

# S202M-B50



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

## General Information

<b>Extended Product Type:</b>	S202M-B50
<b>Product ID:</b>	2CDS272001R0505
<b>EAN:</b>	4016779543859
<b>Catalog Description:</b>	Miniature Circuit Breaker - S200M - 2P - B - 50 ampere
<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 60947-2, allowing the use for residential, commercial and industrial applications. Bottom-fitting auxiliary contact can be mounted on S200M to save 50% space.

## Ordering

<b>Minimum Order Quantity:</b>	1 piece
<b>Customs Tariff Number:</b>	85362010

## Popular Downloads

<b>Data Sheet, Technical Information:</b>	9AKK106930A8017
<b>Instructions and Manuals:</b>	2CSC400002D0208

## Dimensions

<b>Product Net Width:</b>	35 mm
<b>Product Net Depth / Length:</b>	69 mm
<b>Product Net Height:</b>	88 mm
<b>Product Net Weight:</b>	0.25 kg

## Technical

<b>Standards:</b>	IEC/EN 60898-1 IEC/EN 60947-2
<b>Number of Poles:</b>	2
<b>Tripping Characteristic:</b>	B
<b>Rated Current (I<sub>n</sub>):</b>	50 A
<b>Rated Operational Voltage:</b>	acc. to IEC 60898-1 400 V AC acc. to IEC 60947-2 440 V AC

<b>Power Loss:</b>	6.5 W at Rated Operating Conditions per Pole 3.25 W
<b>Rated Insulation Voltage (U<sub>i</sub>):</b>	acc. to IEC/EN 60664-1 440 V
<b>Operational Voltage:</b>	Maximum (Incl. Tolerance) 125 V DC Maximum (Incl. Tolerance) 440 V AC Maximum 440 V AC Maximum 125 V DC Minimum 12 V AC Minimum 12 V DC
<b>Rated Frequency (f):</b>	50 Hz 60 Hz
<b>Rated Short-Circuit Capacity (I<sub>cn</sub>):</b>	(400 V AC) 10 kA
<b>Rated Ultimate Short-Circuit Breaking Capacity (I<sub>cu</sub>):</b>	(230 V AC) 25 kA (440 V AC) 15 kA
<b>Rated Service Short-Circuit Breaking Capacity (I<sub>cs</sub>):</b>	(230 V AC) 18.8 kA
<b>Energy Limiting Class:</b>	3
<b>Overvoltage Category:</b>	III
<b>Pollution Degree:</b>	3
<b>Rated Impulse Withstand Voltage (U<sub>imp</sub>):</b>	4 kV (6.2 kV @ sea level) (5.0 kV @ 2000 m)
<b>Dielectric Test Voltage:</b>	50 / 60 Hz, 1 min: 2 kV
<b>Housing Material:</b>	Insulation Group II, RAL 7035
<b>Actuator Type:</b>	Insulation group II, black, sealable
<b>Contact Position Indication:</b>	Red ON / Green OFF
<b>Degree of Protection:</b>	IP20
<b>Remarks:</b>	IP40 in enclosure with cover
<b>Electrical Endurance:</b>	20000 AC cycle 10000 AC cycle
<b>Mechanical Endurance (N<sub>endu</sub>):</b>	20000 cycle
<b>Terminal Type:</b>	Screw Terminals
<b>Screw Terminal Type:</b>	Failsafe Bi-directional Cylinder-lift Terminal
<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> Stranded 0.75 ... 35 mm <sup>2</sup>
<b>Tightening Torque:</b>	2 N·m
<b>Recommended Screw Driver:</b>	Pozidriv 2
<b>Mounting on DIN Rail:</b>	TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715 TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715

