



PRODUCT-DETAILS

SU202M-Z20

Miniature Circuit Breaker - SU200M - 2P - 20 A  
- Z - (400 V AC) 11.2 kA



| General Information   |                                                                              |
|-----------------------|------------------------------------------------------------------------------|
| Extended Product Type | SU202M-Z20                                                                   |
| Product ID            | 2CDS272337R0488                                                              |
| EAN                   | 4016779933216                                                                |
| Catalog Description   | Miniature Circuit Breaker - SU200M - 2P - 20 A - Z - (400 V AC) 11.2 kA      |
| Long Description      | SU202M-Z20 Miniature Circuit Breaker Z-Char., UL10kA, IEC15kA, 20A, 2P UL489 |

| ABB EcoSolutions                                  |                                                             |
|---------------------------------------------------|-------------------------------------------------------------|
| ABB EcoSolutions                                  | Yes                                                         |
| Recyclability Rate of the Product acc. to EN45555 | Design for Closing Resource Loops - Standard EN45555 - 62 % |
| ABB Site Meeting Group Waste To Landfill Target   | No non-hazardous waste is sent to a landfill                |
| Extended Product Lifetime                         | Product Durability                                          |
| End Of Life Disassembling Instructions            | 9AKK108471A4773                                             |
| Environmental Product                             | 9AKK108470A9950                                             |

## Declaration - EPD

**Technical**

|                                                             |                                                                                                                                                                                                                                                |
|-------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dielectric Test Voltage                                     | 50 / 60 Hz - 1 min 2 kV                                                                                                                                                                                                                        |
| Rated Ultimate Short-Circuit Breaking Capacity ( $I_{cu}$ ) | (400 V AC) 15 kA<br>(400 V) 15 kA                                                                                                                                                                                                              |
| Rated Service Short-Circuit Breaking Capacity ( $I_{cs}$ )  | (400 V AC) 11.2 kA                                                                                                                                                                                                                             |
| 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                                   | 2                                                                                                                                                                                                                                              |
| Number of Poles                                             | 2P                                                                                                                                                                                                                                             |
| Tightening Torque                                           | 2.8 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                                                                                                                                                                                                           |
| 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                                                                                                                                                                                                                                   |

**Electrical**

|                                                      |                                                              |
|------------------------------------------------------|--------------------------------------------------------------|
| Tripping Characteristic                              | Z                                                            |
| Rated Operational Voltage                            | acc. to IEC 60898-1 440 V AC<br>acc. to IEC 60947-2 400 V AC |
| Rated Insulation Voltage ( $U_i$ )                   | acc. to IEC/EN 60664-1 440 V                                 |
| Rated Impulse Withstand Voltage ( $U_{imp}$ )        | 4 kV<br>at 2000 m 5 kV<br>at Sea Level 6.2 kV                |
| Input Voltage Type                                   | AC/DC                                                        |
| Rated Current ( $I_n$ )                              | 20 A                                                         |
| Rated Short-Circuit Capacity                         | (400 V AC) 11.2 kA                                           |
| Rated Conditional Short-Circuit Current ( $I_{nc}$ ) | (400 V) 15 kA                                                |
| Rated Frequency (f)                                  | 50 / 60 Hz<br>DC                                             |
| Power Loss                                           | at Rated Operating Conditions per Pole 2.5 W                 |
| Overvoltage Category                                 | III                                                          |

## Design

|                  |                              |
|------------------|------------------------------|
| Housing Material | Insulation Group I, RAL 7035 |
|------------------|------------------------------|

## Technical UL/CSA

|                                   |                                                                |
|-----------------------------------|----------------------------------------------------------------|
| Maximum Operating Voltage UL/CSA  | 480Y / 277 V AC<br>96 V DC                                     |
| Interrupting Rating acc. to UL489 | (240 V AC) 10 kA<br>(480Y / 277 V AC) 10 kA<br>(96 V DC) 10 kA |
| Connecting Capacity UL/CSA        | Busbar 18-8 AWG<br>Conductor 18-4 AWG                          |

## Material Compliance

|                                             |                                                                        |
|---------------------------------------------|------------------------------------------------------------------------|
| RoHS Declaration                            | 9AKK108472A0372                                                        |
| RoHS Information                            | Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 |
| RoHS Date                                   | 20251203                                                               |
| REACH Declaration                           | 9AKK107492A1906                                                        |
| REACH Information                           | False - does not contain substances > 0.1 mass percentage              |
| REACH Date                                  | 20251029                                                               |
| Conflict Minerals Reporting Template (CMRT) | 9AKK108468A3363                                                        |
| Toxic Substances Control Act - TSCA         | 9AKK108468A8104                                                        |
| SCIP                                        | 89318623-ff2d-4ce0-aefe-5d16fac11138 Germany                           |
| WEEE Category                               | 5. Small Equipment (No External Dimension More Than 50 cm)             |
| WEEE B2C / B2B                              | Business To Business                                                   |

## 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                                           |

## Dimensions

|                                     |   |
|-------------------------------------|---|
| Width in Number of Modular Spacings | 2 |
|-------------------------------------|---|

|                                  |          |
|----------------------------------|----------|
| Product Net Width                | 35 mm    |
| Product Net Height               | 111 mm   |
| Product Net Depth / Length       | 69 mm    |
| Product Net Weight               | 0.25 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 | 0.29 kg        |

### Certificates and Declarations

|                                  |                 |
|----------------------------------|-----------------|
| Declaration of Conformity - CE   | 2CDK400595D2705 |
| Declaration of Conformity - UKCA | 9AKK108467A5201 |

### Installation

|                          |                                                                                                                |
|--------------------------|----------------------------------------------------------------------------------------------------------------|
| Instructions and Manuals | 2CDC002177D0202                                                                                                |
| 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                                                                                                            |

### Popular Downloads

|                                   |                 |
|-----------------------------------|-----------------|
| Data Sheet, Technical Information | 2CDC002177D0204 |
|-----------------------------------|-----------------|

### External Classifications and Standards

|                                    |                                                        |
|------------------------------------|--------------------------------------------------------|
| ETIM 9                             | EC000042 - Miniature circuit breaker (MCB)             |
| ETIM 10                            | EC000042 - Miniature circuit breaker (MCB)             |
| UNSPSC                             | 39121603                                               |
| eClass                             | V11.0 : 27141901                                       |
| IDEA Granular Category Code (IGCC) | 4899 >> Miniature circuit breaker (MCB) screw-in model |
| Standards                          | CSA 22.2 No. 5<br>IEC/EN 60947-2<br>UL 489             |
| Certification Agency               | CSA<br>EN<br>IEC<br>UL                                 |
| Standardization Body               | CSA<br>EN<br>IEC<br>UL                                 |

| 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 1CO, UL489 | S2C-H6RU  | 1        | piece           |
| 2CDS200924R0001 | S2C-S6RU Signal Contact UL489         | S2C-S6RU  | 1        | piece           |
| 2CDS200908R0001 | S2C-A1U Shunt Trip, 12...110V, UL489  | S2C-A1U   | 1        | piece           |
| 2CDS200908R0002 | S2C-A2U Shunt Trip, 110...415V, UL489 | S2C-A2U   | 1        | piece           |

Categories

Low Voltage Products and Systems → Modular DIN Rail Products → Miniature Circuit Breakers MCBs → Miniature Circuit Breakers MCBs → SU200M



360°

