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 PRODUCT-DETAILS

## DS201 L C20 AC30

### Residual Current Circuit Breaker with Overcurrent Protection DS201 L - 1P+N - 30 mA - 20 A - C - Type AC




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#### General Information

<b>Extended Product Type:</b>	DS201 L C20 AC30
<b>Product ID:</b>	2CSR245080R1204
<b>EAN:</b>	8012542030010
<b>Catalog Description:</b>	Residual Current Circuit Breaker with Overcurrent Protection DS201 L - 1P+N - 30 mA - 20 A - C - Type AC
<b>Long Description:</b>	The DS201 series is a 1P+N RCBO in two-modules width for the 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 contacts and additional protection against direct contacts.
<b>Display Name:</b>	DS201 L C20 AC30

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#### ABB EcoSolutions

<b>Carbon Footprint (Full Lifecycle):</b>	40.476512 kg CO <sub>2</sub> eq
<b>ABB EcoSolutions:</b>	Yes

<b>EcoSolutions Profile:</b>	9AKK108470A2163
<b>Recyclability Rate of the Product acc. to EN45555:</b>	Design for Closing Resource Loops - Standard EN45555 - 75.20 %
<b>ABB Site Meeting Group Waste To Landfill Target:</b>	No non-hazardous waste is sent to a landfill UL 2799 Zero Waste To Landfill Validation available
<b>Sustainable Material Content in Packaging (wt. %):</b>	Recycled Cardboard - 98 % Recycled Paper - 00 % Chemically Recycled Polymer - 00 %
<b>Extended Product Lifetime:</b>	Product Durability
<b>End Of Life Disassembling Instructions:</b>	9AKK108469A2268
<b>Environmental Product Declaration - EPD:</b>	9AKK108468A5756

## Technical

<b>Type of Residual Current:</b>	Type AC
<b>Test Voltage (Ut):</b>	Minimum 170 V Maximum 264 V
<b>Dielectric Test Voltage:</b>	2 kV
<b>Rated Ultimate Short-Circuit Breaking Capacity (I<sub>cu</sub>):</b>	6 kA
<b>Rated Residual Breaking Capacity (I<sub>Δm</sub>):</b>	EN 61009-1 4500 A IEC 61009-1 4500 A
<b>Rated Service Short-Circuit Breaking Capacity (I<sub>cs</sub>):</b>	4.5 kA
<b>Maximum Surge Current:</b>	0 kA
<b>Power Supply Connection:</b>	Arbitrary
<b>Contact Position Indication:</b>	Red ON / Green OFF
<b>Energy Limiting Class:</b>	3
<b>Electrical Endurance:</b>	10000 cycle
<b>Mechanical Endurance:</b>	20000 cycle
<b>Number of Protected Poles:</b>	1
<b>Number of Poles:</b>	1P+N
<b>Number of Modular Spacings per DIN Rail:</b>	2
<b>Fault Indication:</b>	Blue Flag on Toggle
<b>Operating Characteristic:</b>	Instantaneous
<b>Position of Neutral Terminals:</b>	Right
<b>Tightening Torque:</b>	2.8 N·m
<b>Accessory Type:</b>	Auxiliary contact, Signal contact / auxiliary contact, Shunt trip, Auxiliary contact for bottom fitting, Overvoltage release, Motor operating device
<b>Actuator Type:</b>	Toggle
<b>Housing Type:</b>	Insulation group I - II, RAL 7035
<b>Screw Terminal Type:</b>	Failsafe Bi-directional Cylinder-lift Terminal
<b>Actuator Material:</b>	Insulation Group II, Black, Sealable
<b>Accessories Available:</b>	Yes
<b>Number of Batteries:</b>	0

<b>Connecting Capacity:</b>	Busbar 10 ... 10 mm <sup>2</sup> Stranded 0.75 ... 25 mm <sup>2</sup> Flexible with Ferrule 0.75 ... 16 mm <sup>2</sup> Flexible 0.75 ... 16 mm <sup>2</sup>
<b>Wire Stripping Length:</b>	12 mm
<b>Terminal Type:</b>	Screw Terminals

## Electrical

<b>Tripping Characteristic:</b>	C
<b>Rated Operational Voltage:</b>	acc. to IEC 60898-1 240 V
<b>Rated Insulation Voltage (U<sub>i</sub>):</b>	acc. to IEC/EN 60664-1 500 V
<b>Rated Impulse Withstand Voltage (U<sub>imp</sub>):</b>	4 kV
<b>Input Voltage Type:</b>	AC
<b>Rated Current (I<sub>n</sub>):</b>	20 A
<b>Rated Residual Current:</b>	30 mA
<b>Rated Short-Circuit Capacity:</b>	4.5 kA
<b>Rated Conditional Short-Circuit Current (I<sub>nc</sub>):</b>	6 kA
<b>Rated Frequency (f):</b>	50 / 60 Hz
<b>Power Loss:</b>	Average per Pole 2.8 W Phase Pole 3.8 W Neutral Pole 1.8 W Total 5.7 W
<b>Overvoltage Category:</b>	III

