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 PRODUCT-DETAILS

## S201-B16 W/O ACC.

### Miniature Circuit Breaker - S200 - 1P - 16 A - B - (AC) 6 kA




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**General Information**

<b>Extended Product Type:</b>	S201-B16 W/O ACC.
<b>Product ID:</b>	2CDS251001R0165
<b>EAN:</b>	4016779463904
<b>Catalog Description:</b>	Miniature Circuit Breaker - S200 - 1P - 16 A - B - (AC) 6 kA
<b>Long Description:</b>	System pro M compact S200 miniature circuit breakers are current limiting. They have two different tripping mechanisms, the delayed thermal tripping mechanism for overload protection and the electromechanic tripping mechanism for short circuit protection. They are available in different characteristics (B,C,D,K,Z), configurations (1P,1P+N,2P,3P,3P+N,4P), breaking capacities (up to 6 kA at 230/400 V AC) and rated currents (up to 63A). All MCBs of the product range S200 comply with IEC/EN 60898-1, IEC/EN 60947-2, UL1077 allowing the use for residential, commercial and industrial applications. Bottom-fitting auxiliary contact can be mounted on S200 to save 50% space.
<b>Display Name:</b>	S201-B16 W/O ACC.

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**ABB EcoSolutions**

<b>ABB EcoSolutions:</b>	Yes
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<b>EcoSolutions Profile:</b>	9AKK108469A3796
<b>Recyclability Rate of the Product acc. to EN45555:</b>	Design for Closing Resource Loops - Standard EN45555 - 80.7 %
<b>ABB Site Meeting Group Waste To Landfill Target:</b>	No non-hazardous waste is sent to a landfill
<b>Extended Product Lifetime:</b>	Product Durability
<b>Offered with Takeback Services:</b>	Take Back for Recycling
<b>End Of Life Disassembling Instructions:</b>	9AKK108468A3132
<b>Environmental Product Declaration - EPD:</b>	9AKK108467A7832

## Technical

<b>Dielectric Test Voltage:</b>	50 / 60 Hz - 1 min 2 kV
<b>Rated Ultimate Short-Circuit Breaking Capacity (<math>I_{cu}</math>):</b>	(133 V AC) 20 kA (230 / 400 V AC) 10 kA (230 V AC) 10 kA (24 V DC) 20 kA (60 V DC) 10 kA (230 V) 10 kA (400 V) 10 kA
<b>Rated Service Short-Circuit Breaking Capacity (<math>I_{cs}</math>):</b>	(133 V AC) 15 kA (230 V AC) 7.5 kA
<b>Power Supply Connection:</b>	Arbitrary
<b>Contact Position Indication:</b>	Red ON / Green OFF
<b>Energy Limiting Class:</b>	3
<b>Electrical Endurance:</b>	20000 AC cycle
<b>Mechanical Endurance:</b>	20000 cycle
<b>Number of Protected Poles:</b>	1
<b>Number of Poles:</b>	1P
<b>Tightening Torque:</b>	2.8 N·m
<b>Screw Terminal Type:</b>	Failsafe Bi-directional Cylinder-lift Terminal
<b>Actuator Marking:</b>	I / O
<b>Actuator Material:</b>	Insulation Group II, Black, Sealable
<b>Recommended Screw Driver:</b>	Pozidriv 2
<b>Accessories Available:</b>	Yes
<b>Connecting Capacity:</b>	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> Rigid 0.75 ... 35 mm <sup>2</sup> Rigid 0.75 ... 35 mm <sup>2</sup> Stranded 0.75 ... 35 mm <sup>2</sup>
<b>Installation Size:</b>	acc. to DIN 43880 1
<b>Wire Stripping Length:</b>	12.5 mm
<b>Terminal Type:</b>	Screw Terminals

