



PRODUCT-DETAILS

# S203MR-K50

## Miniature Circuit Breaker - S200MR - 3P - 50 A - K



| General Information   |                                                                    |
|-----------------------|--------------------------------------------------------------------|
| Extended Product Type | S203MR-K50                                                         |
| Product ID            | 2CDS273437R0577                                                    |
| EAN                   | 4016779959117                                                      |
| Catalog Description   | Miniature Circuit Breaker - S200MR - 3P - 50 A - K                 |
| Long Description      | S203MR-K50 MCB K-Char., 10kA, 50A, 3P, RTT UL 1077, Ring Cable Lug |

| Technical                                           |                                                                                           |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------|
| Tripping Characteristic                             | K                                                                                         |
| Rated Operational Voltage                           | acc. to IEC 60898-1 400 V AC<br>acc. to IEC 60898-1 400 V<br>acc. to IEC 60947-2 400 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                                             |
| Input Voltage Type                                  | AC                                                                                        |
| Rated Current (I <sub>n</sub> )                     | 50 A                                                                                      |

|                                                                   |                                                                                                                                                                                                                |
|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rated Short-Circuit Capacity                                      | (230 V AC) 10 kA<br>(400 V AC) 10 kA                                                                                                                                                                           |
| Rated Ultimate Short-Circuit Breaking Capacity (I <sub>cu</sub> ) | (230 V AC) 10 kA<br>(400 V AC) 15 kA<br>(400 V) 6 kA                                                                                                                                                           |
| Rated Conditional Short-Circuit Current (I <sub>nc</sub> )        | (230 V) 10 kA<br>(400 V) 10 kA                                                                                                                                                                                 |
| Rated Service Short-Circuit Breaking Capacity (I <sub>cs</sub> )  | (400 V AC) 7.5 kA                                                                                                                                                                                              |
| Rated Frequency (f)                                               | 50 / 60 Hz                                                                                                                                                                                                     |
| Power Loss                                                        | 5.4 W<br>at Rated Operating Conditions per Pole 1.8 W                                                                                                                                                          |
| Energy Limiting Class                                             | 3                                                                                                                                                                                                              |
| Number of Protected Poles                                         | 3                                                                                                                                                                                                              |
| Number of Poles                                                   | 3P                                                                                                                                                                                                             |
| Overvoltage Category                                              | III                                                                                                                                                                                                            |
| Accessories Available                                             | Yes                                                                                                                                                                                                            |
| Connecting Capacity                                               | Flexible with Ferrule 0.75 ... 25 mm <sup>2</sup><br>Flexible 0.75 ... 25 mm <sup>2</sup><br>Flexible 0.75 ... 25 mm <sup>2</sup><br>Rigid 0.75 ... 35 mm <sup>2</sup><br>Stranded 0.75 ... 35 mm <sup>2</sup> |
| Terminal Type                                                     | Double Clamp                                                                                                                                                                                                   |

|                                             |                                                                        |
|---------------------------------------------|------------------------------------------------------------------------|
| <b>Material Compliance</b>                  |                                                                        |
| RoHS Information                            | 2CDK400687D2702                                                        |
| RoHS Status                                 | Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 |
| RoHS Date                                   | 20200320                                                               |
| REACH Declaration                           | 9AKK107492A1906                                                        |
| REACH Information                           | True - contains substances > 0.1 mass percentage                       |
| REACH Date                                  | 20240821                                                               |
| Conflict Minerals Reporting Template (CMRT) | 9AKK108468A3363                                                        |
| SCIP                                        | 8d9cd5d2-d480-46d5-b2d3-6d389ce9351e Germany (DE)                      |

|                         |                          |
|-------------------------|--------------------------|
| <b>Environmental</b>    |                          |
| Ambient Air Temperature | Operation -25 ... +55 °C |
| Degree of Protection    | IP20                     |
| Pollution Degree        | 3                        |

|                                    |                         |
|------------------------------------|-------------------------|
| <b>Technical UL/CSA</b>            |                         |
| Interrupting Rating acc. to UL1077 | (480V / 277 V AC) 10 kA |

|                                     |         |
|-------------------------------------|---------|
| <b>Dimensions</b>                   |         |
| Width in Number of Modular Spacings | 3.0     |
| Product Net Width                   | 52.5 mm |

|                                  |         |
|----------------------------------|---------|
| Product Net Height               | 100 mm  |
| Product Net Depth / Length       | 71 mm   |
| Product Net Weight               | 0.42 kg |
| Built-In Depth (t <sub>2</sub> ) | 69 mm   |

