

## General Information

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| <b>Extended Product Type:</b> | S801S-C20   |
| <b>Product ID:</b>            | 2CCS861001R0204   |
| <b>EAN:</b>                   | 7612271200510   |
| <b>Catalog Description:</b>   | S801S-C20   |
| <b>Long Description:</b>      | The S801S-C20 is a 1-pole High Performance Circuit breaker with C-characteristic, with cage terminal and a rated current of 20 A. It is a current limiting device with a maximum breaking capacity of 50kA at 240/415V. It can be used for voltages up to 400/690V and in DC as well. It has two different tripping mechanisms, the thermal tripping mechanism for overload protection and the electromechanic tripping mechanism for short circuit protection. The S801S-C20 complies with IEC/EN 60898-1 and IEC/EN 60947-2 and allows the use for residential, commercial and industrial applications. It has numerous of approvals, therefore it can be used worldwide. The extensive range of accessory makes the use of S801S-C20 more comfortable. Due to the fast arc extinction of S801S-C20 your application will be secured. |

## Additional Information

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| <b>ABB Industrial IT Suite:</b>           | Control IT  |
| <b>Ambient Air Temperature:</b>           | Operation -25 ... +60 °C<br>Storage -40 ... +70 °C  |
| <b>Connecting Capacity:</b>               | Stranded 1 ... 50 mm <sup>2</sup><br>Flexible 1 ... 70 mm <sup>2</sup>  |
| <b>Contact Position Indication:</b>       | ON / OFF / TRIP   |
| <b>Country of Origin:</b>                 | Switzerland (CH)  |
| <b>Customs Tariff Number:</b>             | 85362020  |
| <b>Data Sheet, Technical Information:</b> | 2CCC413003C0203   |
| <b>Declaration of Conformity - CE:</b>    | 2CCC413016D060  |
| <b>Degree of Protection:</b>              | acc. to IEC 60529 IP20  |
| <b>Dimension Diagram:</b>                 | 2CCC413003C0201   |
| <b>EAN:</b>                               | 7612271200510   |
| <b>EPLAN Catalog Tree:</b>                | Electrical engineering / Protection devices / General   |
| <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>              | 10000 cycle   |
| <b>Energy Limiting Class:</b>             | 3   |
| <b>Environmental Conditions:</b>          | Damp Heat Cyclic acc. to IEC 60068-2-30 12+12 cycle<br>Damp Heat Cyclic acc. to IEC 60068-2-30 55°C @ 90-96%<br>Damp Heat Cyclic acc. to IEC 60068-2-30 25°C @ 90-100%<br>Dry Heat Test B acc. to IEC 60068-2-2 16 hour @ 55 °C<br>Dry Heat Test B acc. to IEC 60068-2-2 2 hour @ 70 °C |
| <b>Environmental Information:</b>         | 2CCY413207D0202   |
| <b>Frequency (f):</b>                     | 50 ... 60 Hz  |
| <b>Housing Material:</b>                  | Insulation group I, RAL 7035  |
| <b>IT Publishing Status:</b>              | Level 0 - Information enabled   |
| <b>Industrial IT Certification Level:</b> | 0   |
| <b>Instructions and Manuals:</b>          | 2CCC413016M0004   |
| <b>Invoice Description:</b>               | S801S-C20   |
| <b>Mechanical Endurance:</b>              | 10000 cycle   |
| <b>Minimum Order Quantity:</b>            | 1 piece   |

