

PRODUCT-DETAILS

## S203-C100

### S203-C100 Miniature Circuit Breaker - 3P - C - 100 A



#### General Information

|                       |                                                            |
|-----------------------|------------------------------------------------------------|
| Extended Product Type | S203-C100                                                  |
| Product ID            | 2CDS253001R0824                                            |
| EAN                   | 4016779916288                                              |
| Catalog Description   | S203-C100 Miniature Circuit Breaker - 3P - C - 100 A       |
| Long Description      | S203-C100 Miniature Circuit Breaker C-Char., 6kA, 100A, 3P |

#### Technical

|                                                     |                                                              |
|-----------------------------------------------------|--------------------------------------------------------------|
| Standards                                           | IEC/EN 60898-1<br>IEC/EN 60947-2                             |
| Tripping Characteristic                             | C                                                            |
| Rated Operational Voltage                           | acc. to IEC 60898-1 400 V AC<br>acc. to IEC 60947-2 400 V AC |
| Operational Voltage                                 | Maximum (Incl. Tolerance) 440 V AC<br>Minimum 12 V AC        |
| Rated Insulation Voltage (U <sub>i</sub> )          | acc. to IEC/EN 60664-1 440 V                                 |
| Rated Impulse Withstand Voltage (U <sub>imp</sub> ) | 4 kV<br>at 2000 m 5 kV<br>at Sea Level 6.2 kV                |
| Dielectric Test Voltage                             | 50/60 Hz, 1 min: 2 kV                                        |
| Input Voltage Type                                  | AC                                                           |
| Rated Current (I <sub>n</sub> )                     | 100 A                                                        |
| Rated Short-Circuit Capacity (I <sub>cn</sub> )     | (AC) 6 kA<br>(DC) 6 kA<br>(230 V AC) 6 kA                    |

|                                                             |                                                                                                                                                                                        |
|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                             | (400 V AC) 6 kA                                                                                                                                                                        |
| Rated Ultimate Short-Circuit Breaking Capacity ( $I_{cu}$ ) | (230 V AC) 10 kA<br>(400 V AC) 6 kA                                                                                                                                                    |
| Rated Conditional Short-Circuit Current ( $I_{nc}$ )        | (230 V) 10 kA<br>(400 V) 20 kA                                                                                                                                                         |
| Rated Service Short-Circuit Breaking Capacity ( $I_{cs}$ )  | (400 V AC) 6 kA                                                                                                                                                                        |
| Rated Frequency (f)                                         | 50 / 60 Hz                                                                                                                                                                             |
| Power Loss                                                  | 29.4 W<br>at Rated Operating Conditions per Pole 9.8 W                                                                                                                                 |
| Power Supply Connection                                     | Arbitrary                                                                                                                                                                              |
| Contact Position Indication                                 | ON / OFF                                                                                                                                                                               |
| Energy Limiting Class                                       | 3                                                                                                                                                                                      |
| Electrical Endurance                                        | 10000 AC cycle<br>20000 cycle                                                                                                                                                          |
| Number of Poles                                             | 3                                                                                                                                                                                      |
| Number of Protected Poles                                   | 3                                                                                                                                                                                      |
| Overvoltage Category                                        | III                                                                                                                                                                                    |
| Tightening Torque                                           | 3 N·m                                                                                                                                                                                  |
| Actuator Type                                               | Toggle                                                                                                                                                                                 |
| Screw Terminal Type                                         | Failsafe Bi-directional Cylinder-lift Terminal                                                                                                                                         |
| Actuator Marking                                            | I / O                                                                                                                                                                                  |
| Actuator Material                                           | Insulation Group II, Black, Sealable                                                                                                                                                   |
| Housing Material                                            | Insulation Group I, RAL 7035                                                                                                                                                           |
| Mounting on DIN Rail                                        | TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715<br>TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715                                                                         |
| Mounting Position                                           | Any                                                                                                                                                                                    |
| Recommended Screw Driver                                    | Pozidriv 2                                                                                                                                                                             |
| Accessories Available                                       | Yes                                                                                                                                                                                    |
| Connecting Capacity                                         | Busbar 16 / 16 mm <sup>2</sup><br>Conductor 2.5 ... 50 mm <sup>2</sup><br>Flexible 4 ... 35 mm <sup>2</sup><br>Rigid 2.5 ... 50 mm <sup>2</sup><br>Stranded 2.5 ... 50 mm <sup>2</sup> |
| Installation Size                                           | acc. to DIN 43880 1                                                                                                                                                                    |
| Terminal Type                                               | Screw Terminals                                                                                                                                                                        |

## Environmental

|                                                |                                                           |
|------------------------------------------------|-----------------------------------------------------------|
| Ambient Air Temperature                        | Operation -25 ... +55 °C<br>Storage -40 ... +70 °C        |
| Reference Ambient Air Temperature              | 30 °C                                                     |
| Degree of Protection                           | IP20<br>Enclosure with Cover IP40                         |
| Pollution Degree                               | 3                                                         |
| Environmental Conditions                       | 28 cycles<br>with 55 °C / 90-96 %<br>and 25 °C / 95-100 % |
| Resistance to Vibrations acc. to IEC 60068-2-6 | 5g, 20 cycles at 5 ... 150 ... 5 Hz with load 0.8 In      |
| Resistance to Shock acc. to IEC 60068-2-27     | 25g / 2 shocks / 13 ms                                    |
| RoHS Status                                    | Following EU Directive 2011/65/EU                         |

