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 PRODUCT-DETAILS

## S201L-C20

### Miniature Circuit Breaker - S200L - 1P - 20 A - C - (AC) 4.5 kA




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#### General Information

<b>Extended Product Type:</b>	S201L-C20
<b>Product ID:</b>	2CDS241701R0204
<b>EAN:</b>	4016779598316
<b>Catalog Description:</b>	Miniature Circuit Breaker - S200L - 1P - 20 A - C - (AC) 4.5 kA
<b>Long Description:</b>	S201L-C 20 MiniCircuitBreaker C-Char.,4,5kA,20A,1P
<b>Display Name:</b>	S201L-C20

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#### ABB EcoSolutions

<b>ABB EcoSolutions:</b>	Yes
<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>End Of Life Disassembling Instructions:</b>	9AKK108468A3132

Environmental Product Declaration - EPD: 9AKK108467A7832

## Technical

<b>Dielectric Test Voltage:</b>	50 / 60 Hz - 1 min 2 kV
<b>Rated Ultimate Short-Circuit Breaking Capacity (I<sub>cu</sub>):</b>	(133 V AC) 10 kA (230 / 400 V AC) 6 kA (230 V AC) 6 kA (230 V) 6 kA (400 V) 6 kA
<b>Rated Service Short-Circuit Breaking Capacity (I<sub>cs</sub>):</b>	(133 V AC) 7.5 kA (230 V AC) 4.5 kA
<b>Power Supply Connection:</b>	Arbitrary
<b>Contact Position Indication:</b>	ON / 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>Actuator Type:</b>	Toggle
<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 ... 16 mm <sup>2</sup> Flexible 0.75 ... 16 mm <sup>2</sup> Rigid 0.75 ... 25 mm <sup>2</sup> Stranded 0.75 ... 25 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>	C
<b>Rated Operational Voltage:</b>	acc. to IEC 60898-1 230/400 V AC acc. to IEC 60898-1 230 V acc. to IEC 60947-2 230 V AC
<b>Operational Voltage:</b>	Maximum (Incl. Tolerance) 253 V AC Minimum 12 V AC
<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

<b>Rated Current (I<sub>n</sub>):</b>	20 A
<b>Rated Short-Circuit Capacity:</b>	(AC) 4.5 kA (DC) 4.5 kA (230 / 400 V AC) 4.5 kA (230 V) 4.5 kA (400 V) 4.5 kA
<b>Rated Conditional Short-Circuit Current (I<sub>nc</sub>):</b>	(230 V) 6 kA (400 V) 6 kA
<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 I, RAL 7035
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## Technical UL/CSA

<b>Connecting Capacity UL/CSA:</b>	Busbar 18-8 AWG Conductor 18-4 AWG
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## 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>WEEE Category:</b>	5. Small Equipment (No External Dimension More Than 50 cm)
<b>WEEE B2C / B2B:</b>	Business To Business

## Environmental

<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
<b>Environmental Information:</b>	2CDK400030D0201

## Dimensions

<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

## Ordering

<b>Package Level 1 Units:</b>	carton 10 piece
<b>Package Level 1 Gross Weight:</b>	1.19 kg

## Certificates and Declarations

<b>Declaration of Conformity - CE:</b>	2CDK403001D0607
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## Installation

<b>Instructions and Manuals:</b>	2CDS207104P0002
<b>Mounting Type:</b>	DIN-Rail
<b>Mounting on DIN Rail:</b>	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
<b>Mounting Position:</b>	any

## Popular Downloads

<b>Data Sheet, Technical Information:</b>	9AKK107046A0423
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## External Classifications and Standards

<b>ETIM 9:</b>	EC000042 - Miniature circuit breaker (MCB)
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<b>ETIM 10:</b>	EC000042 - Miniature circuit breaker (MCB)
<b>UNSPSC:</b>	39121603
<b>eClass:</b>	V11.0 : 27141901
<b>IDEA Granular Category Code (IGCC):</b>	4897 >> Miniature circuit breakers
<b>Object Classification Code:</b>	F
<b>Standards:</b>	IEC/EN 60898-1 IEC/EN 60947-2
<b>Certification Agency:</b>	EN IEC

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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 > S200L



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