

# SH201-C20



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

## General Information

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| <b>Extended Product Type:</b> | SH201-C20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Product ID:</b>            | 2CDS211001R0204                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>EAN:</b>                   | 4016779630665                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Catalog Description:</b>   | Miniature Circuit Breaker - SH200 - 1P - C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Long Description:</b>      | Compact Home SH200 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), 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 40 A). All MCBs of the product range SH200 comply with IEC/EN 60898-1, allowing the use for residential applications. |

## Additional Information

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|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Actuator Material:</b>                 | Insulation Group II, Black, Sealable                                                                                                                                                                        |
| <b>Actuator Type:</b>                     | Toggle                                                                                                                                                                                                      |
| <b>Ambient Air Temperature:</b>           | Operation -25 ... +55 °C<br>Storage -40 ... +70 °C                                                                                                                                                          |
| <b>Built-In Depth (t<sub>2</sub>):</b>    | 69 mm                                                                                                                                                                                                       |
| <b>Connecting Capacity:</b>               | Conductor 25 / 25 mm <sup>2</sup><br>Flexible with Ferrule 0.75 ... 16 mm <sup>2</sup><br>Flexible 0.75 ... 16 mm <sup>2</sup><br>Rigid 0.75 ... 25 mm <sup>2</sup><br>Stranded 0.75 ... 25 mm <sup>2</sup> |
| <b>Contact Position Indication:</b>       | ON / OFF                                                                                                                                                                                                    |
| <b>Country of Origin:</b>                 | Germany (DE)                                                                                                                                                                                                |
| <b>Customs Tariff Number:</b>             | 85362010                                                                                                                                                                                                    |
| <b>Data Sheet, Technical Information:</b> | 2CSC400003B0202                                                                                                                                                                                             |
| <b>Declaration of Conformity - CE:</b>    | 2CDK400607D2703                                                                                                                                                                                             |
| <b>Degree of Protection:</b>              | IP20                                                                                                                                                                                                        |
| <b>Dielectric Test Voltage:</b>           | 50 / 60 Hz, 1 min: 2 kV                                                                                                                                                                                     |
| <b>E-number:</b>                          | 2100479                                                                                                                                                                                                     |
| <b>EAN:</b>                               | 4016779630665                                                                                                                                                                                               |
| <b>EPLAN Catalog Tree:</b>                | Electrical engineering / Protection devices / General                                                                                                                                                       |
| <b>EPLAN Function Definition:</b>         | Circuit breaker / Single circuit breaker / Circuit breaker 1_2                                                                                                                                              |
| <b>ETIM 4:</b>                            | EC000042 - Miniature circuit breaker (MCB)                                                                                                                                                                  |
| <b>ETIM 5:</b>                            | EC000042 - Miniature circuit breaker (MCB)                                                                                                                                                                  |
| <b>ETIM 6:</b>                            | EC000042 - Miniature circuit breaker (MCB)                                                                                                                                                                  |
| <b>Electrical Endurance:</b>              | 20000 AC cycle                                                                                                                                                                                              |
| <b>Energy Limiting Class:</b>             | 3                                                                                                                                                                                                           |
| <b>Environmental Conditions:</b>          | 28 cycles<br>with 55 °C / 90-96 %<br>and 25 °C / 95-100 %                                                                                                                                                   |
| <b>Environmental Information:</b>         | 2CDK400030D0201                                                                                                                                                                                             |
| <b>Housing Material:</b>                  | Insulation Group II, RAL 7035                                                                                                                                                                               |
| <b>Industrial IT Certification Level:</b> | 0                                                                                                                                                                                                           |
| <b>Installation Size:</b>                 | acc. to DIN 43880 1                                                                                                                                                                                         |
| <b>Instructions and Manuals:</b>          | 2CSC400003B0202                                                                                                                                                                                             |
| <b>Invoice Description:</b>               | SH201-C 20 MiniCircuitBreaker C-Char.,6kA,20A,1P                                                                                                                                                            |
| <b>Mechanical Endurance:</b>              | 20000 cycle                                                                                                                                                                                                 |

