

PRODUCT-DETAILS

# SU203M-K20

## Miniature Circuit Breaker - SU200M - 3P - K - 20 ampere



### General Information

|                       |                                                                   |
|-----------------------|-------------------------------------------------------------------|
| Extended Product Type | SU203M-K20                                                        |
| Product ID            | 2CDS273337R0487                                                   |
| EAN                   | 4016779930390                                                     |
| Catalog Description   | Miniature Circuit Breaker - SU200M - 3P - K - 20 ampere           |
| Long Description      | SU203M-K20 Miniature Circuit Breaker K-Char., 10kA, 20A, 3P UL489 |

### Technical

|                                    |                                                       |
|------------------------------------|-------------------------------------------------------|
| Standards                          | CSA 22.2 No. 5<br>IEC/EN 60947-2<br>UL 489            |
| Number of Poles                    | 3                                                     |
| Number of Protected Poles          | 3                                                     |
| Tripping Characteristic            | K                                                     |
| Rated Current ( $I_n$ )            | 20 A                                                  |
| Rated Operational Voltage          | acc. to IEC 60947-2 400 V AC                          |
| Power Loss                         | 7.5 W<br>at Rated Operating Conditions per Pole 2.5 W |
| Rated Insulation Voltage ( $U_i$ ) | acc. to IEC/EN 60664-1 440 V                          |
| Rated Frequency (f)                | DC<br>50 Hz<br>60 Hz                                  |
| Rated Ultimate Short-              | (400 V AC) 15 kA                                      |

|                                                                  |                                                                                                                                                                                                          |
|------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Circuit Breaking Capacity (I <sub>cu</sub> )                     |                                                                                                                                                                                                          |
| Rated Service Short-Circuit Breaking Capacity (I <sub>cs</sub> ) | (400 V AC) 11.2 kA                                                                                                                                                                                       |
| Overvoltage Category                                             | III                                                                                                                                                                                                      |
| Pollution Degree                                                 | 3                                                                                                                                                                                                        |
| Rated Impulse Withstand Voltage (U <sub>imp</sub> )              | 4 kV<br>(6.2 kV @ sea level)<br>(5.0 kV @ 2000 m)                                                                                                                                                        |
| Dielectric Test Voltage                                          | 50/60 Hz, 1 min: 2 kV                                                                                                                                                                                    |
| Housing Material                                                 | Insulation Group I, RAL 7035                                                                                                                                                                             |
| Actuator Material                                                | Insulation Group II, Black, Sealable                                                                                                                                                                     |
| Actuator Marking                                                 | I / O                                                                                                                                                                                                    |
| Contact Position Indication                                      | Red ON / Green OFF                                                                                                                                                                                       |
| Degree of Protection                                             | IP20                                                                                                                                                                                                     |
| Remarks                                                          | IP40 in enclosure with cover                                                                                                                                                                             |
| Electrical Endurance                                             | 20000 AC cycle<br>20000 cycle                                                                                                                                                                            |
| Terminal Type                                                    | Double Clamp                                                                                                                                                                                             |
| Screw Terminal Type                                              | Failsafe Bi-directional Cylinder-lift Terminal                                                                                                                                                           |
| 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> |
| Tightening Torque                                                | 2.8 N·m                                                                                                                                                                                                  |
| Recommended Screw Driver                                         | Pozidriv 2                                                                                                                                                                                               |
| Mounting on DIN Rail                                             | TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715<br>TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715                                                                                           |
| Mounting Position                                                | Any                                                                                                                                                                                                      |
| Built-In Depth (t <sub>2</sub> )                                 | 69 mm                                                                                                                                                                                                    |
| Installation Size                                                | acc. to DIN 43880 3                                                                                                                                                                                      |
| Power Supply Connection                                          | Arbitrary                                                                                                                                                                                                |

## Environmental

|                                                |                                                           |
|------------------------------------------------|-----------------------------------------------------------|
| Ambient Air Temperature                        | Operation -25 ... +55 °C<br>Storage -40 ... +70 °C        |
| Reference Ambient Air Temperature              | 30 °C                                                     |
| Resistance to Shock acc. to IEC 60068-2-27     | 25g / 2 shocks / 13 ms                                    |
| Resistance to Vibrations acc. to IEC 60068-2-6 | 5g, 20 cycles at 5 ... 150 ... 5 Hz with load 0.8 In      |
| Environmental Conditions                       | 28 cycles<br>with 55 °C / 90-96 %<br>and 25 °C / 95-100 % |
| RoHS Status                                    | Following EU Directive 2011/65/EU                         |

## Technical UL/CSA

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

## Dimensions

|                            |          |
|----------------------------|----------|
| Product Net Width          | 52.5 mm  |
| Product Net Depth / Length | 69 mm    |
| Product Net Height         | 111 mm   |
| Product Net Weight         | 0.375 kg |

## Container Information

|                                |                |
|--------------------------------|----------------|
| Package Level 1 Units          | carton 1 piece |
| Package Level 1 Width          | 57 mm          |
| Package Level 1 Depth / Length | 120 mm         |
| Package Level 1 Height         | 83 mm          |
| Package Level 1 Gross Weight   | 0.4 kg         |
| Package Level 1 EAN            | 4016779930390  |
| Package Level 2 Units          | crate 27 piece |
| Package Level 2 Width          | 275 mm         |
| Package Level 2 Depth / Length | 395 mm         |
| Package Level 2 Height         | 210 mm         |
| Package Level 2 Gross Weight   | 16 kg          |
| Package Level 2 EAN            | 4016779940092  |

## Ordering

|                        |          |
|------------------------|----------|
| Minimum Order Quantity | 1 piece  |
| Customs Tariff Number  | 85362010 |

## Certificates and Declarations (Document Number)

|                                |                 |
|--------------------------------|-----------------|
| 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 6 | EC000042 - Miniature circuit breaker (MCB) |
| ETIM 7 | EC000042 - Miniature circuit breaker (MCB) |
| ETIM 8 | EC000042 - Miniature circuit breaker (MCB) |
| eClass | V11.0 : 27141901                           |
| UNSPSC | 39121614                                   |

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## Categories

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