## Material Compliance

<b>RoHS Declaration:</b>	9AKK106713A5588
<b>RoHS Information:</b>	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
<b>RoHS Date:</b>	20211115
<b>REACH Declaration:</b>	9AKK108467A9482
<b>REACH Information:</b>	True - contains substances > 0.1 mass percentage
<b>REACH Date:</b>	20240429
<b>Conflict Minerals Reporting Template (CMRT):</b>	9AKK108468A3363
<b>SCIP:</b>	db6d8e8d-2fd8-444f-ba68-76cfb09d3ab0 Italy
<b>WEEE Category:</b>	5. Small Equipment (No External Dimension More Than 50 cm)
<b>WEEE B2C / B2B:</b>	Business To Consumer

## Environmental

<b>Ambient Air Temperature:</b>	Operation -25 ... 55 °C
<b>Reference Ambient Air Temperature:</b>	30 °C

<b>Degree of Protection:</b>	IP20 IP40
<b>Pollution Degree:</b>	2
<b>Environmental Conditions:</b>	28 cycles with 55 °C / 90-96 % and 25 °C / 95-100 %
<b>Resistance to Vibrations:</b>	20 Cycles with Load 0.8 In: 1g or 0.1mm 5...150...5 Hz
<b>Resistance to Shock acc. to IEC 60068-2-27:</b>	25g 2 shocks 13 ms
<b>Environmental Information:</b>	2CSC422002K2701

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## Dimensions

<b>Width in Number of Modular Spacings:</b>	2
<b>Product Net Width:</b>	35 mm
<b>Product Net Height:</b>	85 mm
<b>Product Net Depth / Length:</b>	69 mm
<b>Product Net Weight:</b>	200 g
<b>Built-In Depth (t<sub>2</sub>):</b>	69 mm

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## Engineering

<b>EPLAN Data:</b>	9AAC554444_EPLAN
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## Ordering

<b>Package Level 1 Units:</b>	box 1 piece
<b>Package Level 1 Gross Weight:</b>	225 g

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## Certificates and Declarations

<b>CB Certificate:</b>	9AKK107492A6062
<b>CCC Certificate:</b>	9AKK107492A6068
<b>Declaration of Conformity - CE:</b>	9AKK106713A5588
<b>EAC Certificate:</b>	9AKK107492A6071 9AKK107991A7755
<b>GOST Certificate:</b>	9AKK107992A1640
<b>IMQ Certificate:</b>	9AKK107492A6073

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## Installation

<b>Instructions and Manuals:</b>	9AKK107492A6006
<b>Mounting Type:</b>	DIN-Rail

Mounting Position: Any

## Popular Downloads

Data Sheet, Technical Information: 9AKK107492A6187

## External Classifications and Standards

ETIM 9: EC000905 - Earth leakage circuit breaker

ETIM 10: EC000905 - Earth leakage circuit breaker

eClass: V11.0 : 27142207

Object Classification Code: F

Standards: IEC/EN 61009-1, IEC/EN 61009-2-1

## Accessories

Identifier	Description	Type	Qty	Unit Of Measure
2CDS200912R0001	S2C-H6R Auxiliary Contact 1CO	S2C-H6R	1	piece
2CDS200922R0001	S2C-S/H6R Universal Auxiliary/Signal Con	S2C-S/H6R	1	piece
2CDS200946R0001	S2C-H6-11R Auxiliary contact 1NO/1NC	S2C-H6-11R	1	piece
2CDS200946R0002	S2C-H6-20R Auxiliary contact 2NO	S2C-H6-20R	1	piece
2CDS200946R0003	S2C-H6-02R Auxiliary contact 2NC	S2C-H6-02R	1	piece
2CDS200970R0031	S2C-H01 Bottom-fitting auxiliary contact S2C-H01 Bottom-fitting auxiliary contact 1NC	S2C-H01	1	piece
2CDS200970R0032	S2C-H10 Bottom-fitting auxiliary contact 1NO	S2C-H10	1	piece
2CSS200910R0005	S2C-OVP1 Overvoltage release	S2C-OVP1	1	piece
2CSS200933R0011	Shunt trip F2C-A	F2C-A1	1	piece
2CSS200933R0012	Shunt trip F2C-A	F2C-A2	1	piece
2CSS200993R0005	S2C-OVP2 Overvoltage release	S2C-OVP2	1	piece

## Categories

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

