

PRODUCT-DETAILS

# DS201 C20 AC30

## DS201 C20 AC30 Residual Current Circuit Breaker with Overcurrent Protection



### General Information

|                       |  |
|-----------------------|--|
| Extended Product Type | DS201 C20 AC30   |
| Product ID            | 2CSR255080R1204  |
| EAN                   | 8012542049111  |
| Catalog Description   | DS201 C20 AC30 Residual Current Circuit Breaker with Overcurrent Protection  |
| Long Description      | 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 (with sensitivity = 30 mA). |

### Technical

|   |                                  |
|---|----------------------------------|
| Standards                               | IEC/EN 61009-1, IEC/EN 61009-2-1 |
| Tripping Characteristic                 | C                                |
| Type of Residual Current                | AC type                          |
| Rated Voltage ( $U_r$ )                 | 230 V                            |
| Rated Operational Voltage               | 230 / 240 V AC                   |
| Rated Insulation Voltage ( $U_i$ )      | 500 V                            |
| Test Voltage ( $U_t$ )                  | 170 ... 264 V                    |
| Dielectric Test Voltage                 | 2 kV                             |
| Primary Rated Impulse Withstand Voltage | 4 kV                             |

|   |   |
|---|---|
| Input Voltage Type  | AC  |
| Rated Current ( $I_n$ )                                     | 20 A  |
| Rated Residual Current                                      | 30 mA   |
| Rated Short-Circuit Capacity                                | 6 kA  |
| Rated Ultimate Short-Circuit Breaking Capacity ( $I_{cu}$ ) | 10 kA   |
| Rated Residual Breaking Capacity ( $I_{\Delta m}$ )         | EN 61009-1 6000 A<br>IEC 61009-1 6000 A   |
| Rated Conditional Short-Circuit Current ( $I_{nc}$ )        | 10 kA   |
| Rated Service Short-Circuit Breaking Capacity ( $I_{cs}$ )  | 7.5 kA  |
| Maximum Surge Current                                       | 0 kA  |
| Leakage Current Type  | AC  |
| Frequency (f)   | 50/60 Hz  |
| Rated Frequency (f)   | 50 ... 60 Hz  |
| Power Loss  | 3.6 W   |
| Power Supply Connection                                     | Arbitrary   |
| Contact Position Indication                                 | Red ON / Green OFF  |
| Energy Limiting Class                                       | 3   |
| Electrical Endurance  | 10000 cycle   |
| Mechanical Endurance  | 20000 cycle   |
| Number of Poles   | 2   |
| Number of Protected Poles                                   | 1   |
| Number of Modular Spacings per DIN Rail                     | 2   |
| Fault Indication  | Blue flag on toggle   |
| Operating Characteristic                                    | Instantaneous   |
| Overvoltage Category  | III   |
| Position of Neutral Terminals                               | Right   |
| Tightening Torque   | 2.8 N·m   |
| Accessory Type  | Auxiliary contact, Signal contact / auxiliary contact, Shunt trip, Auxiliary contact for bottom fitting, Overvoltage release, Motor operating device                  |
| Actuator Type   | Toggle - Insulation group II, Black RAL 9005, sealable in ON-OFF positions  |
| Housing Type  | Insulation group I - II, RAL 7035   |
| Mounting Type   | on DIN rail EN 60715 (35mm) by means of mounting clip   |
| Release Type  | C   |
| Screw Terminal Type   | Failsafe Bi-directional Cylinder-lift Terminal  |
| Mounting Position   | Any   |
| Accessories Available                                       | Yes   |
| Number of Batteries   | 0   |
| Cable Size  | 25 mm <sup>2</sup>  |
| Connecting Capacity   | Busbar 10 ... 10 mm <sup>2</sup><br>Stranded 0.75 ... 25 mm <sup>2</sup><br>Flexible with Ferrule 0.75 ... 16 mm <sup>2</sup><br>Flexible 0.75 ... 16 mm <sup>2</sup> |
| Wire Stripping Length                                       | 12 mm   |
| Terminal Type   | Screw Terminals   |

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**Environmental**


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|   |  |
|---|--|
| Ambient Temperature                               | -25...55 °C  |
| Ambient Air Temperature                           | Operation -25...55 °C  |
| Reference Ambient Air Temperature                 | 30 °C  |
| Degree of Protection                              | Terminals IP20<br>Housing IP40   |
| Pollution Degree                                  | 2  |
| Environmental Conditions                          | 28 cycles<br>with 55 °C / 90-96 %<br>and 25 °C / 95-100 %              |
| Resistance to Vibrations<br>acc. to IEC 60068-2-6 | 0.1 mm or 1 g - 20 cycles at 5...150.5 Hz                              |
| Resistance to Shock acc.<br>to IEC 60068-2-27     | 25g 2 shocks 13 ms   |
| RoHS Status                                       | Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 |
| Environmental Information                         | 2CSC422002K2701  |
| REACH Declaration                                 | 9AKK108467A9482  |