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| <b>Mounting Position:</b>  | Any   |
| <b>Mounting on DIN Rail:</b>   | 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                |
| <b>Number of Poles:</b>  | 1   |
| <b>Object Classification Code:</b>   | F   |
| <b>Operational Voltage:</b>  | Maximum 230/400 V AC<br>Minimum 12 V AC   |
| <b>Overvoltage Category:</b>   | IV  |
| <b>Package Level 1 EAN:</b>  | 7612271200510   |
| <b>Package Level 1 Gross Weight:</b>   | 270 g   |
| <b>Package Level 1 Height:</b>   | 99 mm   |
| <b>Package Level 1 Length:</b>   | 33 mm   |
| <b>Package Level 1 Units:</b>  | 1 piece   |
| <b>Package Level 1 Width:</b>  | 105 mm  |
| <b>Package Level 2 Units:</b>  | 1   |
| <b>Pollution Degree:</b>   | 3   |
| <b>Power Loss:</b>   | at Rated Operating Conditions per Pole 3.5 W  |
| <b>Product Depth:</b>  | 88 mm   |
| <b>Product Main Type:</b>  | S800S   |
| <b>Product Name:</b>   | High Performance MCB  |
| <b>Product Net Depth:</b>  | 82.5 mm   |
| <b>Product Net Height:</b>   | 95 mm   |
| <b>Product Net Length:</b>   | 27 mm   |
| <b>Product Net Weight:</b>   | 0.25 kg   |
| <b>Product Net Width:</b>  | 27 mm   |
| <b>Rated Current (<math>I_n</math>):</b>                                     | 20 A  |
| <b>Rated Frequency (f):</b>  | 50 / 60 Hz  |
| <b>Rated Impulse Withstand Voltage (<math>U_{imp}</math>):</b>               | 8 kV  |
| <b>Rated Insulation Voltage (<math>U_i</math>):</b>                          | 690 V AC  |
| <b>Rated Operational Current (<math>I_b</math>):</b>                         | 20 A  |
| <b>Rated Operational Voltage:</b>  | 400/690 V AC<br>125 V DC  |
| <b>Rated Service Short-Circuit Breaking Capacity (<math>I_{cs}</math>):</b>  | (240 / 415 V AC) 40 kA<br>(254 / 440 V AC) 22.5 kA<br>(400 / 690 V AC) 4 kA<br>(125 V DC) 30 kA                               |
| <b>Rated Short-Circuit Capacity (<math>I_{cn}</math>):</b>                   | (230 / 400 V AC) 25 kA  |
| <b>Rated Ultimate Short-Circuit Breaking Capacity (<math>I_{cu}</math>):</b> | (240 / 415 V AC) 50 kA<br>(254 / 440 V AC) 30 kA<br>(400 / 690 V AC) 6 kA<br>(125 V DC) 30 kA                                 |
| <b>Rated Voltage (<math>U_r</math>):</b>                                     | 230 / 400 V   |
| <b>Recommended Screw Driver:</b>   | Pozidriv 2  |
| <b>Reference Ambient Air Temperature:</b>                                    | acc. to IEC60947-2 30 °C<br>acc. to EN60898-1 30 °C   |
| <b>Remarks:</b>  | Connection from top and bottom<br>Connecting with CU only<br>IP40 in enclosure with cover<br>Cage terminal with captive screw |
| <b>Resistance to Vibrations acc. to IEC 60068-2-6:</b>                       | 2 - 13.2 Hz / 1mm<br>13.2 - 100Hz / 0.7g<br>with load 100% x $I_e$  |
| <b>RoHS Date:</b>  | 20170426  |

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| <b>RoHS Information:</b>         | 2CCC413008D0206  |
| <b>RoHS Status:</b>              | Following EU Directive 2002/95/EC August 18, 2005 and amendment  |
| <b>Selling Unit of Measure:</b>  | piece  |
| <b>Short Description:</b>        | S801S-C20 High Performance Circuit Breaker - S800S - Number of poles 1 - Tripping characteristic C - Rated current 20A - Cage terminal |
| <b>Size:</b>                     | 1 module   |
| <b>Standards:</b>                | IEC/EN 60947-2<br>IEC/EN 60898-1   |
| <b>Terminal Type:</b>            | Screw Terminals  |
| <b>Tightening Torque:</b>        | 3.5 N·m<br>31 in·lb  |
| <b>Tripping Characteristic:</b>  | C  |
| <b>Type of Residual Current:</b> | standard version   |
| <b>Actuator Marking:</b>         | I / O  |

