



PRODUCT-DETAILS

DS201 K1 A30

DS201 K1 A30 Residual Current Circuit Breaker with Overcurrent Protection



| General Information | |
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| Extended Product Type | DS201 K1 A30 |
| Product ID | 2CSR255180R1017 |
| EAN | 8012542295310 |
| Catalog Description | DS201 K1 A30 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 and direct pulsating earth fault currents; protection against indirect contacts and additional protection against direct contacts. |

| Technical | |
|--|----------------------------------|
| Standards | IEC/EN 61009-1, IEC/EN 61009-2-1 |
| Tripping Characteristic | K |
| Type of Residual Current | Type A |
| Rated Voltage (U _r) | 230 V |
| Rated Operational Voltage | acc. to IEC 60898-1 240 V |
| Rated Insulation Voltage (U _i) | acc. to IEC/EN 60664-1 500 V |

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| Test Voltage (Ut) | 170 ... 264 V |
| Rated Impulse Withstand Voltage (U _{imp}) | 4 kV |
| Dielectric Test Voltage | 2 kV |
| Primary Rated Impulse Withstand Voltage | 4 kV |
| Input Voltage Type | AC |
| Rated Current (I _n) | 1 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 _{Δm}) | EN 61009-1 6000 A 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 |
| Rated Service Short-Circuit Breaking Capacity, in % of I _{cu} (I _{cs}) | 6 kA |
| Leakage Current Type | A |
| Frequency (f) | 50/60 Hz |
| Rated Frequency (f) | 50 ... 60 Hz |
| Power Loss | Average per Pole 0.7 W Phase Pole 1.4 W Neutral Pole 0.0 W Total 1.4 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 Protected Poles | 1 |
| Number of Poles | 2 |
| 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 |
| Earthing Switch Type | Undelayed |
| Housing Type | Insulation group I - II, RAL 7035 |
| Mounting Type | DIN-Rail |
| Release Type | K |
| Screw Terminal Type | Failsafe Bi-directional Cylinder-lift Terminal |
| Mounting Position | Any |

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| Accessories Available | Yes |
| Number of Batteries | 0 |
| Cable Size | 25 mm ² |
| Connecting Capacity | Busbar 10 ... 10 mm ² Stranded 0.75 ... 25 mm ² Flexible with Ferrule 0.75 ... 16 mm ² Flexible 0.75 ... 16 mm ² |
| Rated Cross-Section | 1 - Solid-Core 0.75-25 mm ² 4 - Multi-Wired 0.75-16 mm ² |
| Wire Stripping Length | 12 mm |
| Terminal Type | Screw Terminals |

Material Compliance

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| RoHS Information | 9AKK106713A5588 |
| RoHS Status | Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 |
| RoHS Date | 20211115 |
| REACH Declaration | 9AKK108467A9482 |
| Conflict Minerals Reporting Template (CMRT) | 9AKK108468A3363 |

Environmental

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| Ambient Temperature | -25...55 °C |
| Ambient Air Temperature | Operation -25 ... 55 °C |
| Reference Ambient Air Temperature | 20 °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 |
| Environmental Information | 2CSC422002K2701 |

Dimensions

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

Ordering

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| Package Level 1 Units | box 1 piece |
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| Package Level 1 Gross Weight | 225 g |
| E-Number (Finland) | 3211177 |
| E-Number (Sweden) | 2100529 |

Certificates and Declarations

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| CB Certificate | 9AKK107492A6060 |
| Declaration of Conformity - CE | 9AKK106713A5588 |
| ÖVE Certificate | 9AKK107492A6085 |

Installation

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| Instructions and Manuals | 9AKK107492A6006 |
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Popular Downloads

| | |
|-----------------------------------|-----------------|
| Data Sheet, Technical Information | 9AKK107492A6187 |
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Classifications

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| ETIM 8 | EC000905 - Earth leakage circuit breaker |
| ETIM 9 | EC000905 - Earth leakage circuit breaker |
| WEEE Category | 5. Small Equipment (No External Dimension More Than 50 cm) |
| WEEE B2C / B2B | Business To Consumer |
| CN8 | 85363010 |
| eClass | V11.0 : 27142207 |
| Object Classification Code | F |

Accessories

| Identifier | Description | Type | Quantity | Unit Of Measure |
|-----------------|--------------------------------------|---------------|----------|-----------------|
| 2CSS200911R0001 | S2C-UA 12 DC Undervoltage Release | S2C-UA 12 DC | 1 | piece |
| 2CSS200911R0002 | S2C-UA 24 AC Undervoltage Release | S2C-UA 24 AC | 1 | piece |
| 2CSS200911R0003 | S2C-UA 48 AC Undervoltage Release | S2C-UA 48 AC | 1 | piece |
| 2CSS200911R0004 | S2C-UA 110 AC Undervoltage Release | S2C-UA 110 AC | 1 | piece |
| 2CSS200911R0005 | S2C-UA 230 AC Undervoltage Release | S2C-UA 230 AC | 1 | piece |
| 2CSS200911R0006 | S2C-UA 400 AC Undervoltage Release | S2C-UA 400 AC | 1 | piece |
| 2CSS200911R0007 | S2C-UA 24 DC Undervoltage Release | S2C-UA 24 DC | 1 | piece |
| 2CSS200911R0008 | S2C-UA 48 DC Undervoltage Release | S2C-UA 48 DC | 1 | piece |
| 2CSS200911R0009 | S2C-UA 110 DC Undervoltage Release | S2C-UA 110 DC | 1 | piece |
| 2CSS200911R0010 | S2C-UA 230 DC Undervoltage Release | S2C-UA 230 DC | 1 | piece |
| 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

