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 PRODUCT-DETAILS

## S202M-K1

### Miniature Circuit Breaker - S200M - 2P - 1 A - K - (AC) 10 kA




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**General Information**


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<b>Extended Product Type:</b>	S202M-K1
<b>Product ID:</b>	2CDS272001R0217
<b>EAN:</b>	4016779600521
<b>Catalog Description:</b>	Miniature Circuit Breaker - S200M - 2P - 1 A - K - (AC) 10 kA
<b>Long Description:</b>	System pro M compact S200M 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 10 kA at 230/400 V AC) and rated currents (up to 63A). All MCBs of the product range S200M comply with IEC/EN 60898-1 and IEC/EN 609 47-2, allowing the use for residential, commercial and industrial applications. Bottom-fitting auxiliary contact can be mounted on S200M to save 50% space.
<b>Display Name:</b>	S202M-K1

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**ABB EcoSolutions**


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<b>ABB EcoSolutions:</b>	Yes
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<b>EcoSolutions Profile:</b>	9AKK108469A3798
<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 (I<sub>cu</sub>):</b>	(230 V AC) 25 kA (400 V AC) 15 kA (440 V AC) 15 kA (230 V) 25 kA (400 V) 15 kA
<b>Rated Service Short-Circuit Breaking Capacity (I<sub>cs</sub>):</b>	(230 V AC) 10 kA
<b>Power Supply Connection:</b>	Arbitrary
<b>Contact Position Indication:</b>	Red ON / Green OFF
<b>Energy Limiting Class:</b>	3
<b>Mechanical Endurance:</b>	20000 cycle
<b>Number of Protected Poles:</b>	2
<b>Number of Poles:</b>	2P
<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 ... 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>
<b>Installation Size:</b>	acc. to DIN 43880 1
<b>Terminal Type:</b>	Screw Terminals

## Electrical

<b>Tripping Characteristic:</b>	K
<b>Rated Operational Voltage:</b>	acc. to IEC 60947-2 440 V AC

<b>Operational Voltage:</b>	Maximum (Incl. Tolerance) 125 V DC Maximum (Incl. Tolerance) 440 V AC 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>	1 A
<b>Rated Short-Circuit Capacity:</b>	(AC) 10 kA (DC) 10 kA (230 V AC) 10 kA
<b>Rated Conditional Short-Circuit Current (I<sub>nc</sub>):</b>	(230 V) 15 kA (400 V) 25 kA
<b>Rated Frequency (f):</b>	50 / 60 Hz
<b>Power Loss:</b>	2.5 W at Rated Operating Conditions per Pole 1.25 W
<b>Overvoltage Category:</b>	III
<b>I<sup>2</sup>t Characteristic:</b>	9AKK107992A5103

## Design

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

<b>Maximum Operating Voltage UL/CSA:</b>	125 V DC 480Y / 277 V AC
<b>Interrupting Rating acc. to UL1077:</b>	(125 V DC) 10 kA (277 V AC) 6 kA (480Y / 277 V AC) 6 kA
<b>Connecting Capacity UL/CSA:</b>	Busbar 14-8 AWG Conductor 14-4 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>	9008497a-14f6-4cfd-83c5-11cf3bc660d1 Germany
<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

## Dimensions

<b>Width in Number of Modular Spacings:</b>	2
<b>Product Net Width:</b>	35 mm
<b>Product Net Height:</b>	88 mm
<b>Product Net Depth / Length:</b>	69 mm
<b>Product Net Weight:</b>	0.224 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

## Engineering

<b>EPLAN Data:</b>	9AAC211156_EPLAN
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## Ordering

<b>Package Level 1 Units:</b>	carton 5 piece
<b>Package Level 1 Gross Weight:</b>	1.16 kg

## Certificates and Declarations

<b>Declaration of Conformity - CE:</b>	2CDK403001D0607
<b>Declaration of Conformity - UKCA:</b>	9AKK108467A5053

