



PRODUCT-DETAILS

# SU204M-K50

## Miniature Circuit Breaker - SU200M - 4P - 50 A - K



| General Information   |                                                                   |
|-----------------------|-------------------------------------------------------------------|
| Extended Product Type | SU204M-K50                                                        |
| Product ID            | 2CDS274337R0577                                                   |
| EAN                   | 4016779930710                                                     |
| Catalog Description   | Miniature Circuit Breaker - SU200M - 4P - 50 A - K                |
| Long Description      | SU204M-K50 Miniature Circuit Breaker K-Char., 10kA, 50A, 4P UL489 |

| Technical                                           |                                                           |
|-----------------------------------------------------|-----------------------------------------------------------|
| Tripping Characteristic                             | K                                                         |
| Rated Operational Voltage                           | acc. to IEC 60898-1 240 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 <sub>n</sub> )                     | 50 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) 7.5 kA                                                                                                                                                                                                                                |
| Rated Frequency (f)                                         | 50 / 60 Hz<br>DC                                                                                                                                                                                                                                 |
| Power Loss                                                  | 18 W<br>at Rated Operating Conditions per Pole 4.5 W                                                                                                                                                                                             |
| Power Supply Connection                                     | Arbitrary                                                                                                                                                                                                                                        |
| Contact Position Indication                                 | Red ON / Green OFF                                                                                                                                                                                                                               |
| Energy Limiting Class                                       | 3                                                                                                                                                                                                                                                |
| Electrical Endurance                                        | 10000 AC cycle                                                                                                                                                                                                                                   |
| Mechanical Endurance                                        | 20000 cycle                                                                                                                                                                                                                                      |
| Number of Protected Poles                                   | 4                                                                                                                                                                                                                                                |
| Number of Poles                                             | 4P                                                                                                                                                                                                                                               |
| 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                           | 9AKK107492A1906                                                        |
| REACH Information                           | True - contains substances > 0.1 mass percentage                       |
| REACH Date                                  | 20240821                                                               |
| Conflict Minerals Reporting Template (CMRT) | 9AKK108468A3363                                                        |
| SCIP                                        | 89318623-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  | 240 V AC                              |
| Interrupting Rating acc. to UL489 | (240 V AC) 10 kA                      |
| Connecting Capacity UL/CSA        | Busbar 18-8 AWG<br>Conductor 18-4 AWG |

| Dimensions                          |          |
|-------------------------------------|----------|
| Width in Number of Modular Spacings | 4.0      |
| Product Net Width                   | 70 mm    |
| Product Net Height                  | 111 mm   |
| Product Net Depth / Length          | 69 mm    |
| Product Net Weight                  | 0.5 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 | 0.54 kg        |

| Certificates and Declarations    |                 |
|----------------------------------|-----------------|
| Declaration of Conformity - CE   | 2CDK400595D2705 |
| Declaration of Conformity - UKCA | 9AKK108467A5201 |

| Installation |  |
|--------------|--|
|--------------|--|

Instructions and  
Manuals

2CDC002177D0202

Popular Downloads

Data Sheet, Technical  
Information

2CDC002177D0202

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<br>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                                     |

Accessories

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

Categories

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

