

# S803S-C100



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

## General Information

<b>Extended Product Type:</b>	S803S-C100
<b>Product ID:</b>	2CCS863001R0824
<b>EAN:</b>	7612271200824
<b>Catalog Description:</b>	S803S-C100 High Performance MCB
<b>Long Description:</b>	The S803S-C100 is a 3-pole High Performance Circuit breaker with C-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-C100 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-C100 more comfortable. Due to the fast arc extinction of S803S-C100 your application will be secured.

## Additional Information

<b>ABB Industrial IT Suite:</b>	Control IT
<b>Actuator Marking:</b>	I / O
<b>Ambient Air Temperature:</b>	Operation -25 ... +60 °C Storage -40 ... +70 °C
<b>Connecting Capacity:</b>	Stranded 1 ... 50 mm <sup>2</sup> 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>E-number:</b>	2101570
<b>EAN:</b>	7612271200824
<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>	6000 cycle
<b>Environmental Conditions:</b>	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
<b>Environmental Information:</b>	2CCY413207D0202
<b>Frequency (f):</b>	50 ... 60 Hz
<b>Housing Material:</b>	Insulation group I, RAL 7035
<b>IIT Publishing Status:</b>	Level 0 - Information enabled
<b>Industrial IT Certification Level:</b>	0
<b>Instructions and Manuals:</b>	2CCC413016M0004
<b>Interrupting Rating acc. to UL1077:</b>	(240 V AC) 30 kA (480Y / 277 V AC) 14 kA (600Y / 347 V AC) 6 kA

<b>Invoice Description:</b>	S803S-C100 High Performance MCB
<b>Mechanical Endurance:</b>	4000 cycle
<b>Minimum Order Quantity:</b>	1 piece
<b>Mounting Position:</b>	Any
<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>Number of Poles:</b>	3
<b>Object Classification Code:</b>	F
<b>Overvoltage Category:</b>	IV
<b>Package Level 1 EAN:</b>	7612271200824
<b>Package Level 1 Gross Weight:</b>	770 g
<b>Package Level 1 Height:</b>	99 mm
<b>Package Level 1 Length:</b>	86 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 8 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>	81 mm
<b>Product Net Weight:</b>	0.74 kg
<b>Product Net Width:</b>	81 mm
<b>Rated Current (<math>I_n</math>):</b>	100 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_e</math>):</b>	100 A
<b>Rated Operational Voltage:</b>	400/690 V AC 375 V DC
<b>Rated Service Short-Circuit Breaking Capacity (<math>I_{cs}</math>):</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>Rated Short-Circuit Capacity (<math>I_{cn}</math>):</b>	25 kA
<b>Rated Ultimate Short-Circuit Breaking Capacity (<math>I_{cu}</math>):</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 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 acc. to EN60898-1 30 °C
<b>Remarks:</b>	Connection from top and bottom Connecting with CU only IP40 in enclosure with cover Cage terminal with captive screw
<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

<b>RoHS Date:</b>	20170426
<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>	S803S-C100 High Performance Circuit Breaker - S800S - Number of poles 3 - Tripping characteristic C - Rated current 100A - Cage terminal
<b>Size:</b>	3 modules
<b>Standards:</b>	IEC/EN 60947-2 IEC/EN 60898-1 UL 1077
<b>Terminal Type:</b>	Screw Terminals
<b>Tightening Torque:</b>	3.5 N·m 31 in·lb
<b>Tripping Characteristic:</b>	C
<b>Type of Residual Current:</b>	standard version

