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 PRODUCT-DETAILS

## DSE201 M C20 AC30 - N Blue

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




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**General Information**

|                       |   |
|-----------------------|---|
| Extended Product Type | DSE201 M C20 AC30 - N Blue  |
| Product ID            | 2CSR275051R1204   |
| EAN                   | 8012542265931   |
| Catalog Description   | Residual Current Circuit Breaker with Overcurrent Protection - 1P+N - Type AC - 30 mA - 20 A - C  |
| Long Description      | 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 |

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**ABB EcoSolutions**

|   |   |
|---|---|
| ABB EcoSolutions                                  | Yes   |
| 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<br>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

|   |  |
|---|--|
| Type of Residual Current  | Type AC  |
| Maximum Operating Voltage   | 264 V  |
| Test Voltage (Ut)   | 195 ... 264 V  |
| Dielectric Test Voltage   | 2 kV   |
| Rated Ultimate Short-Circuit Breaking Capacity (I <sub>cu</sub> )                         | 15 kA  |
| Rated Residual Breaking Capacity (I <sub>Δm</sub> )                                       | 10 kA  |
| Rated Service Short-Circuit Breaking Capacity (I <sub>cs</sub> )                          | 7.5 kA   |
| Rated Service Short-Circuit Breaking Capacity, in % of I <sub>cu</sub> (I <sub>cs</sub> ) | 7.5 kA   |
| Maximum Surge Current   | 0.25 kA  |
| Power Supply Connection   | Bottom   |
| Contact Position Indication   | Red ON / Green OFF   |
| Energy Limiting Class   | 3  |
| Electrical Endurance  | 10000 cycle  |
| Mechanical Endurance  | 20000 cycle  |
| Number of Protected Poles   | 1  |
| Number of Poles   | 1P+N   |
| Number of Modular Spacings per DIN Rail   | 1  |
| Fault Indication  | Blue Window  |
| Operating Characteristic  | Instantaneous  |
| Position of Neutral Terminals   | Right  |
| Tightening Torque   | Top 1.2 N·m<br>Bottom 2.8 N·m  |
| Accessory Type  | Auxiliary contact<br>Auxiliary/Signal contact<br>Shunt trip<br>Undervoltage release<br>Overvoltage release<br>Bottom fitting auxiliary contact |
| Actuator Type   | Toggle - Insulation group II, black, sealable in ON-OFF positions  |
| Earthing Switch Type  | Undelayed  |
| Housing Type  | Insulation group II, RAL 7035  |
| Screw Terminal Type   | Failsafe Bi-directional Cylinder-lift Terminal   |
| Options Provided  | None   |
| Accessories Available   | Yes  |
| Connecting Capacity   | Busbar 10 mm <sup>2</sup><br>Rigid 1...35 mm <sup>2</sup><br>Flexible 1...16 mm <sup>2</sup>   |
| Rated Cross-Section   | 1 - Solid-Core 1...35 mm <sup>2</sup><br>4 - Multi-Wired 1 ... 25 mm <sup>2</sup>  |
| Wire Stripping Length   | Top 11 mm<br>Bottom 12.5 mm  |
| Terminal Type   | Screw Terminals  |

## Electrical

|  |                              |
|--|------------------------------|
| Short-Circuit Current Rating (SCCR)                        | 0.03 A                       |
| Tripping Characteristic                                    | C                            |
| 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> )                            | 20 A                         |
| Rated Residual Current                                     | 30 mA                        |
| Rated Short-Circuit Capacity                               | 10 kA                        |
| Rated Conditional Short-Circuit Current (I <sub>nc</sub> ) | 10 kA                        |
| Rated Frequency (f)  | 50 ... 60 Hz                 |
| Power Loss   | 3.0 W                        |
| Overvoltage Category                                       | III                          |

## Material Compliance

|   |  |
|---|--|
| RoHS Information                            | 9AKK106930A1510  |
| RoHS Status                                 | Following EU Directive 2011/65/EU                          |
| RoHS Date                                   | 20160829   |
| 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<br>IP40  |
| Pollution Degree                           | 2   |
| Environmental Conditions                   | 28 cycles<br>with 55 °C / 90-96 %<br>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                   | 18 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 |

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### Ordering

|                              |             |
|------------------------------|-------------|
| Package Level 1 Units        | box 1 piece |
| Package Level 1 Gross Weight | 0.220 kg    |

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### Certificates and Declarations

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|--------------------------------|-----------------|
| Declaration of Conformity - CE | 9AKK106930A0955 |
|--------------------------------|-----------------|

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### Installation

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|--------------------------|-----------------|
| Instructions and Manuals | 9AKK106930A0912 |
| Mounting Type            | DIN-Rail        |
| Mounting Position        | Any             |

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### Popular Downloads

|                                   |                                    |
|-----------------------------------|------------------------------------|
| Data Sheet, Technical Information | 9AKK106930A0939                    |
| Mechanical Drawings               | 9AKK106930A0965<br>9AKK106930A0964 |

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### 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<br>IEC 61009-2-2<br>AS/NZS 61009.1<br>BS EN 61009-1 |

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### Categories

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

