



PRODUCT-DETAILS

# SU202M-Z13

## SU202M-Z13 Miniature Circuit Breaker - 2P - Z - 13 A



| General Information   |                                                                   |
|-----------------------|-------------------------------------------------------------------|
| Extended Product Type | SU202M-Z13                                                        |
| Product ID            | 2CDS272337R0448                                                   |
| EAN                   | 4016779933186                                                     |
| Catalog Description   | SU202M-Z13 Miniature Circuit Breaker - 2P - Z - 13 A              |
| Long Description      | SU202M-Z13 Miniature Circuit Breaker Z-Char., 10kA, 13A, 2P 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 60898-1 440 V AC<br>acc. to IEC 60898-1 440 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                                             |
| Dielectric Test Voltage                             | 50/60 Hz, 1 min: 2 kV                                                                     |

|                                                             |                                                                                                                                                                          |
|-------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Input Voltage Type                                          | AC/DC                                                                                                                                                                    |
| Rated Current ( $I_n$ )                                     | 13 A                                                                                                                                                                     |
| Rated Short-Circuit Capacity                                | (400 V AC) 11.2 kA                                                                                                                                                       |
| Rated Ultimate Short-Circuit Breaking Capacity ( $I_{cu}$ ) | (400 V AC) 15 kA<br>(400 V) 15 kA                                                                                                                                        |
| Rated Conditional Short-Circuit Current ( $I_{nc}$ )        | (400 V) 15 kA                                                                                                                                                            |
| Rated Service Short-Circuit Breaking Capacity ( $I_{cs}$ )  | (400 V AC) 11.2 kA                                                                                                                                                       |
| Rated Frequency (f)                                         | 50 / 60 Hz<br>DC                                                                                                                                                         |
| Power Loss                                                  | 3.6 W<br>at Rated Operating Conditions per Pole 1.8 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                                   | 2                                                                                                                                                                        |
| Number of Poles                                             | 2                                                                                                                                                                        |
| 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 mm²<br>Flexible with Ferrule 0.75 ... 25 mm²<br>Flexible 0.75 ... 25 mm²<br>Flexible 0.75 ... 25 mm²<br>Rigid 0.75 ... 35 mm²<br>Stranded 0.75 ... 35 mm² |
| 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 (CMRT) | 9AKK108468A3363                                                        |

Environmental

|                         |                                                    |
|-------------------------|----------------------------------------------------|
| Ambient Air Temperature | Operation -25 ... +55 °C<br>Storage -40 ... +70 °C |
| Reference Ambient Air   | 30 °C                                              |

|                                               |                                                           |
|-----------------------------------------------|-----------------------------------------------------------|
| Temperature                                   |                                                           |
| 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.<br>to IEC 60068-2-27 | 25g 2 shocks 13 ms                                        |
| Environmental Information                     | 9AKK107680A9140                                           |

### Technical UL/CSA

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

### Dimensions

|                                        |          |
|----------------------------------------|----------|
| Width in Number of<br>Modular Spacings | 2        |
| Product Net Width                      | 35 mm    |
| Product Net Height                     | 111 mm   |
| Product Net Depth /<br>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<br>Weight | 0.27 kg        |

### Certificates and Declarations

|                                     |                        |
|-------------------------------------|------------------------|
| Certification Agency                | CSA<br>EN<br>IEC<br>UL |
| Declaration of Conformity<br>- CE   | 2CDK400595D2705        |
| Declaration of Conformity<br>- UKCA | 9AKK108467A5201        |

### Installation

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

### Popular Downloads

|                       |                 |
|-----------------------|-----------------|
| Data Sheet, Technical | 2CDC002177D0202 |
|-----------------------|-----------------|

Information

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

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 → Miniature Circuit Breakers MCBs

