



PRODUCT-DETAILS

# DS203NC L C10 A30

## DS203NC L C10 A30 Residual Current Circuit Breaker with Overcurrent Protection



| General Information   |                                                                                                                                                                                                                                                            |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Extended Product Type | DS203NC L C10 A30                                                                                                                                                                                                                                          |
| Product ID            | 2CSR246140R1104                                                                                                                                                                                                                                            |
| EAN                   | 8012542354529                                                                                                                                                                                                                                              |
| Catalog Description   | DS203NC L C10 A30 Residual Current Circuit Breaker with Overcurrent Protection                                                                                                                                                                             |
| Long Description      | DS203NC is a 3P+N residual current circuit breaker with overcurrent protection (RCBO) in four modules for the protection against short-circuit currents, overload, earth fault currents, indirect contacts, additional protection against direct contacts. |

| Technical                       |                                                            |
|---------------------------------|------------------------------------------------------------|
| Standards                       | IEC 61009-1<br>IEC 61009-2-1<br>EN 61009-1<br>EN 61009-2-1 |
| Tripping Characteristic         | C                                                          |
| Type of Residual Current        | Type A                                                     |
| Rated Voltage (U <sub>r</sub> ) | 400-415 V AC                                               |
| Rated Operational Voltage       | acc. to IEC 60898-1 415 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> )                                                           | 10 A                                                                                               |
| Rated Residual Current                                                                    | 30 mA                                                                                              |
| Rated Short-Circuit Capacity                                                              | 4.5 kA                                                                                             |
| Rated Ultimate Short-Circuit Breaking Capacity (I <sub>cu</sub> )                         | 6 kA                                                                                               |
| Rated Conditional Short-Circuit Current (I <sub>nc</sub> )                                | 6 kA                                                                                               |
| Rated Service Short-Circuit Breaking Capacity, in % of I <sub>cu</sub> (I <sub>cs</sub> ) | 4.5 kA                                                                                             |
| Maximum Surge Current                                                                     | 0.25 kA                                                                                            |
| Leakage Current Type                                                                      | A                                                                                                  |
| Frequency (f)                                                                             | 50/60 Hz                                                                                           |
| Rated Frequency (f)                                                                       | 50 ... 60 Hz                                                                                       |
| Power Loss                                                                                | 5.6 W                                                                                              |
| Power Supply Connection                                                                   | Arbitrary                                                                                          |
| Energy Limiting Class                                                                     | 3                                                                                                  |
| Electrical Endurance                                                                      | 10000 cycle                                                                                        |
| Mechanical Endurance                                                                      | 20000 cycle                                                                                        |
| Number of Protected Poles                                                                 | 3                                                                                                  |
| Number of Poles                                                                           | 4                                                                                                  |
| Operating Characteristic                                                                  | Instantaneous                                                                                      |
| Overvoltage Category                                                                      | III                                                                                                |
| Position of Neutral Terminals                                                             | Right                                                                                              |
| Earthing Switch Type                                                                      | Undelayed                                                                                          |
| Release Type                                                                              | C                                                                                                  |
| Options Provided                                                                          | None                                                                                               |
| Accessories Available                                                                     | Yes                                                                                                |
| Connecting Capacity                                                                       | Busbar 10 mm <sup>2</sup><br>Rigid 25 ... 25 mm <sup>2</sup><br>Flexible 25 ... 25 mm <sup>2</sup> |
| Rated Cross-Section                                                                       | 1 - Solid-Core 25 ... 25 mm <sup>2</sup><br>4 - Multi-Wired 1 ... 25 mm <sup>2</sup>               |

Material Compliance

|                                             |                                   |
|---------------------------------------------|-----------------------------------|
| RoHS Information                            | 9AKK106713A5597                   |
| RoHS Status                                 | Following EU Directive 2011/65/EU |
| RoHS Date                                   | 20150415                          |
| REACH Declaration                           | 9AKK108467A9482                   |
| Conflict Minerals Reporting Template (CMRT) | 9AKK108468A3363                   |

Environmental

|                           |                           |
|---------------------------|---------------------------|
| Ambient Temperature       | -25...55 °C               |
| Ambient Air Temperature   | Operation -25 ... 55 °C   |
| Degree of Protection      | IP2X                      |
| Pollution Degree          | 2                         |
| Environmental Information | refer to RoHS information |

Dimensions

|                                     |          |
|-------------------------------------|----------|
| Width in Number of Modular Spacings | 4        |
| Product Net Width                   | 0.071 m  |
| Product Net Height                  | 0.085 m  |
| Product Net Depth / Length          | 0.069 m  |
| Product Net Weight                  | 0.480 kg |
| Built-In Depth (t <sub>2</sub> )    | 69 mm    |

Ordering

|                              |             |
|------------------------------|-------------|
| Package Level 1 Units        | box 1 piece |
| Package Level 1 Gross Weight | 0.530 kg    |

Certificates and Declarations

|                                |                  |
|--------------------------------|------------------|
| CCC Certificate                | 2021980307001650 |
| Declaration of Conformity - CE | 9AKK106713A5597  |

Installation

|                          |                 |
|--------------------------|-----------------|
| Instructions and Manuals | 9AKK106713A8790 |
|--------------------------|-----------------|

Popular Downloads

|                                   |                 |
|-----------------------------------|-----------------|
| Data Sheet, Technical Information | 2CSC423030B0201 |
|-----------------------------------|-----------------|

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                                       |
| CN8                        | 85363010                                                   |
| eClass                     | V11.0 : 27142207                                           |
| Object Classification Code | F                                                          |

| Accessories     |                                                  |               |          |                 |
|-----------------|--------------------------------------------------|---------------|----------|-----------------|
| 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           |
| 2CSS200910R0005 | S2C-OVP1 Overvoltage Release                     | S2C-OVP1      | 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           |
| 2CSS200923R0001 | SN201-IH Interface module with auxiliary contact | SN201-IH      | 1        | piece           |
| 2CSS200924R0001 | SN201-S Signal Contact                           | SN201-S       | 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           |

Categories

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

