



 PRODUCT-DETAILS

S803S-C6

High Performance MCB



General Information

Extended Product Type	S803S-C6
Product ID	2CCS863001R0064
EAN	7612271408169
Catalog Description	High Performance MCB

Long Description	<p>The S803S-C6 is a 3-pole High Performance Circuit breaker with C-characteristic, with cage terminal and a rated current of 6 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-C6 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-C6 more comfortable. Due to the fast arc extinction of S803S-C6 your application will be secured.</p>
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ABB EcoSolutions

ABB EcoSolutions	Yes
Recyclability Rate of the Product acc. to EN45555	Design for Closing Resource Loops - Standard EN45555 - 86.29 %

ABB Site Meeting Group
Waste To Landfill Target

No non-hazardous waste is sent to a landfill

End Of Life Disassembling Instructions	9AKK108470A2575
Environmental Product Declaration - EPD	9AKK108470A1695 9AKK108470A1696

Technical

Rated Ultimate Short- Circuit Breaking Capacity (I_{cu})	(415 V AC) 50 kA (440 V AC) 30 kA (500 V AC) 15 kA (690 V AC) 6 kA (375 V DC) 30 kA
Rated Service Short- Circuit Breaking Capacity (I_{cs})	(415 V AC) 40 kA (440 V AC) 22.5 kA (500 V AC) 11 kA (690 V AC) 4 kA (375 V DC) 30 kA
Contact Position Indication	ON / OFF / TRIP
Energy Limiting Class	3
Electrical Endurance	10000 cycle
Mechanical Endurance	10000 cycle
Number of Protected Poles	3
Number of Poles	3P
Tightening Torque	3.5 N·m 31 in·lb
Release Type	C
Actuator Marking	I / O
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 ² Rigid 0 ... 70 mm ²
Terminal Type	Screw Terminals

Electrical

Tripping Characteristic	C
Rated Operational Voltage	acc. to IEC 60898-1 400 V AC acc. to IEC 60947-2 690 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)	6 A
Rated Short-Circuit Capacity	(400 V AC) 25 kA
Frequency (f)	50...50 Hz
Rated Frequency (f)	50/60 Hz
Power Loss	5.4 W at Rated Operating Conditions per Pole 1.8 W

Overvoltage Category

IV

Design

Housing Material

Insulation group I, RAL 7035

Technical UL/CSA

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

Material Compliance

RoHS Information

9AKK107680A3903
2CCC005083D0202

RoHS Status

Following EU Directive 2011/65/EU

RoHS Date

20170426

REACH Declaration

9AKK108468A3036

REACH Information

False - does not contain substances > 0.1 mass percentage

REACH Date

20200527

Conflict Minerals
Reporting Template
(CMRT)

9AKK108468A3363

WEEE Category

5. Small Equipment (No External Dimension More Than 50 cm)

WEEE B2C / B2B

Business To Business

Environmental

Ambient Air
TemperatureOperation -25 ... +60 °C
Storage -40 ... +70 °CReference Ambient Air
Temperatureacc. to IEC60947-2 30 °C
acc. to EN60898-1 30 °C

Degree of Protection

IP20

Pollution Degree

3

Resistance to Vibrations

1 mm 2 - 13.2 Hz
0.7g with Load 100% x le 13.2 - 100 HzEnvironmental
Information

2CCY413207D0203

Dimensions

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

Built-In Depth (t₂)

82.5 mm

Dimension Diagram

2CCC413003C0201

Ordering

Package Level 1 Units	box 1 piece
Package Level 1 Gross Weight	770 g
E-Number (Finland)	3212313
E-Number (Norway)	1628412

Certificates and Declarations

CB Certificate	9AKK107680A0857
CCC Certificate	9AKK108469A3021
Declaration of Conformity - CE	2CCC005083D0202
DNV GL Certificate	2CCC413018D0201
ESTI Certificate	2CCC413020D0101
KC Certificate	9AKK107680A0932
LR Certificate	2CCC413017D0201
UL Certificate	9AKK107680A2286
VDE Certificate	2CCC413039D0601

Installation

Instructions and Manuals	2CCC413016M0008
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

Popular Downloads

Data Sheet, Technical Information	9AKK108468A9560 9AKK108468A9561 9AKK108468A9562
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External Classifications and Standards

ETIM 9	EC000042 - Miniature circuit breaker (MCB)
UNSPSC	39121603
eClass	V11.0 : 27141901
IDEA Granular Category Code (IGCC)	4899 >> Miniature circuit breaker (MCB) screw-in model
Object Classification Code	F
Standards	IEC/EN 60947-2 IEC/EN 60898-1 UL 1077

Categories

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



360°

