# S202-K50

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## General Information

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|---|---|
| **Extended Product Type:** | S202-K50 |
| **Product ID:** | 2CDS252001R0577 |
| **EAN:** | 4016779551168 |
| **Catalog Description:** | Miniature Circuit Breaker - S200 - Number of Poles 2 - Tripping characteristic K |
| **Long Description:** | System pro M compact S200 miniature circuit breakers are current limiting. They have two different tripping mechanisms, the delayed thermal tripping mechanism for overload protection and the electromechanic tripping mechanism for short circuit protection. They are available in different characteristics (B,C,D,K,Z), configurations (1P,1P+N,2P,3P,3P+N,4P), breaking capacities (up to 6 kA at 230/400 V AC) and rated currents (up to 63A). All MCBs of the product range S200 comply with IEC/EN 60898-1, IEC/EN 60947-2, UL1077 and CSA 22.2 No. 235, allowing the use for residential, commercial and industrial applications. Bottom-fitting auxiliary contact can be mounted on S200 to save 50% space. |



## Categories

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

## Accessories Show accessory images

## Ordering

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|---|---|
| **EAN:** | 4016779551168 |
| **Minimum Order Quantity:** | 1 piece |
| **Customs Tariff Number:** | 85362010 |

## Dimensions

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|---|---|
| **Product Net Width:** | 35.0 mm |
| **Product Net Depth:** | 69.0 mm |
| **Product Net Height:** | 88.0 mm |
| **Product Net Weight:** | 0.250 kg |

## Container Information

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| **Package Level 1 Units:** | 5 piece |
| **Package Level 1 Width:** | 92.0 mm |
| **Package Level 1 Length:** | 183.0 mm |
| **Package Level 1 Height:** | 80.0 mm |
| **Package Level 1 Gross Weight:** | 1.300 kg |
| **Package Level 1 EAN:** | 4016779608862 |

## Environmental

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|---|---|
| **Ambient Air Temperature:** | Operation -25 ... +55 °C<br>Storage -40 ... +70 °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 2002/95/EC August 18, 2005 and amendment |

## Technical

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|---|---|
| **Standards:** | IEC/EN 60898-1<br>IEC/EN 60947-2<br>UL 1077 |
| **Number of Poles:** | 2 |
| **Tripping Characteristic:** | K |
| **Rated Current ($I_n$):** | 50.00 A |
| **Rated Operational Voltage:** | acc. to IEC60898-1 400 V AC<br>acc. to IEC60947-2 440 V AC |
| **Power Loss:** | 6.2 W<br>Per Pole 3.1 W |
| **Rated Insulation Voltage ($U_i$):** | acc. to IEC/EN 60664-1 440 V |
| **Operational Voltage:** | Maximum (incl. tolerance) 125 V DC<br>Maximum (incl. tolerance) 440 V AC<br>Minimum 12 V AC / 12 V DC |
| **Rated Frequency (f):** | 50 Hz<br>60 Hz |
| **Rated Short-Circuit Capacity ( $I_{cn}$ ):** | 6.0 kA |
| **Rated Ultimate Short-Circuit Breaking Capacity ($I_{cu}$):** | 10 kA |
| **Rated Service Short-Circuit Breaking Capacity ($I_{cs}$):** | 7.5 kA |
| **Energy Limiting Class:** | 3 |
| **Overvoltage Category:** | III |
| **Pollution Degree:** | 3 |
| **Rated Impulse Withstand Voltage ($U_{imp}$):** | 4 kV<br>(6.2 kV @ sea level) kV<br>(5.0 kV @ 2000 m) kV |
| **Dielectric Test Voltage:** | 50 / 60 Hz, 1 min: 2 kV |
| **Housing Material:** | Insulation group II, RAL 7035 |
| **Actuator Type:** | 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:** | 10000 AC cycle |
| **Mechanical Endurance:** | 20000 cycle |
| **Terminal Type:** | Screw Terminals |
| **Screw Terminal Type:** | Failsafe Bi-directional Cylinder-lift Terminal |
| **Connecting Capacity:** | Busbar 10 / 10 mm²<br>Flexible with Ferrule 0.75 ... 25 mm²<br>Flexible 0.75 ... 25 mm²<br>Rigid 0.75 ... 35 mm² |

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|---|---|
| | Stranded 0.75 ... 35 mm² |
| **Tightening Torque:** | 2.8 N·m |
| **Recommended Screw Driver:** | Pozidriv 2 |
| **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 |

## Technical UL/CSA

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|---|---|
| **Maximum Operating Voltage UL/CSA:** | 480Y / 277 V AC |
| **Connecting Capacity UL/CSA:** | Busbar 18 ... 8 AWG<br>Conductor 18 ... 4 AWG |
| **Tightening Torque UL/CSA:** | 25 in·lb |
| **Interrupting Rating acc. to UL1077:** | 6 kA |

## Certificates and Declarations (Document Number)

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|---|---|
| **Declaration of Conformity - CE:** | 2CDK403001D0602 |
| **RoHS Information:** | 2CDK400003K0201 |

## Classifications

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|---|---|
| **E-nummer:** | 2100720 |
| **ETIM 4.0:** | EC000042 - Miniature circuit breaker (MCB) |
| **ETIM 5.0:** | EC000042 - Miniature circuit breaker (MCB) |
| **Object Classification Code:** | F |