Ordering

|                              |                |
|------------------------------|----------------|
| Package Level 1 Units        | carton 3 piece |
| Package Level 1 Gross Weight | 1.32 kg        |

Certificates and Declarations

|                                |                 |
|--------------------------------|-----------------|
| Declaration of Conformity - CE | 2CDK400687D2702 |
|--------------------------------|-----------------|

Installation

|                          |                 |
|--------------------------|-----------------|
| Instructions and Manuals | 2CDC002183D0201 |
|--------------------------|-----------------|

Popular Downloads

|                                   |                    |
|-----------------------------------|--------------------|
| Data Sheet, Technical Information | No document needed |
|-----------------------------------|--------------------|

External Classifications and Standards

|                                    |                                                            |
|------------------------------------|------------------------------------------------------------|
| ETIM 8                             | EC000042 - Miniature circuit breaker (MCB)                 |
| ETIM 9                             | EC000042 - Miniature circuit breaker (MCB)                 |
| WEEE Category                      | 5. Small Equipment (No External Dimension More Than 50 cm) |
| WEEE B2C / B2B                     | Business To Business                                       |
| CN8                                | 8536 20 10                                                 |
| UNSPSC                             | 39121603                                                   |
| eClass                             | V11.0 : 27141901                                           |
| IDEA Granular Category Code (IGCC) | 4899 >> Miniature circuit breaker (MCB) screw-in model     |
| Standards                          | CSA 22.2 No. 235<br>IEC/EN 60947-2<br>UL 1077              |
| Certification Agency               | CSA<br>EN<br>IEC<br>UL                                     |

Accessories

| Identifier      | Description                | Type          | Quantity | Unit Of Measure |
|-----------------|----------------------------|---------------|----------|-----------------|
| 2CDS200922R0001 | Signal / Auxiliary Contact | S2C-S/H6R     | 1        | piece           |
| 2CDS200912R0001 | Auxiliary Contact          | S2C-H6R       | 1        | piece           |
| 2CDS200946R0001 | Auxiliary Contact          | S2C-H6-11R    | 1        | piece           |
| 2CDS200946R0002 | Auxiliary Contact          | S2C-H6-20R    | 1        | piece           |
| 2CDS200946R0003 | Auxiliary Contact          | S2C-H6-02R    | 1        | piece           |
| 2CDS200909R0001 | Shunt Trip                 | S2C-A1        | 1        | piece           |
| 2CDS200909R0002 | Shunt Trip                 | S2C-A2        | 1        | piece           |
| 2CSS200911R0001 | Undervoltage Release       | S2C-UA 12 DC  | 1        | piece           |
| 2CSS200911R0002 | Undervoltage Release       | S2C-UA 24 AC  | 1        | piece           |
| 2CSS200911R0003 | Undervoltage Release       | S2C-UA 48 AC  | 1        | piece           |
| 2CSS200911R0004 | Undervoltage Release       | S2C-UA 110 AC | 1        | piece           |
| 2CSS200911R0005 | Undervoltage Release       | S2C-UA 230 AC | 1        | piece           |
| 2CSS200911R0006 | Undervoltage Release       | S2C-UA 400 AC | 1        | piece           |
| 2CSS200911R0007 | Undervoltage Release       | S2C-UA 24 DC  | 1        | piece           |
| 2CSS200911R0008 | Undervoltage Release       | S2C-UA 48 DC  | 1        | piece           |
| 2CSS200911R0009 | Undervoltage Release       | S2C-UA 110 DC | 1        | piece           |
| 2CSS200911R0010 | Undervoltage Release       | S2C-UA 230 DC | 1        | piece           |
| GHS2001901R0003 | Mechanical Accessories     | S2C-DH        | 1        | piece           |
| 2CSS200998R0001 | Mechanical tripping device | S2C-BP        | 1        | piece           |
| 2CCA880100R0001 | Sensor                     | CMS-100PS     | 1        | piece           |
| 2CCA880101R0001 | Sensor                     | CMS-101PS     | 1        | piece           |
| 2CCA880102R0001 | Sensor                     | CMS-102PS     | 1        | piece           |

Categories

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

