



PRODUCT-DETAILS

# SU203M-Z1

## SU203M-Z1 Miniature Circuit Breaker - 3P - Z - 1 A



| General Information   |                                                                 |
|-----------------------|-----------------------------------------------------------------|
| Extended Product Type | SU203M-Z1                                                       |
| Product ID            | 2CDS273337R0218                                                 |
| EAN                   | 4016779933315                                                   |
| Catalog Description   | SU203M-Z1 Miniature Circuit Breaker - 3P - Z - 1 A              |
| Long Description      | SU203M-Z1 Miniature Circuit Breaker Z-Char., 10kA, 1A, 3P UL489 |

| Technical                                           |                                                                                           |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------|
| Standards                                           | CSA 22.2 No. 5<br>IEC/EN 60947-2<br>UL 489                                                |
| Tripping Characteristic                             | Z                                                                                         |
| 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                                                                    |

|                                                                   |                                                                                                                                                                                                                                                  |
|-------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| )                                                                 | at Sea Level 6.2 kV                                                                                                                                                                                                                              |
| Dielectric Test Voltage                                           | 50/60 Hz, 1 min: 2 kV                                                                                                                                                                                                                            |
| Input Voltage Type                                                | AC/DC                                                                                                                                                                                                                                            |
| Rated Current (I <sub>n</sub> )                                   | 1 A                                                                                                                                                                                                                                              |
| Rated Short-Circuit Capacity                                      | (400 V AC) 11.2 kA                                                                                                                                                                                                                               |
| Rated Ultimate Short-Circuit Breaking Capacity (I <sub>cu</sub> ) | (400 V AC) 15 kA<br>(400 V) 15 kA                                                                                                                                                                                                                |
| Rated Conditional Short-Circuit Current (I <sub>nc</sub> )        | (400 V) 15 kA                                                                                                                                                                                                                                    |
| Rated Service Short-Circuit Breaking Capacity (I <sub>cs</sub> )  | (400 V AC) 11.2 kA                                                                                                                                                                                                                               |
| Rated Frequency (f)                                               | 50 / 60 Hz<br>DC                                                                                                                                                                                                                                 |
| Power Loss                                                        | 7.2 W<br>at Rated Operating Conditions per Pole 2.4 W                                                                                                                                                                                            |
| Power Supply Connection                                           | Arbitrary                                                                                                                                                                                                                                        |
| Contact Position Indication                                       | Red ON / Green OFF                                                                                                                                                                                                                               |
| Energy Limiting Class                                             | 3                                                                                                                                                                                                                                                |
| Electrical Endurance                                              | 20000 AC cycle                                                                                                                                                                                                                                   |
| Mechanical Endurance                                              | 20000 cycle                                                                                                                                                                                                                                      |
| Number of Protected Poles                                         | 3                                                                                                                                                                                                                                                |
| Number of Poles                                                   | 3                                                                                                                                                                                                                                                |
| Overvoltage Category                                              | III                                                                                                                                                                                                                                              |
| Tightening Torque                                                 | 2.8 N·m                                                                                                                                                                                                                                          |
| 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 10 / 10 mm <sup>2</sup><br>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> |
| Installation Size                                                 | acc. to DIN 43880 3                                                                                                                                                                                                                              |
| Terminal Type                                                     | Double Clamp                                                                                                                                                                                                                                     |

**Material Compliance**

|                                      |                                                                        |
|--------------------------------------|------------------------------------------------------------------------|
| RoHS Information                     | 2CDK400595D2705                                                        |
| RoHS Status                          | Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 |
| RoHS Date                            | 20200514                                                               |
| REACH Declaration                    | 9AKK108468A9644                                                        |
| REACH Information                    | True - contains substances > 0.1 mass percentage                       |
| Conflict Minerals Reporting Template | 9AKK108468A3363                                                        |

(CMRT)

SCIP89318623-ff2d-4ce0-aefe-5d16fac11138 Germany (DE)

Environmental

|                                            |                                                           |
|--------------------------------------------|-----------------------------------------------------------|
| Ambient Air Temperature                    | Operation -25 ... +55 °C<br>Storage -40 ... +70 °C        |
| Reference Ambient Air Temperature          | 30 °C                                                     |
| Degree of Protection                       | IP20<br>IP40<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                   | 20 Cycles with Load 0.8 In: 5g 5 ... 150 ... 5 Hz         |
| Resistance to Shock acc. to IEC 60068-2-27 | 25g 2 shocks 13 ms                                        |
| Environmental Information                  | 9AKK107680A9140                                           |

Technical UL/CSA

|                                   |                                             |
|-----------------------------------|---------------------------------------------|
| Maximum Operating Voltage UL/CSA  | 480Y / 277 V AC                             |
| Interrupting Rating acc. to UL489 | (240 V AC) 10 kA<br>(480Y / 277 V AC) 10 kA |
| Connecting Capacity UL/CSA        | Busbar 18-8 AWG<br>Conductor 18-4 AWG       |

Dimensions

|                                     |          |
|-------------------------------------|----------|
| Width in Number of Modular Spacings | 3        |
| Product Net Width                   | 52.5 mm  |
| Product Net Height                  | 111 mm   |
| Product Net Depth / Length          | 69 mm    |
| Product Net Weight                  | 0.375 kg |
| Pole Net Weight                     | 0.125 kg |
| Built-In Depth (t <sub>2</sub> )    | 69 mm    |

Ordering

|                              |                |
|------------------------------|----------------|
| Package Level 1 Units        | carton 1 piece |
| Package Level 1 Gross Weight | 0.4 kg         |

Certificates and Declarations

|                      |                        |
|----------------------|------------------------|
| Certification Agency | CSA<br>EN<br>IEC<br>UL |
| Declaration of       | 2CDK400595D2705        |

|                   |                 |
|-------------------|-----------------|
| Conformity - CE   |                 |
| Declaration of    | 9AKK108467A5201 |
| Conformity - UKCA |                 |

Installation

|                             |                 |
|-----------------------------|-----------------|
| Instructions and<br>Manuals | 2CDC002177D0202 |
|-----------------------------|-----------------|

Popular Downloads

|                                      |                 |
|--------------------------------------|-----------------|
| Data Sheet, Technical<br>Information | 2CDC002177D0202 |
|--------------------------------------|-----------------|

Classifications

|                                       |                                                            |
|---------------------------------------|------------------------------------------------------------|
| 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<br>Code (IGCC) | 4899 >> Miniature circuit breaker (MCB) screw-in model     |

Accessories

| Identifier      | Description                         | Type      | Quantity | Unit Of<br>Measure |
|-----------------|-------------------------------------|-----------|----------|--------------------|
| 2CCA880100R0001 | CMS-100PS Sensor                    | CMS-100PS | 1        | piece              |
| 2CCA880101R0001 | CMS-101PS Sensor                    | CMS-101PS | 1        | piece              |
| 2CCA880102R0001 | CMS-102PS Sensor                    | CMS-102PS | 1        | piece              |
| 2CDS200914R0001 | S2C-H6RU Auxiliary Contact          | S2C-H6RU  | 1        | piece              |
| 2CDS200924R0001 | S2C-S6RU Signal / Auxiliary Contact | S2C-S6RU  | 1        | piece              |
| 2CDS200908R0001 | S2C-A1U Shunt Trip                  | S2C-A1U   | 1        | piece              |
| 2CDS200908R0002 | S2C-A2U Shunt Trip                  | S2C-A2U   | 1        | piece              |

Categories

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

