

# S803S-B100



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

## General Information

<b>Extended Product Type:</b>	S803S-B100
<b>Product ID:</b>	2CCS863001R0825
<b>EAN:</b>	7612271200343
<b>Catalog Description:</b>	S803S-B100 High Performance MCB
<b>Long Description:</b>	<p>The S803S-B100 is a 3-pole High Performance Circuit breaker with B-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 S803S-B100 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 S803S-B100 more comfortable. Due to the fast arc extinction of S803S-B100 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>	81 mm
<b>Product Net Depth:</b>	82.5 mm
<b>Product Net Height:</b>	95 mm
<b>Product Net Weight:</b>	735 g

## Technical

<b>Standards:</b>	IEC/EN 60947-2
<b>Number of Poles:</b>	3
<b>Tripping Characteristic:</b>	B
<b>Rated Current (I<sub>n</sub>):</b>	100 A

<b>Rated Operational Voltage:</b>	400/690 V AC 375 V DC
<b>Power Loss:</b>	at Rated Operating Conditions per Pole 8 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 (254 / 440 V AC) 30 kA (400 / 690 V AC) 4.5 kA (125 V DC) 30 kA
<b>Rated Service Short-Circuit Breaking Capacity (I<sub>cs</sub>):</b>	(240 / 415 V AC) 40 kA (254 / 440 V AC) 15 kA (400 / 690 V AC) 4 kA (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 Connecting with CU only IP40 in enclosure with cover Cage terminal with captive screw
<b>Electrical Endurance:</b>	6000 cycle
<b>Mechanical Endurance (N<sub>endu</sub>):</b>	4000 cycle
<b>Terminal Type:</b>	Screw Terminals
<b>Connecting Capacity:</b>	Stranded 1 ... 50 mm <sup>2</sup> Flexible 1 ... 70 mm <sup>2</sup>
<b>Tightening Torque:</b>	3.5 N·m 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 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 Storage -40 ... +70 °C
<b>Resistance to Vibrations acc. to IEC 60068-2-6:</b>	2 - 13.2 Hz / 1mm 13.2 - 100Hz / 0.7g 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  
(480Y / 277 V AC) 14 kA  
(600Y / 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:** 86 mm

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**Package Level 1 Height:** 99 mm

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**Package Level 1 Gross Weight:** 770 g

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**Package Level 1 EAN:** 7612271200343

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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)

