

## PRODUCT-DETAILS

# S203MT-B50NA

## Miniature Circuit Breaker - S200MT - 3+NP - B - 50 ampere



### General Information

|                       |                                                              |
|-----------------------|--------------------------------------------------------------|
| Extended Product Type | S203MT-B50NA                                                 |
| Product ID            | 2CDS273106R0505                                              |
| EAN                   | 4016779871907                                                |
| Catalog Description   | Miniature Circuit Breaker - S200MT - 3+NP - B - 50 ampere    |
| Long Description      | S203MT-B50NA MiniatureCircuitBreaker B-Char.,10kA,50A,3P,+NA |

### Technical

|                                            |                                                                                              |
|--------------------------------------------|----------------------------------------------------------------------------------------------|
| Standards                                  | IEC/EN 60898-1<br>IEC/EN 60947-2                                                             |
| Number of Poles                            | 3+N                                                                                          |
| Number of Protected Poles                  | 3                                                                                            |
| Tripping Characteristic                    | B                                                                                            |
| Rated Current (I <sub>n</sub> )            | 50 A                                                                                         |
| Rated Operational Voltage                  | acc. to IEC 60898-1 400 V AC<br>acc. to IEC 60947-2 400 V AC                                 |
| Power Loss                                 | 12 W<br>at Rated Operating Conditions per Pole 3 W                                           |
| Rated Insulation Voltage (U <sub>i</sub> ) | acc. to IEC/EN 60664-1 440 V                                                                 |
| Operational Voltage                        | Maximum (Incl. Tolerance) 440 V AC<br>Maximum 440 V AC<br>Minimum 12 V AC<br>Minimum 12 V DC |
| Rated Frequency (f)                        | 50 Hz                                                                                        |

|                                                             |                                                                                                                                                                                                          |
|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                             | 60 Hz                                                                                                                                                                                                    |
| Rated Short-Circuit Capacity ( $I_{cn}$ )                   | (400 V AC) 10 kA                                                                                                                                                                                         |
| Rated Ultimate Short-Circuit Breaking Capacity ( $I_{cu}$ ) | (400 V AC) 10 kA                                                                                                                                                                                         |
| Rated Service Short-Circuit Breaking Capacity ( $I_{cs}$ )  | (400 V AC) 7.5 kA                                                                                                                                                                                        |
| Energy Limiting Class                                       | 3                                                                                                                                                                                                        |
| Overvoltage Category                                        | III                                                                                                                                                                                                      |
| Pollution Degree                                            | 3                                                                                                                                                                                                        |
| Rated Impulse Withstand Voltage ( $U_{imp}$ )               | 4 kV<br>(6.2 kV @ sea level)<br>(5.0 kV @ 2000 m)                                                                                                                                                        |
| Dielectric Test Voltage                                     | 50/60 Hz, 1 min: 2 kV                                                                                                                                                                                    |
| Housing Material                                            | Insulation Group I, RAL 7035                                                                                                                                                                             |
| Actuator Material                                           | Insulation Group II, Black, Sealable                                                                                                                                                                     |
| Actuator Marking                                            | I / O                                                                                                                                                                                                    |
| Degree of Protection                                        | IP20                                                                                                                                                                                                     |
| Remarks                                                     | IP40 in enclosure with cover                                                                                                                                                                             |
| Electrical Endurance                                        | 10000 AC cycle<br>20000 cycle                                                                                                                                                                            |
| Terminal Type                                               | Screw Terminals                                                                                                                                                                                          |
| Screw Terminal Type                                         | Failsafe Bi-directional Cylinder-lift Terminal                                                                                                                                                           |
| Connecting Capacity                                         | Busbar 10 / 10 mm <sup>2</sup><br>Flexible with Ferrule 0.75 ... 16 mm <sup>2</sup><br>Flexible 0.75 ... 16 mm <sup>2</sup><br>Rigid 0.75 ... 25 mm <sup>2</sup><br>Stranded 0.75 ... 25 mm <sup>2</sup> |
| Tightening Torque                                           | 2.8 N·m                                                                                                                                                                                                  |
| Recommended Screw Driver                                    | Pozidriv 2                                                                                                                                                                                               |
| Mounting on DIN Rail                                        | TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715<br>TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715                                                                                           |
| Mounting Position                                           | Any                                                                                                                                                                                                      |
| Built-In Depth ( $t_2$ )                                    | 69 mm                                                                                                                                                                                                    |
| Installation Size                                           | acc. to DIN 43880 1                                                                                                                                                                                      |
| Position of Neutral Terminals                               | Right                                                                                                                                                                                                    |
| Power Supply Connection                                     | Arbitrary                                                                                                                                                                                                |

