Voltage (Ut)	170 ... 264 V
Dielectric Test Voltage	2.5 kV
Rated Ultimate Short-Circuit Breaking Capacity (I <sub>cu</sub> )	6 kA
Rated Residual Breaking Capacity (I <sub>Δm</sub> )	EN 61009-1 6000 A IEC 61009-1 4500 A
Rated Service Short-Circuit Breaking Capacity (I <sub>cs</sub> )	6 kA
Power Supply Connection	Arbitrary
Contact Position Indication	Red ON / Green OFF
Energy Limiting Class	3
Electrical Endurance	7000 cycle
Mechanical Endurance	7000 cycle
Number of Protected Poles	1
Number of Poles	1P+N
Number of Modular Spacings per DIN Rail	1
Fault Indication	Blue Flag Below Toggle
Operating Characteristic	Instantaneous
Position of Neutral Terminals	Right
Tightening Torque	1.2 N·m
Accessory Type	Busbar Psc series, Padlock
Actuator Type	Toggle - Insulation group II, Black RAL 9005, sealable in ON-OFF positions
Housing Type	Insulation group I - II, RAL 7035
Screw Terminal Type	Failsafe Bi-directional Cylinder-lift Terminal
Options Provided	Screwless ( Please check equivalent DSX301C )
Accessories Available	No
Connecting Capacity	Busbar 10 ... 10 mm <sup>2</sup> Rigid 1.5 ... 16 mm <sup>2</sup> Flexible 1.5 ... 16 mm <sup>2</sup>
Rated Cross-Section	1 - Solid-Core 1.5 ... 16 mm <sup>2</sup> 4 - Multi-Wired 1.5 ... 10 mm <sup>2</sup>
Wire Stripping Length	10 mm
Terminal Type	Screw Terminals

## Electrical

Tripping Characteristic	B
Rated Operational Voltage	acc. to IEC 60898-1 240 V
Rated Insulation Voltage (U <sub>i</sub> )	acc. to IEC/EN 60664-1 500 V
Rated Impulse Withstand Voltage (U <sub>imp</sub> )	4 kV
Input Voltage Type	AC
Rated Current (I <sub>n</sub> )	13 A
Rated Residual Current	30 mA
Rated Short-Circuit Capacity	6 kA
Rated Frequency (f)	50 Hz
Power Loss	Average per Pole 1.235 W Phase Pole 2.12 W Neutral Pole 0.35 W Total 2.47 W
Overvoltage Category	III

## Material Compliance

RoHS Declaration	9AKK108466A7779
RoHS Information	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
RoHS Date	20220727
REACH Declaration	9AKK108467A9482
REACH Information	True - contains substances > 0.1 mass percentage
REACH Date	20240429
Conflict Minerals Reporting Template (CMRT)	9AKK108468A3363
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)
WEEE B2C / B2B	Business To Consumer

## Environmental

Ambient Air Temperature	Operation -25 ... 55 °C
Reference Ambient Air Temperature	30 °C
Degree of Protection	IP20 IP40
Pollution Degree	2
Environmental Conditions	28 cycles  with 55 °C / 90-96 %  and 25 °C / 95-100 %
Resistance to Vibrations	20 Cycles with Load 0.8 In: 1g or 1mm 50 ... 150 ... 5 Hz
Resistance to Shock acc. to IEC 60068-2-27	25g 2 shocks 13 ms

## Dimensions

Width in Number of Modular Spacings	1
Product Net Width	17.6 mm

Product Net Height	92 mm
Product Net Depth / Length	68 mm
Product Net Weight	110 g
Built-In Depth (t <sub>2</sub> )	17.6 mm

## Engineering

EPLAN Data	9AAF618237_EPLAN
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## Ordering

Package Level 1 Units	box 1 piece
Package Level 1 Gross Weight	0.127 kg
E-Number (Finland)	3214080
E-Number (Norway)	1682787
E-Number (Sweden)	2160189

## Certificates and Declarations

CB Certificate	9AKK107991A9485
CCC Certificate	9AKK108467A0379
CEBEC Certificate	9AKK108466A9450
Declaration of Conformity - CE	9AKK108466A7779
KEMA Certificate	9AKK108467A0378
SEV Certificate	9AKK108467A0377
VDE Certificate	9AKK108466A9224

## Installation

Instructions and Manuals	9AKK107991A9407
Mounting Type	DIN-Rail
Mounting Position	Any

## Popular Downloads

Data Sheet, Technical Information	9AKK108466A9620
Mechanical Drawings	9AKK107991A9486 9AKK107991A9487

## External Classifications and Standards

ETIM 9	EC000905 - Earth leakage circuit breaker
ETIM 10	EC000905 - Earth leakage circuit breaker
UNSPSC	39121601
eClass	V11.0 : 27142207
IDEA Granular Category Code (IGCC)	4875 >> Residual current circuit breaker (RCCB)

Object Classification  
Code

F

Standards

IEC/EN 61009-1  
IEC/EN 61009-2-1

## Accessories

Identifier	Description	Type	Quantity	Unit Of Measure
GJF1101903R0004	SA 1E LOCK ADAPTOR	SA1E	1	piece
GJF1101903R0002	SA 2 Padlock with 2 keys	SA2	1	piece
GJF1109999R0001	SA2 PADLOCK	SA2I	1	piece
GJF1101903R0003	SA3 Locking Device, Set incl. padlock	SA3	1	piece
2CDL210331R1012	Busbar PSc 1/24/10 N 12 Modules, 24Pins,10mm <sup>2</sup>	PSc 1/24/10 N	1	piece
2CDL210331R1060	Busbar PSc 1/114/10 N 1 meter long, 114Pins,10mm <sup>2</sup>	PSc 1/120/10 N	1	piece
2CDL230331R1012	Busbar PSc 3/24/10 N 12 Modules, 24Pins,10mm <sup>2</sup>	PSc 3/24/10 N	1	piece
2CDL230331R1060	Busbar PSc 3/114/10 N 1 meter long, 114Pins,10mm <sup>2</sup>	PSc 3/120/10 N	1	piece
2CDL200331R0003	End Cap for PSc Busbars	PSc-END	1	piece
2CDL200331R0013	Shock protection cap for PSc Busbars	BSKc	1	piece

## Categories

Low Voltage Products and Systems → Modular DIN Rail Products → Residual Current Devices RCDs → Residual Current Circuit Breakers with Overcurrent Protection RCBO



