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 PRODUCT-DETAILS

## S203-B1

### Miniature Circuit Breaker - 3P - B - 1 A



Product image  
not available

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#### General Information

Extended Product Type	S203-B1
Product ID	2CDS253001R0015
EAN	4016779926447
Catalog Description	Miniature Circuit Breaker - 3P - B - 1 A
Long Description	Miniature Circuit Breaker - S200 - 3P - B - 1 A

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#### ABB EcoSolutions

ABB EcoSolutions	Yes
EcoSolutions Profile	9AKK108469A3796
Circular Design Principles Recyclability Rate	Design for Closing Resource Loops - Standard EN45555 - 87.8 %
Offered with Extended Lifetime	Product Durability
End of Life Instructions	9AKK108468A3132
Environmental Product Declaration - EPD	9AKK108467A7832

<b>Technical</b>	
Standards	IEC/EN 60898-1 IEC/EN 60947-2 UL 1077
Tripping Characteristic	B
Rated Operational Voltage	acc. to IEC 60898-1 400 V AC acc. to IEC 60898-1 400 V acc. to IEC 60947-2 440 V AC
Rated Insulation Voltage (U <sub>i</sub> )	acc. to IEC/EN 60664-1 440 V
Rated Impulse Withstand Voltage (U <sub>imp</sub> )	4 kV at 2000 m 5 kV at Sea Level 6.2 kV
Dielectric Test Voltage	50/60 Hz-1 min: 2 kV
Input Voltage Type	AC/DC
Rated Current (I <sub>n</sub> )	1 A
Rated Short-Circuit Capacity	(AC) 6 kA (DC) 6 kA (400 V AC) 6 kA (400 V) 6 kA
Rated Ultimate Short-Circuit Breaking Capacity (I <sub>cu</sub> )	(230 V AC) 20 kA (400 V AC) 10 kA (440 V AC) 10 kA (230 V) 20 kA (400 V) 10 kA
Rated Conditional Short-Circuit Current (I <sub>nc</sub> )	(230 V) 6 kA
Rated Service Short-Circuit Breaking Capacity (I <sub>cs</sub> )	(230 V AC) 15 kA (400 V AC) 7.5 kA (440 V AC) 7.5 kA
Frequency (f)	50...60 Hz
Rated Frequency (f)	50 / 60 Hz
Power Loss	at Rated Operating Conditions per Pole 1.4 W
Power Supply Connection	Arbitrary
Contact Position Indication	Red ON / Green OFF
Energy Limiting Class	3
Electrical Endurance	20000 AC cycle
Mechanical Endurance	20000 cycle
Number of Poles	3
Number of Protected Poles	3
Overvoltage Category	III
Tightening Torque	2.8 N·m
Mounting Type	DIN-Rail
Release Type	B
Screw Terminal Type	Failsafe Bi-directional Cylinder-lift Terminal
Actuator Marking	I / O
Actuator Material	Insulation Group II, Black, Sealable
Housing Material	Insulation Group II, 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
Connecting Capacity	Busbar 10 / 10 mm <sup>2</sup>

	Flexible with Ferrule 0.75 ... 25 mm <sup>2</sup>
	Flexible 0.75 ... 25 mm <sup>2</sup>
	Flexible 0.75 ... 25 mm <sup>2</sup>
	Rigid 0.75 ... 35 mm <sup>2</sup>
	Rigid 0.75 ... 35 mm <sup>2</sup>
	Stranded 0.75 ... 35 mm <sup>2</sup>
Wire Stripping Length	12.5 mm
Terminal Type	Screw Terminals

## Material Compliance

RoHS Information	2CDK400003K0201
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
RoHS Date	0335
REACH Declaration	9AKK107492A1906
REACH Information	True - contains substances > 0.1 mass percentage
REACH Date	20240821
Conflict Minerals Reporting Template (CMRT)	9AKK108468A3363

## Environmental

Ambient Temperature	-25...55 °C
Ambient Air Temperature	Operation -25 ... +55 °C Storage -40 ... +70 °C
Degree of Protection	IP20 IP40 Enclosure with Cover IP40
Pollution Degree	3
Environmental Conditions	28 cycles with 55 °C / 90-96 % and 25 °C / 95-100 %
Resistance to Vibrations	20 Cycles with Load 0.8 In: 5g 5 ... 150 ... 5 Hz
Resistance to Shock acc. to IEC 60068-2-27	25g 2 shocks 13 ms

## Technical UL/CSA

Interrupting Rating acc. to UL1077	6 kA (277 V AC) 6 kA
Connecting Capacity UL/CSA	Busbar 18-8 AWG Conductor 18-4 AWG

## Dimensions

Width in Number of Modular Spacings	3.0
Product Net Width	52.5 mm
Product Net Height	85 mm
Product Net Depth / Length	69 mm
Product Net Weight	0.345 kg
Pole Net Weight	0.125 kg
Built-In Depth (t <sub>2</sub> )	69 mm
Dimension Diagram	2CDC022007F0010

## Container Information

Package Level 1 Units	carton 1 piece
Package Level 1 Width	92 mm
Package Level 1 Height	80 mm
Package Level 1 Depth / Length	58 mm
Package Level 1 Gross Weight	0.36 kg
Package Level 1 EAN	4016779926454
Package Level 2 Units	carton 36 piece
Package Level 2 Width	275 mm
Package Level 2 Height	210 mm
Package Level 2 Depth / Length	395 mm
Package Level 2 Gross Weight	13.36 kg
Package Level 2 EAN	4016779926461

## Ordering

Minimum Order Quantity	1 piece
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## Certificates and Declarations

Certification Agency	EN IEC UL
Declaration of Conformity - CE	2CDK403001D0602
Declaration of Conformity - UKCA	9AKK108467A5053
I <sup>2</sup> t Characteristic	9AKK107992A5102

## Installation

Instructions and Manuals	2CDS207104P0002
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## Popular Downloads

Data Sheet, Technical Information	9AKK107991A8329
I <sup>2</sup> t Characteristic	9AKK107992A5102

## 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	8536 20 10

UNSPSC	39121603
eClass	V11.0 : 27141901
IDEA Granular Category Code (IGCC)	4897 >> Miniature circuit breakers
Object Classification Code	F

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## Categories

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Low Voltage Products and Systems → Modular DIN Rail Products → Miniature Circuit Breakers MCBs → Miniature Circuit Breakers MCBs

