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 PRODUCT-DETAILS

## DSE201D C20 A30

Residual Current Circuit Breaker with  
Overcurrent Protection DSE201D - 1P - 30 mA -  
20 A - C - Type A




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### General Information

<b>Extended Product Type:</b>	DSE201D C20 A30
<b>Product ID:</b>	2CSR255158R1204
<b>EAN:</b>	8012542425250
<b>Catalog Description:</b>	Residual Current Circuit Breaker with Overcurrent Protection DSE201D - 1P - 30 mA - 20 A - C - Type A
<b>Long Description:</b>	1P+N electronic 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 earth fault currents; protection against indirect contacts and additional protection against direct contacts (with sensitivity = 30 mA). Presence of neutral (blue or black) and functional earth (white) flying leads. The neutral is unswitched
<b>Display Name:</b>	DSE201D C20 A30

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### ABB EcoSolutions

**Recyclability Rate of the Product acc. to EN45555:** Design for Closing Resource Loops - Standard EN45555 - 83.2 %

**ABB Site Meeting Group Waste To Landfill Target:** No non-hazardous waste is sent to a landfill  
UL 2799 Zero Waste To Landfill Validation available

**Sustainable Material Content in Packaging (wt. %):** Recycled Cardboard - 96.89 %

**Extended Product Lifetime:** Product Durability

**End Of Life Disassembling Instructions:** 9AKK108470A4699

**Environmental Product Declaration - EPD:** 9AKK108470A7841

## Technical

<b>Type of Residual Current:</b>	Type A
<b>Test Voltage (Ut):</b>	195 ... 264 V
<b>Dielectric Test Voltage:</b>	2 kV
<b>Rated Ultimate Short-Circuit Breaking Capacity (I<sub>cu</sub>):</b>	10 kA
<b>Rated Residual Breaking Capacity (I<sub>Δm</sub>):</b>	6 kA
<b>Rated Service Short-Circuit Breaking Capacity (I<sub>cs</sub>):</b>	6 kA
<b>Rated Service Short-Circuit Breaking Capacity, in % of I<sub>cu</sub> (I<sub>cs</sub>):</b>	6 kA
<b>Power Supply Connection:</b>	Bottom
<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
<b>Number of Modular Spacings per DIN Rail:</b>	1
<b>Fault Indication:</b>	Blue Window
<b>Operating Characteristic:</b>	Instantaneous
<b>Position of Neutral Terminals:</b>	Right
<b>Tightening Torque:</b>	Top 1.2 N·m Bottom 2.8 N·m
<b>Earthing Switch Type:</b>	Undelayed
<b>Housing Type:</b>	Insulation group 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>	No
<b>Number of Batteries:</b>	0
<b>Connecting Capacity:</b>	Busbar 10 mm <sup>2</sup> Rigid 1...35 mm <sup>2</sup> Flexible 1...16 mm <sup>2</sup>
<b>Rated Cross-Section:</b>	1 - Solid-Core 16 ... 35 mm <sup>2</sup> 4 - Multi-Wired 16 ... 16 mm <sup>2</sup>

<b>Wire Stripping Length:</b>	Top 11 mm Bottom 12.5 mm
<b>Terminal Type:</b>	Screw Terminals

## Electrical

<b>Short-Circuit Current Rating (SCCR):</b>	0.03 A
<b>Tripping Characteristic:</b>	C
<b>Rated Operational Voltage:</b>	230 / 240 V AC
<b>Rated Insulation Voltage (U<sub>i</sub>):</b>	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>	6 kA
<b>Rated Frequency (f):</b>	50 ... 60 Hz
<b>Power Loss:</b>	Total 3.0 W
<b>Overvoltage Category:</b>	III

## Material Compliance

<b>RoHS Declaration:</b>	9AKK107991A6853
<b>RoHS Information:</b>	Following EU Directive 2011/65/EU
<b>RoHS Date:</b>	20200527
<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>	22680d4e-70aa-4939-80cf-cb5cdc2737d5 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 Storage -40 ... 70 °C
<b>Reference Ambient Air Temperature:</b>	30 °C
<b>Degree of Protection:</b>	Terminals IP20 Housing IP40
<b>Pollution Degree:</b>	2
<b>Environmental Conditions:</b>	28 cycles with 55 °C / 90-96 % and 25 °C / 95-100 %

**Resistance to Vibrations:** 20 Cycles with Load 0.8 In: 5g or 0.35mm 5 ... 150 Hz

**Resistance to Shock acc. to IEC 60068-2-27:** 30g / 2 shocks / 13 ms

## Dimensions

**Width in Number of Modular Spacings:** 1

**Product Net Width:** 17.5 mm

**Product Net Height:** 115 mm

**Product Net Depth / Length:** 69 mm

**Product Net Weight:** 200 g

**Built-In Depth (t<sub>2</sub>):** 68.9 mm

## Ordering

**Package Level 1 Units:** box 1 piece

**Package Level 1 Gross Weight:** 0.220 kg

## Certificates and Declarations

**Declaration of Conformity - CE:** 9AKK107991A6853

## Installation

**Instructions and Manuals:** 9AKK106930A0912

**Mounting Type:** DIN-Rail

**Mounting Position:** Any

## Popular Downloads

**Data Sheet, Technical Information:** No document needed

**Mechanical Drawings:** 9AKK106930A0964  
9AKK106930A0965

## 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 61009-1  
IEC 61009-2-2  
AS/NZS 61009.1

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## Categories

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



Submitted by TECO Group