## Dimensions

|                                     |         |
|-------------------------------------|---------|
| Width in Number of Modular Spacings | 3       |
| Product Net Width                   | 52.5 mm |
| Product Net Height                  | 88 mm   |
| Product Net Depth / Length          | 69 mm   |
| Product Net Weight                  | 0.42 kg |
| Built-In Depth (t <sub>2</sub> )    | 69 mm   |

## Container Information

|                                |                |
|--------------------------------|----------------|
| Package Level 1 Units          | carton 1 piece |
| Package Level 1 Width          | 92 mm          |
| Package Level 1 Height         | 80 mm          |
| Package Level 1 Depth / Length | 58 mm          |
| Package Level 1 Gross Weight   | 16 kg          |
| Package Level 1 EAN            | 4016779917728  |
| Package Level 2 Units          | crate 36 piece |
| Package Level 2 Width          | 275 mm         |
| Package Level 2 Height         | 210 mm         |
| Package Level 2 Depth / Length | 395 mm         |
| Package Level 2 Gross Weight   | 13.36 kg       |
| Package Level 2 EAN            | 4016779919166  |

## Ordering

|                        |              |
|------------------------|--------------|
| Minimum Order Quantity | 1 piece      |
| Customs Tariff Number  | 85362090     |
| E-Number (Finland)     | 3210642      |
| Country of Origin      | Germany (DE) |

## Certificates and Declarations (Document Number)

|                                |                 |
|--------------------------------|-----------------|
| Certification Agency           | EN<br>IEC       |
| Declaration of Conformity - CE | 2CDK400601D2703 |
| Instructions and Manuals       | 2CDS207104P0001 |
| RoHS Information               | 2CDK400601D2703 |

## Popular Downloads

|                                   |                 |
|-----------------------------------|-----------------|
| Data Sheet, Technical Information | 9AKK107680A3031 |
| Instructions and Manuals          | 2CDS207104P0001 |
| EPLAN Graphical Macro             | 9AKK106713A8196 |
| EPLAN Macro                       | 9AKK106713A8194 |

## Classifications

|                           |                                                                               |
|---------------------------|-------------------------------------------------------------------------------|
| ETIM 7                    | EC000042 - Miniature circuit breaker (MCB)                                    |
| ETIM 8                    | EC000042 - Miniature circuit breaker (MCB)                                    |
| EPLAN Catalog Tree        | Electrical engineering / Protection devices / General                         |
| EPLAN Function Definition | Circuit breaker / Triple circuit breaker / Triple circuit breaker 1_2_3_4_5_6 |
| WEEE Category             | 5. Small Equipment (No External Dimension More Than 50 cm)                    |
| WEEE B2C / B2B            | Business To Consumer                                                          |
| CN8                       | 8536 20 90                                                                    |
| UNSPSC                    | 39121614                                                                      |
| eClass                    | V11.0 : 27141901                                                              |

## Accessories

| Identifier      | Description                          | Type          | Quantity | Unit Of Measure |
|-----------------|--------------------------------------|---------------|----------|-----------------|
| 2CDS200922R0001 | S2C-S/H6R Signal / Auxiliary Contact | S2C-S/H6R     | 1        | piece           |
| 2CDS200912R0001 | S2C-H6R Auxiliary Contact            | S2C-H6R       | 1        | piece           |
| 2CDS200936R0001 | S2C-H11L Auxiliary Contact           | S2C-H11L      | 1        | piece           |
| 2CDS200936R0002 | S2C-H20L Auxiliary Contact           | S2C-H20L      | 1        | piece           |
| 2CDS200936R0003 | S2C-H02L Auxiliary Contact           | S2C-H02L      | 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           |
| 2CDS200909R0001 | S2C-A1 Shunt Trip                    | S2C-A1        | 1        | piece           |
| 2CDS200909R0002 | S2C-A2 Shunt Trip                    | S2C-A2        | 1        | piece           |
| 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           |
| GHS2001901R0003 | S2C-DH Mechanical Accessories        | S2C-DH        | 1        | piece           |
| 2CSS200998R0001 | S2C-BP Mechanical tripping device    | S2C-BP        | 1        | piece           |
| 2CCA880100R0001 | CMS-100PS Sensor                     | CMS-100PS     | 1        | piece           |
| 2CCA880101R0001 | CMS-101PS Sensor                     | CMS-101PS     | 1        | piece           |
| 2CCA880102R0001 | CMS-102PS Sensor                     | CMS-102PS     | 1        | piece           |

## Categories

Low Voltage Products and Systems → Modular DIN Rail Products → Miniature Circuit Breakers MCBs