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**Dimensions**


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|--|----------|
| Width in Number of<br>Modular Spacings | 2        |
| Product Net Width                      | 0.035 m  |
| Product Net Height                     | 0.085 m  |
| Product Net Depth /<br>Length          | 0.069 m  |
| Product Net Weight                     | 0.200 kg |
| Built-In Depth (t <sub>2</sub> )       | 69 mm    |

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**Container Information**


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|-----------------------------------|---------------|
| Package Level 1 Units             | box 1 piece   |
| Package Level 1 Width             | 40 mm         |
| Package Level 1 Height            | 106 mm        |
| Package Level 1 Depth /<br>Length | 80 mm         |
| Package Level 1 Gross<br>Weight   | 225 g         |
| Package Level 1 EAN               | 8012542049111 |
| Package Level 2 Units             | box 5 piece   |
| Package Level 2 Width             | 200 mm        |
| Package Level 2 Height            | 106 mm        |
| Package Level 2 Depth /<br>Length | 80 mm         |
| Package Level 2 Gross<br>Weight   | 1125 g        |
| Package Level 2 EAN               | 8012542572916 |

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**Ordering**


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|------------------------|------------|
| Minimum Order Quantity | 1 piece    |
| Customs Tariff Number  | 85363030   |
| Country of Origin      | Italy (IT) |

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**Certificates and Declarations (Document Number)**


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|                                   |                                    |
|-----------------------------------|------------------------------------|
| ABS Certificate                   | 9AKK107991A2823                    |
| CB Certificate                    | 9AKK107492A6060                    |
| CCC Certificate                   | 9AKK107492A6067                    |
| Declaration of Conformity<br>- CE | 9AKK106713A5588                    |
| DNV GL Certificate                | 9AKK107680A3457<br>9AKK107680A3456 |
| EAC Certificate                   | 9AKK107492A6071<br>9AKK107991A7755 |
| Environmental Information         | 2CSC422002K2701                    |
| GOST Certificate                  | 9AKK107992A1640                    |
| Instructions and Manuals          | 9AKK107492A6006                    |
| ÖVE Certificate                   | 9AKK107492A6085                    |
| REACH Declaration                 | 9AKK108467A9482                    |
| RMRS Certificate                  | 9AKK107680A3454<br>9AKK107680A3455 |
| RoHS Information                  | 9AKK106713A5588                    |

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**Popular Downloads**


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|                                      |                 |
|--------------------------------------|-----------------|
| Data Sheet, Technical<br>Information | 9AKK107492A6187 |
| Instructions and Manuals             | 9AKK107492A6006 |
| EPLAN Macro                          | 9AKK107680A0597 |

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**Classifications**


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|----------------------------|--|
| ETIM 7                     | EC000905 - Earth leakage circuit breaker   |
| ETIM 8                     | EC000905 - Earth leakage circuit breaker   |
| EPLAN Catalog Tree         | Electrical engineering / Protection devices / Ground fault current circuit breaker |
| WEEE Category              | 5. Small Equipment (No External Dimension More Than 50 cm)                         |
| WEEE B2C / B2B             | Business To Consumer   |
| CN8                        | 85363030   |
| eClass                     | V11.0 : 27142207   |
| Object Classification Code | F  |

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**Accessories**


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| Identifier      | Description                          | Type       | Quantity | Unit Of Measure |
|-----------------|--------------------------------------|------------|----------|-----------------|
| 2CDS200912R0001 | S2C-H6R Auxiliary Contact            | S2C-H6R    | 1        | piece           |
| 2CDS200922R0001 | S2C-S/H6R Signal / Auxiliary Contact | S2C-S/H6R  | 1        | piece           |
| 2CDS200946R0001 | S2C-H6-11R Auxiliary Contact         | S2C-H6-11R | 1        | piece           |
| 2CDS200946R0002 | S2C-H6-20R Auxiliary Contact         | S2C-H6-20R | 1        | piece           |
| 2CDS200946R0003 | S2C-H6-02R Auxiliary Contact         | S2C-H6-02R | 1        | piece           |
| 2CDS200970R0031 | S2C-H01 Auxiliary Contact            | S2C-H01    | 1        | piece           |
| 2CDS200970R0032 | S2C-H10 Auxiliary Contact            | S2C-H10    | 1        | piece           |
| 2CSS200910R0005 | S2C-OVP1 Overvoltage release         | S2C-OVP1   | 1        | piece           |
| 2CSS200933R0011 | F2C-A1 Shunt trip                    | F2C-A1     | 1        | piece           |
| 2CSS200933R0012 | F2C-A2 Shunt trip                    | F2C-A2     | 1        | piece           |
| 2CSS200993R0005 | S2C-OVP2 Overvoltage release         | S2C-OVP2   | 1        | piece           |
| 2CSS203997R0013 | S2C-CM2/3 Motor operating device     | S2C-CM2/3  | 1        | piece           |

### Categories

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

