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 PRODUCT-DETAILS

## S802S-D6

### High Performance MCB




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#### General Information

Extended Product Type	S802S-D6
Product ID	2CCS862001R0061
EAN	7612271408190
Catalog Description	High Performance MCB

Long Description	<p>The S802S-D6 is a 2-pole High Performance Circuit breaker with D-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 S802S-D6 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 S802S-D6 more comfortable. Due to the fast arc extinction of S802S-D6 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 (250 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 (250 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	2
Number of Poles	2P
Tightening Torque	3.5 N·m 31 in·lb
Release Type	B
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 <sup>2</sup> Rigid 0 ... 70 mm <sup>2</sup>
Terminal Type	Screw Terminals

## Electrical

Tripping Characteristic	D
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...60 Hz
Rated Frequency (f)	50/60 Hz
Power Loss	3.4 W at Rated Operating Conditions per Pole 1.7 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 &gt; 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

3

Product Net Width

54 mm

Product Net Height

95 mm

Product Net Depth /  
Length

82.5 mm

Product Net Weight

490 g

Built-In Depth (t<sub>2</sub>)

82.5 mm

Dimension Diagram

2CCC413003C0201

## Ordering

Package Level 1 Units	box 1 piece
Package Level 1 Gross Weight	510 g
E-Number (Finland)	3212319
E-Number (Norway)	1628418

## 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)
eClass	V11.0 : 27141901
Object Classification Code	F
Standards	IEC/EN 60947-2 IEC/EN 60898-1 UL 1077

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## Categories

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

