

PRODUCT-DETAILS

# SU203M-Z20

## SU203M-Z20 Miniature Circuit Breaker - 3P - Z - 20 A



### General Information

|                       |                                                                   |
|-----------------------|-------------------------------------------------------------------|
| Extended Product Type | SU203M-Z20                                                        |
| Product ID            | 2CDS273337R0488                                                   |
| EAN                   | 4016779933445                                                     |
| Catalog Description   | SU203M-Z20 Miniature Circuit Breaker - 3P - Z - 20 A              |
| Long Description      | SU203M-Z20 Miniature Circuit Breaker Z-Char., 10kA, 20A, 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 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                |
| Dielectric Test Voltage                             | 50/60 Hz, 1 min: 2 kV                                        |
| Input Voltage Type                                  | AC                                                           |
| Rated Current (I <sub>n</sub> )                     | 20 A                                                         |
| Rated Short-Circuit Capacity (I <sub>cn</sub> )     | (400 V AC) 11.2 kA                                           |
| Rated Ultimate Short-Circuit Breaking               | (400 V AC) 15 kA                                             |

|                                                                  |                                                                                                                                                                                                          |
|------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Capacity (I <sub>cu</sub> )                                      |                                                                                                                                                                                                          |
| 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                                                       | 7.5 W<br>at Rated Operating Conditions per Pole 2.5 W                                                                                                                                                    |
| Power Supply Connection                                          | Arbitrary                                                                                                                                                                                                |
| Contact Position Indication                                      | Red ON / Green OFF                                                                                                                                                                                       |
| Energy Limiting Class                                            | 3                                                                                                                                                                                                        |
| Electrical Endurance                                             | 20000 AC cycle<br>20000 cycle                                                                                                                                                                            |
| Number of Poles                                                  | 3                                                                                                                                                                                                        |
| Number of Protected 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>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                                                                                                                                                                                             |

## 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                         |
| 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    |

## Container Information

|                                |                |
|--------------------------------|----------------|
| Package Level 1 Units          | carton 1 piece |
| Package Level 1 Width          | 57 mm          |
| Package Level 1 Height         | 83 mm          |
| Package Level 1 Depth / Length | 120 mm         |
| Package Level 1 Gross Weight   | 0.4 kg         |
| Package Level 1 EAN            | 4016779933445  |
| Package Level 2 Units          | crate 27 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   | 16 kg          |
| Package Level 2 EAN            | 4016779940320  |

## Ordering

|                        |              |
|------------------------|--------------|
| Minimum Order Quantity | 1 piece      |
| Customs Tariff Number  | 85362010     |
| Country of Origin      | Germany (DE) |

## Certificates and Declarations (Document Number)

|                                |                        |
|--------------------------------|------------------------|
| Certification Agency           | CSA<br>EN<br>IEC<br>UL |
| Declaration of Conformity - CE | 2CDK400595D2705        |
| Environmental Information      | 9AKK107680A9140        |
| Instructions and Manuals       | 2CDC002177D0202        |
| RoHS Information               | 2CDK400595D2705        |

| Popular Downloads                 |                 |
|-----------------------------------|-----------------|
| Data Sheet, Technical Information | 2CDC002177D0202 |
| Instructions and Manuals          | 2CDC002177D0202 |

| 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 10                                                                    |
| UNSPSC                    | 39121614                                                                      |
| eClass                    | V11.0 : 27141901                                                              |

| Accessories     |                                     |           |          |                 |
|-----------------|-------------------------------------|-----------|----------|-----------------|
| Identifier      | Description                         | Type      | Quantity | Unit Of 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 |

