

# S801S-K100



Products → Low Voltage Products and Systems → Modular DIN Rail Products  
→ High Performance Circuit Breakers HPCBs

## General Information

|                               |  |
|-------------------------------|--|
| <b>Extended Product Type:</b> | S801S-K100   |
| <b>Product ID:</b>            | 2CCS861001R0637  |
| <b>EAN:</b>                   | 7612271201548  |
| <b>Catalog Description:</b>   | S801S-K100 High Performance MCB  |
| <b>Long Description:</b>      | <p>The S801S-K100 is a 1-pole High Performance Circuit breaker with K-Characteristic, with cage terminal and a rated current of 100 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-K100 complies with IEC/EN 60947-2 and allows the use for industrial applications. It has numerous of approvals, therefore it can be used worldwide. The extensive range of accessory makes the use of S801S-K100 more comfortable. Due to the fast arc extinction of S801S-K100 your application will be secured.</p> |

## Ordering

|                                |          |
|--------------------------------|----------|
| <b>Minimum Order Quantity:</b> | 1 piece  |
| <b>Customs Tariff Number:</b>  | 85362020 |

## Popular Downloads

|   |                 |
|---|-----------------|
| <b>Data Sheet, Technical Information:</b> | 2CCC413003C0203 |
| <b>Instructions and Manuals:</b>          | 2CCC413016M0004 |
| <b>Dimension Diagram:</b>                 | 2CCC413003C0201 |

## Dimensions

|                            |         |
|----------------------------|---------|
| <b>Product Net Width:</b>  | 27 mm   |
| <b>Product Net Depth:</b>  | 82.5 mm |
| <b>Product Net Height:</b> | 95 mm   |
| <b>Product Net Weight:</b> | 245 g   |

## Technical

|                                       |                |
|---------------------------------------|----------------|
| <b>Standards:</b>                     | IEC/EN 60947-2 |
| <b>Number of Poles:</b>               | 1              |
| <b>Tripping Characteristic:</b>       | K              |
| <b>Rated Current (I<sub>n</sub>):</b> | 100 A          |

|   |   |
|---|---|
| <b>Rated Operational Voltage:</b>                                       | 400/690 V AC<br>125 V DC  |
| <b>Power Loss:</b>  | at Rated Operating Conditions per Pole 9.4 W  |
| <b>Rated Insulation Voltage (U<sub>i</sub>):</b>                        | 690 V AC  |
| <b>Rated Frequency (f):</b>   | 50 / 60 Hz  |
| <b>Rated Ultimate Short-Circuit Breaking Capacity (I<sub>cu</sub>):</b> | (240 / 415 V AC) 50 kA<br>(254 / 440 V AC) 30 kA<br>(400 / 690 V AC) 4.5 kA<br>(125 V DC) 30 kA                               |
| <b>Rated Service Short-Circuit Breaking Capacity (I<sub>cs</sub>):</b>  | (240 / 415 V AC) 40 kA<br>(254 / 440 V AC) 15 kA<br>(400 / 690 V AC) 4 kA<br>(125 V DC) 30 kA                                 |
| <b>Overvoltage Category:</b>  | IV  |
| <b>Pollution Degree:</b>  | 3   |
| <b>Rated Impulse Withstand Voltage (U<sub>imp</sub>):</b>               | 8 kV  |
| <b>Housing Material:</b>  | Insulation group I, RAL 7035  |
| <b>Contact Position Indication:</b>                                     | ON / OFF / TRIP   |
| <b>Degree of Protection:</b>  | acc. to IEC 60529 IP20  |
| <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>Electrical Endurance:</b>  | 6000 cycle  |
| <b>Mechanical Endurance (N<sub>endu</sub>):</b>                         | 6000 cycle  |
| <b>Terminal Type:</b>   | Screw Terminals   |
| <b>Connecting Capacity:</b>   | Stranded 1 ... 50 mm <sup>2</sup><br>Flexible 1 ... 70 mm <sup>2</sup>  |
| <b>Tightening Torque:</b>   | 3.5 N·m<br>31 in·lb   |
| <b>Recommended Screw Driver:</b>  | Pozidriv 2  |
| <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>Mounting Position:</b>   | Any   |

## Environmental

|  |   |
|--|---|
| <b>Ambient Air Temperature:</b>                        | Operation -25 ... +60 °C<br>Storage -40 ... +70 °C              |
| <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 Ie |

**Environmental Conditions:** Damp Heat Cyclic acc. to IEC 60068-2-30 12+12 cycle  
Damp Heat Cyclic acc. to IEC 60068-2-30 55°C @ 90-96%  
Damp Heat Cyclic acc. to IEC 60068-2-30 25°C @ 90-100%  
Dry Heat Test B acc. to IEC 60068-2-2 16 hour @ 55 °C  
Dry Heat Test B acc. to IEC 60068-2-2 2 hour @ 70 °C

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**RoHS Status:** Following EU Directive 2002/95/EC August 18, 2005 and amendment

## Technical UL/CSA

**Interrupting Rating acc. to UL1077:** (240 V AC) 30 kA  
(277 V AC) 14 kA  
(347 V AC) 6 kA

## Certificates and Declarations (Document Number)

**Declaration of Conformity - CE:** 2CCC413016D060

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**Environmental Information:** 2CCY413207D0202

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**Instructions and Manuals:** 2CCC413016M0004

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**RoHS Information:** 2CCC413008D0206

## Container Information

**Package Level 1 Units:** 1 piece

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**Package Level 1 Width:** 105 mm

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**Package Level 1 Length:** 33 mm

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**Package Level 1 Height:** 99 mm

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**Package Level 1 Gross Weight:** 270 g

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**Package Level 1 EAN:** 7612271201548

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**Package Level 2 Units:** 1

## Classifications

**Object Classification Code:** F

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**ETIM 4:** EC000042 - Miniature circuit breaker (MCB)

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**ETIM 5:** EC000042 - Miniature circuit breaker (MCB)

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**ETIM 6:** EC000042 - Miniature circuit breaker (MCB)

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**ETIM 7:** EC000042 - Miniature circuit breaker (MCB)

