

PRODUCT-DETAILS

# S203MT-K20UC

## Miniature Circuit Breaker - S200MTUC - 3P - K - 20 ampere



### General Information

|                       |                                                           |
|-----------------------|-----------------------------------------------------------|
| Extended Product Type | S203MT-K20UC                                              |
| Product ID            | 2CDS273065R0487                                           |
| EAN                   | 4013614448027                                             |
| Catalog Description   | Miniature Circuit Breaker - S200MTUC - 3P - K - 20 ampere |
| Long Description      | S203MT-K20UC MCB K-Char., 10kA, 20A, 3P                   |

### Technical

|                                    |                                                                                                                              |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Standards                          | CSA 22.2 No. 235<br>IEC/EN 60947-2<br>UL 1077                                                                                |
| Number of Poles                    | 3                                                                                                                            |
| Number of Protected Poles          | 3                                                                                                                            |
| Tripping Characteristic            | K                                                                                                                            |
| Rated Current ( $I_n$ )            | 20 A                                                                                                                         |
| Rated Operational Voltage          | acc. to IEC 60898-1 440 V AC<br>acc. to IEC 60898-1 440 V DC<br>acc. to IEC 60947-2 440 V AC<br>acc. to IEC 60947-2 440 V DC |
| Power Loss                         | 9.21 W<br>at Rated Operating Conditions per Pole 3.07 W                                                                      |
| Rated Insulation Voltage ( $U_i$ ) | acc. to IEC/EN 60664-1 484 V                                                                                                 |
| Operational Voltage                | Maximum (Incl. Tolerance) 462 V AC<br>Maximum (Incl. Tolerance) 500 V DC                                                     |

|                                                             |                                                                                                                                                                                                          |
|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                             | Maximum 462 V AC<br>Maximum 500 V DC<br>Minimum 12 V AC<br>Minimum 12 V DC                                                                                                                               |
| Rated Frequency (f)                                         | DC<br>50 Hz<br>60 Hz                                                                                                                                                                                     |
| Rated Ultimate Short-Circuit Breaking Capacity ( $I_{cu}$ ) | (440 V AC) 10 kA<br>(440 V DC) 10 kA                                                                                                                                                                     |
| Rated Service Short-Circuit Breaking Capacity ( $I_{cs}$ )  | (440 V DC) 10 kA                                                                                                                                                                                         |
| Overvoltage Category                                        | III                                                                                                                                                                                                      |
| Pollution Degree                                            | 3                                                                                                                                                                                                        |
| Rated Impulse Withstand Voltage ( $U_{imp}$ )               | 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 Type                                               | Toggle                                                                                                                                                                                                   |
| Actuator Material                                           | Insulation Group II, Black, Sealable                                                                                                                                                                     |
| Actuator Marking                                            | I / O                                                                                                                                                                                                    |
| Contact Position Indication                                 | ON / OFF                                                                                                                                                                                                 |
| Degree of Protection                                        | IP20<br>IPXXB                                                                                                                                                                                            |
| Remarks                                                     | IP40 in enclosure with cover<br>Please note polarity of device                                                                                                                                           |
| Electrical Endurance                                        | 1500 DC cycle<br>20000 AC cycle<br>20000 cycle                                                                                                                                                           |
| Terminal Type                                               | Screw Terminals                                                                                                                                                                                          |
| 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 ( $t_2$ )                                    | 69 mm                                                                                                                                                                                                    |
| Installation Size                                           | acc. to DIN 43880 1                                                                                                                                                                                      |
| Power Supply Connection                                     | Please Note Polarity of Device                                                                                                                                                                           |

## Environmental

|                                                |                                                           |
|------------------------------------------------|-----------------------------------------------------------|
| Ambient Air Temperature                        | Operation -25 ... +55 °C<br>Storage -40 ... +70 °C        |
| Reference Ambient Air Temperature              | 20 °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   | 500 V DC<br>480Y / 277 V AC           |
| Connecting Capacity UL/CSA         | Busbar 14-8 AWG<br>Conductor 14-4 AWG |
| Tightening Torque UL/CSA           | Main Circuit 18 in-lb                 |
| Interrupting Rating acc. to UL1077 | (440 V DC) 10 kA                      |

## Dimensions

|                            |          |
|----------------------------|----------|
| Product Net Width          | 52.5 mm  |
| Product Net Depth / Length | 69 mm    |
| Product Net Height         | 88 mm    |
| Product Net Weight         | 0.375 kg |

## Container Information

|                                |                |
|--------------------------------|----------------|
| Package Level 1 Units          | carton 1 piece |
| Package Level 1 Width          | 92 mm          |
| Package Level 1 Depth / Length | 58 mm          |
| Package Level 1 Height         | 80 mm          |
| Package Level 1 Gross Weight   | 0.4 kg         |
| Package Level 1 EAN            | 4013614455704  |
| Package Level 2 Units          | 36 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   | 14.8 kg        |
| Package Level 2 EAN            | 4013614463389  |

## Ordering

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

## Certificates and Declarations (Document Number)

|                                |                 |
|--------------------------------|-----------------|
| Declaration of Conformity - CE | 2CDK400602D2704 |
| Instructions and Manuals       | 2CDS207104P0001 |
| RoHS Information               | 2CDK400602D2703 |

## Popular Downloads

|                                   |                 |
|-----------------------------------|-----------------|
| Data Sheet, Technical Information | 2CDC002175D0202 |
| Instructions and                  | 2CDS207104P0001 |

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                                   |

Categories

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

