PRODUCT-DETAILS

# DS201 C40 APR30

# DS201 C40 APR30 Residual Current Circuit Breaker with Overcurrent Protection



## General Information

| | |
|---|---|
| Extended Product Type | DS201 C40 APR30 |
| Product ID | 2CSR255480R1404 |
| EAN | 8012542658610 |
| Catalog Description | DS201 C40 APR30 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. The APR type provides an optimal trade-off between safety and continuity of service, thanks to the resistance to unwanted trippings, offering good protection and isolation of resistive and inductive loads. |

## Technical

| | |
|---|---|
| Standards | IEC/EN 61009-1, IEC/EN 61009-2-1 |
| Tripping Characteristic | C |
| Type of Residual Current | A type |
| Rated Voltage ($U_r$) | 230 V |
| Rated Operational Voltage | acc. to IEC 60898-1 240 V |
| Rated Insulation Voltage | acc. to IEC/EN 60664-1 500 V |

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Subject to change without notice

| ($U_i$) | |
|---|---|
| Test Voltage (Ut) | 170 ... 264 V |
| Dielectric Test Voltage | 2 kV |
| Primary Rated Impulse Withstand Voltage | 4 kV |
| Input Voltage Type | AC |
| Rated Current ($I_n$) | 40 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 (IΔm) | EN 61009-1 6000 A<br>IEC 61009-1 4500 A |
| Rated Conditional Short-Circuit Current ($I_{nc}$) | 10 kA |
| Rated Service Short-Circuit Breaking Capacity ($I_{cs}$) | 7.5 kA |
| Maximum Surge Current | 3 kA |
| Leakage Current Type | A |
| Frequency (f) | 50/60 Hz |
| Rated Frequency (f) | 50 … 60 Hz |
| Power Loss | Average per Pole 4.6 W<br>Phase Pole 5.0 W<br>Neutral Pole 4.1 W<br>Total 9.1 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 (APR High Immunity) |
| 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 |

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|---|---|
| Mounting Type | DIN-Rail |
| Release Type | C |
| Screw Terminal Type | Failsafe Bi-directional Cylinder-lift Terminal |
| Mounting Position | Any |
| Accessories Available | Yes |
| Surge Immunity acc. to IEC 61000-4-5 | 3000 A |
| Number of Batteries | 0 |
| Cable Size | 25 mm² |
| Connecting Capacity | Busbar 10 ... 10 mm²<br>Stranded 0.75 ... 25 mm²<br>Flexible with Ferrule 0.75 ... 16 mm²<br>Flexible 0.75 ... 16 mm² |
| 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 | 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: 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 |

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| | |
|---|---|
| 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 |
| Package Level 1 Gross Weight | 225 g |
| E-Number (Sweden) | 2100494 |

## Certificates and Declarations

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|---|---|
| ABS Certificate | 9AKK107991A2823 |
| CB Certificate | 9AKK107492A6060 |
| CCC Certificate | 9AKK107492A6067 |
| Declaration of Conformity - CE | 9AKK106713A5588 |
| DNV GL Certificate | 9AKK107680A3457<br>9AKK107680A3456 |
| EAC Certificate | 9AKK107492A6071<br>9AKK107991A7755 |
| GOST Certificate | 9AKK107992A1640 |
| KEMA Certificate | 9AKK107492A6076 |
| ÖVE Certificate | 9AKK107492A6085 |
| RMRS Certificate | 9AKK107680A3454<br>9AKK107680A3455 |
| VDE Certificate | 9AKK107492A6092 |

## Installation

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|---|---|
| Instructions and Manuals | 9AKK107492A6006 |

## Popular Downloads

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

## Classifications

| | |
|---|---|
| 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 |

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|---|---|
| CN8 | 85363030 |
| 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

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






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