## Electrical

<b>Tripping Characteristic:</b>	B
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<b>Rated Operational Voltage:</b>	acc. to IEC 60898-1 230 V AC
<b>Operational Voltage:</b>	Maximum (Incl. Tolerance) 253 V AC Maximum (Incl. Tolerance) 72 V DC Minimum 12 V AC Minimum 12 V DC
<b>Rated Insulation Voltage (U<sub>i</sub>):</b>	acc. to IEC/EN 60664-1 440 V
<b>Rated Impulse Withstand Voltage (U<sub>imp</sub>):</b>	4 kV at 2000 m 5 kV at Sea Level 6.2 kV
<b>Input Voltage Type:</b>	AC/DC
<b>Rated Current (I<sub>n</sub>):</b>	16 A
<b>Rated Short-Circuit Capacity:</b>	(AC) 6 kA (DC) 6 kA (230 / 400 V AC) 6 kA
<b>Rated Conditional Short-Circuit Current (I<sub>nc</sub>):</b>	(230 V) 10 kA (400 V) 10 kA
<b>Frequency (f):</b>	50 Hz
<b>Rated Frequency (f):</b>	50 / 60 Hz
<b>Power Loss:</b>	2.5 W at Rated Operating Conditions per Pole 2.5 W
<b>Overvoltage Category:</b>	III
<b>I<sup>2</sup>t Characteristic:</b>	9AKK107992A5102

## Design

<b>Housing Material:</b>	Insulation Group II, RAL 7035
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## Technical UL/CSA

<b>Maximum Operating Voltage UL/CSA:</b>	60 V DC 480Y/277 V AC
<b>Interrupting Rating acc. to UL1077:</b>	(277 V AC) 6 kA (60 V DC) 10 kA (120 V) 10 kA
<b>Connecting Capacity UL/CSA:</b>	Busbar 18-8 AWG Conductor 18-4 AWG
<b>Tightening Torque UL/CSA:</b>	18 in·lb

## Material Compliance

<b>RoHS Declaration:</b>	9AKK108472A0372
<b>RoHS Information:</b>	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
<b>RoHS Date:</b>	20251203
<b>REACH Declaration:</b>	9AKK107492A1906
<b>REACH Information:</b>	False - does not contain substances > 0.1 mass percentage
<b>REACH Date:</b>	20251029

<b>Conflict Minerals Reporting Template (CMRT):</b>	9AKK108468A3363
<b>Toxic Substances Control Act - TSCA:</b>	9AKK108468A8104
<b>SCIP:</b>	e6800e55-46b1-49a3-881b-0f66d0e903ad Germany
<b>WEEE Category:</b>	5. Small Equipment (No External Dimension More Than 50 cm)
<b>WEEE B2C / B2B:</b>	Business To Business

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## Environmental

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<b>Ambient Air Temperature:</b>	Operation -25 ... +55 °C Storage -40 ... +70 °C
<b>Reference Ambient Air Temperature:</b>	30 °C
<b>Degree of Protection:</b>	IP20 IP40 Enclosure with Cover IP40
<b>Pollution Degree:</b>	3
<b>Environmental Conditions:</b>	28 cycles with 55 °C / 90-96 % and 25 °C / 95-100 %
<b>Resistance to Vibrations:</b>	20 Cycles with Load 0.8 In: 5g 5 ... 150 ... 5 Hz
<b>Resistance to Shock acc. to IEC 60068-2-27:</b>	25g 2 shocks 13 ms

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## Dimensions

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<b>Width in Number of Modular Spacings:</b>	1
<b>Product Net Width:</b>	17.5 mm
<b>Product Net Height:</b>	88 mm
<b>Product Net Depth / Length:</b>	69 mm
<b>Product Net Weight:</b>	0.115 kg
<b>Pole Net Weight:</b>	0.125 kg
<b>Built-In Depth (t<sub>2</sub>):</b>	69 mm
<b>Dimension Diagram:</b>	2CDC022007F0010

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## Engineering

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<b>EPLAN Data:</b>	9AAC204436_EPLAN
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## Ordering

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<b>Package Level 1 Units:</b>	carton 10 piece
<b>Package Level 1 Gross Weight:</b>	1.19 kg
<b>E-Number (Norway):</b>	1664804

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## Certificates and Declarations

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Declaration of Conformity - CE:	2CDK403001D0607
Declaration of Conformity - UKCA:	9AKK108467A5053

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## Installation

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Instructions and Manuals:	2CDS207104P0002
Mounting Type:	DIN-Rail
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

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## Popular Downloads

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Data Sheet, Technical Information:	9AKK107991A8329
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## External Classifications and Standards

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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):	4897 >> Miniature circuit breakers
Object Classification Code:	F
Standards:	IEC/EN 60898-1 IEC/EN 60947-2 UL 1077
Certification Agency:	EN IEC UL
Standardization Body:	EN IEC UL

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## Categories

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Products > Low Voltage Products and Systems > Modular DIN Rail Products > Miniature Circuit Breakers MCBs > Miniature Circuit Breakers MCBs > S200

