

PRODUCT-DETAILS

# S803S-B20

## S803S-B20 High Performance MCB



### General Information

Extended Product Type	S803S-B20
Product ID	2CCS863001R0205
EAN	7612271200275
Catalog Description	S803S-B20 High Performance MCB

Long Description	<p>The S803S-B20 is a 3-pole High Performance Circuit breaker with B-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 S803S-B20 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 S803S-B20 more comfortable. Due to the fast arc extinction of S803S-B20 your application will be secured.</p>
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### Technical

Standards	IEC/EN 60947-2, IEC/EN 60898-1, UL 1077
Tripping Characteristic	B
Type of Residual Current	standard version
Rated Voltage ( $U_r$ )	acc. to IEC 60947-2 690 V AC acc. to IEC 60947-2 375 V DC

	acc. to IEC 60898-1 400 V AC
Rated Operational Voltage	acc. to IEC 60898-1 400 V
Operational Voltage	Maximum 230/400 V AC Minimum 12 V AC
Rated Insulation Voltage ( $U_i$ )	acc. to IEC/EN 60664-1 690 V
Rated Impulse Withstand Voltage ( $U_{imp}$ )	8 kV
Input Voltage Type	AC/DC
Rated Current ( $I_n$ )	20 A
Rated Operational Current ( $I_e$ )	20 A
Rated Short-Circuit Capacity	(230 V) 25 kA (400 V) 25 kA
Rated Ultimate Short- Circuit Breaking Capacity ( $I_{cu}$ )	(230 V) 50 kA (400 V) 6 kA
Rated Conditional Short- Circuit Current ( $I_{nc}$ )	(230 V) 50 kA (400 V) 50 kA
Rated Service Short- Circuit Breaking Capacity ( $I_{cs}$ )	(240 / 415 V AC) 40 kA (254 / 440 V AC) 22.5 kA (400 / 690 V AC) 4 kA (125 V DC) 30 kA
Frequency (f)	50 ... 60 Hz
Rated Frequency (f)	50/60 Hz
Power Loss	10.5 W at Rated Operating Conditions per Pole 3.5 W
Contact Position Indication	ON / OFF / TRIP
Energy Limiting Class	3
Electrical Endurance	10000 cycle
Mechanical Endurance	10000 cycle
Number of Poles	3
Number of Protected Poles	3
Overvoltage Category	IV
Tightening Torque	3.5 N·m 31 in·lb
Release Type	B
Actuator Marking	I / O
Housing Material	Insulation group I, RAL 7035
Mounting on DIN Rail	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
Mounting Position	Any
Recommended Screw Driver	Pozidriv 2
Accessories Available	Yes
Remarks	Connection from top and bottom Connecting with CU only IP40 in enclosure with cover Cage terminal with captive screw
Connecting Capacity	Flexible 0 ... 50 mm <sup>2</sup> Rigid 0 ... 70 mm <sup>2</sup>
Terminal Type	Screw Terminals

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## Environmental

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Ambient Temperature	-25...60 °C
Ambient Air Temperature	Operation -25 ... 60 °C
Reference Ambient Air Temperature	acc. to IEC60947-2 30 °C acc. to EN60898-1 30 °C
Degree of Protection	IP20
Pollution Degree	3
Resistance to Vibrations acc. to IEC 60068-2-6	2 - 13.2 Hz / 1mm 13.2 - 100Hz / 0.7g with load 100% x le
RoHS Status	Following EU Directive 2011/65/EU
RoHS Information	9AKK107680A3903 2CCC005083D0202
Environmental Information	2CCY413207D0203
Conflict Minerals Reporting Template (CMRT)	9AKK108468A3363

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## Technical UL/CSA

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Interrupting Rating acc. to UL1077	(480Y / 277 V AC) 14 kA (600Y / 347 V AC) 6 kA
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## Dimensions

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Width in Number of Modular Spacings	4.5
Product Net Width	81 mm
Product Net Height	95 mm
Product Net Depth / Length	82.5 mm
Product Net Weight	735 g
Size	3 modules
Built-In Depth (t <sub>2</sub> )	82.5 mm
Dimension Diagram	2CCC413003C0201

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## Ordering

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Minimum Order Quantity	1 piece
Package Level 1 Units	box 1 piece
Package Level 1 Gross Weight	770 g
E-Number (Finland)	3212056
E-Number (Switzerland)	807080315

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## Certificates and Declarations

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Declaration of Conformity  
- CE

2CCC005083D0202

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## Installation

Instructions and Manuals

2CCC413016M0008

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## Popular Downloads

Data Sheet, Technical  
Information

2CCC413003C0208

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## Classifications

ETIM 8	EC000042 - Miniature circuit breaker (MCB)
ETIM 9	EC000042 - Miniature circuit breaker (MCB)
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)
WEEE B2C / B2B	Business To Business
CN8	85362020
UNSPSC	39121603
eClass	V11.0 : 27141901
IDEA Granular Category Code (IGCC)	4899 >> Miniature circuit breaker (MCB) screw-in model
Object Classification Code	F

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## Categories

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