## Installation

<b>Instructions and Manuals:</b>	2CDS207104P0002
<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)
<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>	CSA 22.2 No. 235 IEC/EN 60947-2 UL 1077
<b>Certification Agency:</b>	CSA EN IEC UL
<b>Standardization Body:</b>	CSA EN IEC UL

## Accessories

Identifier	Description	Qty	Type	Unit Of Measure
2CDS200922R0001	S2C-S/H6R Universal Auxiliary/Signal Con	1	S2C-S/H6R	piece
2CDS200912R0001	S2C-H6R Auxiliary Contact1 1CO		S2C-H6R	piece
2CDS200970R0031	2C-H01 Auxiliary Contact	1	S2C-H01	piece
2CDS200970R0032	S2C-H10 Auxiliary Contact	1	S2C-H10	piece
2CDS200936R0001	S2C-H11L Auxiliary Contact 1NO / 1NC, Left side mounting	1	S2C-H11L	piece
2CDS200936R0002	S2C-H20L Auxiliary Contact 2NO	1	S2C-H20L	piece

2CDS200936R0003	S2C-H02L Auxiliary Contact 2NC, Left side mounting	1	S2C-H02L	piece
2CDS200946R0001	S2C-H6-11R Auxiliary contact 1NO/1NC	1	S2C-H6-11R	piece
2CDS200946R0002	S2C-H6-20R Auxiliary contact 2NO	1	S2C-H6-20R	piece
2CDS200946R0003	S2C-H6-02R Auxiliary contact 2NC	1	S2C-H6-02R	piece
2CDS200909R0001	S2C-A1 Shunt Trip, 12...110V	1	S2C-A1	piece
2CDS200909R0002	S2C-A2 Shunt Trip, 110...415V	1	S2C-A2	piece
2CSS200911R0001	S2C-UA 12 DC Undervoltage release	1	S2C-UA 12 DC	piece
2CSS200911R0002	S2C-UA 24 AC Undervoltage release	1	S2C-UA 24 AC	piece
2CSS200911R0003	S2C-UA 48 AC Undervoltage release	1	S2C-UA 48 AC	piece
2CSS200911R0004	S2C-UA 110 AC Undervoltage release	1	S2C-UA 110 AC	piece
2CSS200911R0005	S2C-UA 230 AC Undervoltage release	1	S2C-UA 230 AC	piece
2CSS200911R0006	S2C-UA 400 AC Undervoltage release	1	S2C-UA 400 AC	piece
2CSS200911R0007	S2C-UA 24 DC Undervoltage release	1	S2C-UA 24 DC	piece
2CSS200911R0008	S2C-UA 48 DC Undervoltage release	1	S2C-UA 48 DC	piece
2CSS200911R0009	S2C-UA 110 DC Undervoltage release	1	S2C-UA 110 DC	piece
2CSS200911R0010	S2C-UA 230 DC Undervoltage release	1	S2C-UA 230 DC	piece
2CSS201997R0013	S2C-CM1 Motor operating device	1	S2C-CM1	piece
2CSS203997R0013	S2C-CM2/3 Motor operating device	1	S2C-CM2/3	piece
2CSS204997R0013	S2C-CM4 Motor operating device	1	S2C-CM4	piece
GHS2001901R0003	S2C-DH Rotary operating mechanism	1	S2C-DH	piece
2CSS200998R0001	S2C-BP Mechanical tripping device	1	S2C-BP	piece
2CSS200999R0001	S2C-EST Plug-in base	1	S2C-EST	piece
2CDS200918R0001	S2C-Nt Hand operated neutral	1	S2C-NT	piece
2CCA880100R0001	CMS-100PS Sensor	1	CMS-100PS	piece
2CCA880101R0001	CMS-101PS Sensor	1	CMS-101PS	piece
2CCA880102R0001	CMS-102PS Sensor	1	CMS-102PS	piece

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## Categories

Products > Low Voltage Products and Systems > Modular DIN Rail Products > Miniature Circuit Breakers MCBs > Miniature Circuit Breakers MCBs > S200M

Parts & Services > Medium Voltage Products and Systems > Service > Spares and Consumables > Parts > All Spare Parts (Relays-SWG -CB)

