



 PRODUCT-DETAILS

S803S-C6

S803S-C6 High Performance MCB



General Information

Extended Product Type	S803S-C6
Product ID	2CCS863001R0064
EAN	7612271408169
Catalog Description	S803S-C6 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
EcoSolutions Profile	9AKK108471A1082
Recyclability Rate of the	Design for Closing Resource Loops - Standard EN45555 - 86.29 %

Product acc. to EN45555	
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	Total 5.4 W

at Rated Operating Conditions per Pole 1.8 W

Overvoltage Category	IV
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Design

Housing Material	Insulation group I, RAL 7035
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Technical UL/CSA

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

RoHS Declaration	2CCC005083D0202
RoHS Information	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
RoHS Date	20211214
REACH Declaration	9AKK108470A9089
REACH Information	False - does not contain substances > 0.1 mass percentage
REACH Date	20250313
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 Temperature	Operation -40 ... 70 °C Storage -40 ... 70 °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	1 mm 2 - 13.2 Hz 0.7g with Load 100% x le 13.2 - 100 Hz
Environmental 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 (t ₂)	82.5 mm
Dimension Diagram	2CCC413003C0201

Engineering

EPLAN Data

9AAC172534_EPLAN

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)
ETIM 10	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 - S800



360°

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