

PRODUCT-DETAILS

# S201MT-B50UC

## Miniature Circuit Breaker - S200MTUC - 1P - B - 50 ampere



### General Information

|                       |                                                           |
|-----------------------|-----------------------------------------------------------|
| Extended Product Type | S201MT-B50UC                                              |
| Product ID            | 2CDS271065R0505                                           |
| EAN                   | 4013614464997                                             |
| Catalog Description   | Miniature Circuit Breaker - S200MTUC - 1P - B - 50 ampere |
| Long Description      | S201MT-B50UC MCB B-Char., 10kA, 50A, 1P                   |

### Technical

|                                    |                                                                                                                              |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Standards                          | IEC/EN 60947-2                                                                                                               |
| Number of Poles                    | 1                                                                                                                            |
| Number of Protected Poles          | 1                                                                                                                            |
| Tripping Characteristic            | B                                                                                                                            |
| Rated Current ( $I_n$ )            | 50 A                                                                                                                         |
| Rated Operational Voltage          | acc. to IEC 60898-1 220 V DC<br>acc. to IEC 60898-1 253 V AC<br>acc. to IEC 60947-2 253 V AC<br>acc. to IEC 60947-2 220 V DC |
| Power Loss                         | 4.48 W<br>at Rated Operating Conditions per Pole 4.48 W                                                                      |
| Rated Insulation Voltage ( $U_i$ ) | acc. to IEC/EN 60664-1 484 V                                                                                                 |
| Operational Voltage                | Maximum (Incl. Tolerance) 250 V DC<br>Maximum (Incl. Tolerance) 266 V AC<br>Maximum 266 V AC<br>Maximum 250 V DC             |

|                                                                   |                                                                                                                                                                                                          |
|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                   | Minimum 12 V AC<br>Minimum 12 V DC                                                                                                                                                                       |
| Rated Frequency (f)                                               | DC<br>50 Hz<br>60 Hz                                                                                                                                                                                     |
| Rated Short-Circuit Capacity (I <sub>cn</sub> )                   | (220 V DC) 10 kA<br>(253 V AC) 10 kA                                                                                                                                                                     |
| Rated Ultimate Short-Circuit Breaking Capacity (I <sub>cu</sub> ) | (220 V DC) 10 kA<br>(253 V AC) 6 kA                                                                                                                                                                      |
| Rated Service Short-Circuit Breaking Capacity (I <sub>cs</sub> )  | (220 V DC) 10 kA                                                                                                                                                                                         |
| Energy Limiting Class                                             | 3                                                                                                                                                                                                        |
| 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 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>10000 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 <sub>2</sub> )                                  | 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              | 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 %                    |

and 25 °C / 95-100 %

RoHS Status

Following EU Directive 2011/65/EU

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**Technical UL/CSA**Interrupting Rating acc.  
to UL1077(220 V DC) 10 kA

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**Dimensions**

|                               |          |
|-------------------------------|----------|
| Product Net Width             | 17.5 mm  |
| Product Net Depth /<br>Length | 69 mm    |
| Product Net Height            | 88 mm    |
| Product Net Weight            | 0.125 kg |

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**Container Information**

|                                   |                 |
|-----------------------------------|-----------------|
| Package Level 1 Units             | carton 10 piece |
| Package Level 1 Width             | 92 mm           |
| Package Level 1 Depth /<br>Length | 183 mm          |
| Package Level 1 Height            | 80 mm           |
| Package Level 1 Gross<br>Weight   | 1.3 kg          |
| Package Level 1 EAN               | 4013614466199   |
| Package Level 2 Units             | 120 piece       |
| Package Level 2 Width             | 275 mm          |
| Package Level 2 Depth /<br>Length | 395 mm          |
| Package Level 2 Height            | 210 mm          |
| Package Level 2 Gross<br>Weight   | 16 kg           |
| Package Level 2 EAN               | 4013614467394   |

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**Ordering**

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

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**Certificates and Declarations (Document Number)**

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

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**Popular Downloads**

|                                      |                 |
|--------------------------------------|-----------------|
| Data Sheet, Technical<br>Information | 2CDC002175D0202 |
| Instructions and<br>Manuals          | 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