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|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| <b>Minimum Order Quantity:</b>                            | 1 piece                                                                                                        |
| <b>Mounting Position:</b>                                 | Any                                                                                                            |
| <b>Mounting on DIN Rail:</b>                              | 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 |
| <b>Number of Poles:</b>                                   | 1                                                                                                              |
| <b>Number of Protected Poles:</b>                         | 1                                                                                                              |
| <b>Object Classification Code:</b>                        | F                                                                                                              |
| <b>Operational Voltage:</b>                               | Maximum (Incl. Tolerance) 253 V AC<br>Maximum 253 V AC<br>Minimum 12 V AC                                      |
| <b>Overvoltage Category:</b>                              | III                                                                                                            |
| <b>Package Level 1 Gross Weight:</b>                      | 1.3 kg                                                                                                         |
| <b>Package Level 1 Height:</b>                            | 80 mm                                                                                                          |
| <b>Package Level 1 Length:</b>                            | 183 mm                                                                                                         |
| <b>Package Level 1 Units:</b>                             | 10 piece                                                                                                       |
| <b>Package Level 1 Width:</b>                             | 92 mm                                                                                                          |
| <b>Package Level 2 EAN:</b>                               | 4016779988063                                                                                                  |
| <b>Pole Net Weight:</b>                                   | 0.115 kg                                                                                                       |
| <b>Pollution Degree:</b>                                  | 2                                                                                                              |
| <b>Power Loss:</b>                                        | 2.5 W<br>at Rated Operating Conditions per Pole 2.5 W                                                          |
| <b>Power Supply Connection:</b>                           | Arbitrary                                                                                                      |
| <b>Product Main Type:</b>                                 | SH200                                                                                                          |
| <b>Product Name:</b>                                      | Miniature Circuit Breaker                                                                                      |
| <b>Product Net Depth:</b>                                 | 69 mm                                                                                                          |
| <b>Product Net Height:</b>                                | 85 mm                                                                                                          |
| <b>Product Net Weight:</b>                                | 0.125 kg                                                                                                       |
| <b>Product Net Width:</b>                                 | 17.5 mm                                                                                                        |
| <b>Product Range:</b>                                     | SH200                                                                                                          |
| <b>Rated Current (I<sub>n</sub>):</b>                     | 20 A                                                                                                           |
| <b>Rated Frequency (f):</b>                               | 50 Hz<br>60 Hz                                                                                                 |
| <b>Rated Impulse Withstand Voltage (U<sub>imp</sub>):</b> | 4 kV<br>(6.2 kV @ sea level)<br>(5.0 kV @ 2000 m)                                                              |
| <b>Rated Insulation Voltage (U<sub>i</sub>):</b>          | acc. to IEC/EN 60664-1 440 V                                                                                   |
| <b>Rated Operational Voltage:</b>                         | acc. to IEC 60898-1 230 / 400 V AC                                                                             |
| <b>Rated Short-Circuit Capacity (I<sub>cn</sub>):</b>     | (230 / 400 V AC) 6 kA                                                                                          |
| <b>Rated Voltage (U<sub>r</sub>):</b>                     | 230 V AC                                                                                                       |
| <b>Recommended Screw Driver:</b>                          | Pozidriv 2                                                                                                     |
| <b>Reference Ambient Air Temperature:</b>                 | 30 °C                                                                                                          |
| <b>Remarks:</b>                                           | IP40 in enclosure with cover                                                                                   |
| <b>Resistance to Shock acc. to IEC 60068-2-27:</b>        | 25g / 2 shocks / 13 ms                                                                                         |
| <b>Resistance to Vibrations acc. to IEC 60068-2-6:</b>    | 5g, 20 cycles at 5 ... 150 ... 5 Hz with load 0.8 In                                                           |
| <b>RoHS Date:</b>                                         | 0335                                                                                                           |
| <b>RoHS Information:</b>                                  | 2CDK400003K0201                                                                                                |
| <b>RoHS Status:</b>                                       | Following EU Directive 2002/95/EC August 18, 2005 and amendment                                                |
| <b>Screw Terminal Type:</b>                               | Cage Terminal                                                                                                  |
| <b>Selling Unit of Measure:</b>                           | piece                                                                                                          |

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|--------------------------------------|-------------------------------|
| Original Equipment Manufacturer:     | ABB                           |
| Short Description:                   | SH201-C 20 MiniCircuitBreaker |
| Standards:                           | IEC/EN 60898-1                |
| Terminal Type:                       | Screw Terminals               |
| Tightening Torque:                   | 2 N·m                         |
| Tripping Characteristic:             | C                             |
| UNSPSC:                              | 39121614                      |
| Width in Number of Modular Spacings: | 1                             |
| eClass:                              | 7.0 27141901                  |
| Accessories Available:               | No                            |
| Actuator Marking:                    | I / O                         |