## Environmental

|                                                |                                                           |
|------------------------------------------------|-----------------------------------------------------------|
| Ambient Air Temperature                        | Operation -25 ... +55 °C<br>Storage -40 ... +70 °C        |
| Reference Ambient Air Temperature              | 30 °C                                                     |
| Resistance to Shock acc. to IEC 60068-2-27     | 30g / 3 shocks / 11 ms                                    |
| Resistance to Vibrations acc. to IEC 60068-2-6 | 5g, 20 cycles at 5 ... 150 ... 5 Hz with load 0.8 In      |
| Environmental Conditions                       | 28 cycles<br>with 55 °C / 90-96 %<br>and 25 °C / 95-100 % |
| RoHS Status                                    | Following EU Directive 2011/65/EU                         |

## Dimensions

|                   |       |
|-------------------|-------|
| Product Net Width | 70 mm |
|-------------------|-------|

|                            |        |
|----------------------------|--------|
| Product Net Depth / Length | 69 mm  |
| Product Net Height         | 88 mm  |
| Product Net Weight         | 0.5 kg |

## Container Information

|                                |                |
|--------------------------------|----------------|
| Package Level 1 Units          | carton 1 piece |
| Package Level 1 Width          | 92 mm          |
| Package Level 1 Depth / Length | 78 mm          |
| Package Level 1 Height         | 80 mm          |
| Package Level 1 Gross Weight   | 0.53 kg        |
| Package Level 1 EAN            | 4016779867047  |

## Ordering

|                        |          |
|------------------------|----------|
| Minimum Order Quantity | 1 piece  |
| Customs Tariff Number  | 85362010 |

## Certificates and Declarations (Document Number)

|                                |                 |
|--------------------------------|-----------------|
| Declaration of Conformity - CE | 2CDK400594D2704 |
| Environmental Information      | 9AKK107680A6947 |
| Instructions and Manuals       | 2CDS207104P0001 |
| RoHS Information               | 2cdk400594d2703 |

## Popular Downloads

|                                   |                 |
|-----------------------------------|-----------------|
| Data Sheet, Technical Information | 2CDC002053D0204 |
| Instructions and Manuals          | 2CDS207104P0001 |

## Classifications

|                            |                                            |
|----------------------------|--------------------------------------------|
| Object Classification Code | F                                          |
| ETIM 6                     | EC000042 - Miniature circuit breaker (MCB) |
| ETIM 7                     | EC000042 - Miniature circuit breaker (MCB) |
| ETIM 8                     | EC000042 - Miniature circuit breaker (MCB) |
| eClass                     | V11.0 : 27141901                           |
| UNSPSC                     | 39121614                                   |

## 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           |
| 2CSS201997R0013 | S2C-CM1 - Motor operating device       | S2C-CM1       | 1        | piece           |
| 2CSS203997R0013 | S2C-CM2/3 - Motor operating device     | S2C-CM2/3     | 1        | piece           |
| 2CSS204997R0013 | S2C-CM4 - Motor operating device       | S2C-CM4       | 1        | piece           |
| GHS2001901R0003 | S2C-DH - Mechanical Accessories        | S2C-DH        | 1        | piece           |
| 2CSS200998R0001 | S2C-BP - Mechanical tripping device    | S2C-BP        | 1        | piece           |
| 2CSS200999R0001 | S2C-EST - Plug-in base                 | S2C-EST       | 1        | piece           |
| 2CDS200918R0001 | S2C-NT - Hand Operated Neutral         | S2C-NT        | 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