**Mounting Position:** Any

## Environmental

**Ambient Air Temperature:** Operation -25 ... +55 °C  
Storage -40 ... +70 °C

**Resistance to Shock acc. to IEC 60068-2-27:** 25g / 2 shocks / 13 ms

**Resistance to Vibrations acc. to IEC 60068-2-6:** 5g, 20 cycles at 5 ... 150 ... 5 Hz with load 0.8 In

**Environmental Conditions:** 28 cycles  
with 55 °C / 90-96 %  
and 25 °C / 95-100 %

**RoHS Status:** Following EU Directive 2002/95/EC August 18, 2005 and amendment

## Technical UL/CSA

**Maximum Operating Voltage UL/CSA:** 125 V DC  
480Y/277 V AC

**Connecting Capacity UL/CSA:** Busbar 14-8 AWG  
Conductor 14-4 AWG

**Tightening Torque UL/CSA:** 18 in·lb

**Interrupting Rating acc. to UL1077:** (125 V DC) 10 kA  
(277 V AC) 6 kA  
(480Y / 277 V AC) 6 kA

## Certificates and Declarations (Document Number)

**Declaration of Conformity - CE:** 2CDK403001D0604

**Environmental Information:** 2CDK400030D0201

**Instructions and Manuals:** 2CSC400002D0208

**RoHS Information:** 2CDK400003K0203

## Container Information

**Package Level 1 Units:** 5 piece

**Package Level 1 Width:** 92 mm

**Package Level 1 Depth / Length:** 183 mm

**Package Level 1 Height:** 80 mm

**Package Level 1 Gross Weight:** 1.3 kg

**Package Level 1 EAN:** 4016779605809

**Package Level 2 Units:** 60 piece

**Package Level 2 Width:** 275 mm

**Package Level 2 Depth / Length:** 400 mm

**Package Level 2 Height:** 210 mm

**Package Level 2 Gross Weight:** 10.48 kg  
**Package Level 2 EAN:** 4016779977647

## Classifications

**Object Classification Code:** F  
**E-nummer:** 2101148  
**ETIM 4:** EC000042 - Miniature circuit breaker (MCB)  
**ETIM 5:** EC000042 - Miniature circuit breaker (MCB)  
**ETIM 6:** EC000042 - Miniature circuit breaker (MCB)  
**ETIM 7:** EC000042 - Miniature circuit breaker (MCB)  
**eClass:** 7.0 27141901  
**UNSPSC:** 39121614

## Accessories

Identifier	Description	Type	Qty	Unit Of Measure
2CCA880100R0001	CMS-100PS Sensor	CMS-100PS	1	piece
2CCA880101R0001	CMS-101PS Sensor	CMS-101PS	1	piece
2CCA880102R0001	CMS-102PS Sensor	CMS-102PS	1	piece
2CDS200909R0001	S2C-A1 - Shunt Trip	S2C-A1	1	piece
2CDS200909R0002	S2C-A2 - Shunt Trip	S2C-A2	1	piece
2CDS200912R0001	S2C-H6R - Auxiliary Contact	S2C-H6R	1	piece
2CDS200918R0001	S2C-NT - Hand Operated Neutral	S2C-NT	1	piece
2CDS200922R0001	S2C-S/H6R - Signal / Auxiliary Contact	S2C-S/H6R	1	piece
2CDS200936R0001	S2C-H11L - Auxiliary Contact	S2C-H11L	1	piece
2CDS200936R0002	S2C-H20L - Auxiliary Contact	S2C-H20L	1	piece
2CDS200936R0003	S2C-H02L - Auxiliary Contact	S2C-H02L	1	piece
2CDS200946R0001	S2C-H6-11R - Auxiliary Contact	S2C-H6-11R	1	piece
2CDS200946R0002	S2C-H6-20R - Auxiliary Contact	S2C-H6-20R	1	piece
2CDS200946R0003	S2C-H6-02R - Auxiliary Contact	S2C-H6-02R	1	piece
2CDS200970R0001	S2C-H01 - Auxiliary Contact	S2C-H01	1	piece
2CDS200970R0002	S2C-H10 - Auxiliary Contact	S2C-H10	1	piece

Identifier	Description	Type	Qty	Unit Of Measure
2CSS200911R0001	S2C-UA 12 DC - Undervoltage release	S2C-UA 12 DC	1	piece
2CSS200911R0002	S2C-UA 24 AC - Undervoltage release	S2C-UA 24 AC	1	piece
2CSS200911R0003	S2C-UA 48 AC - Undervoltage release	S2C-UA 48 AC	1	piece
2CSS200911R0004	S2C-UA 110 AC - Undervoltage release	S2C-UA 110 AC	1	piece
2CSS200911R0005	S2C-UA 230 AC - Undervoltage release	S2C-UA 230 AC	1	piece
2CSS200911R0006	S2C-UA 400 AC - Undervoltage release	S2C-UA 400 AC	1	piece
2CSS200911R0007	S2C-UA 24 DC - Undervoltage release	S2C-UA 24 DC	1	piece
2CSS200911R0008	S2C-UA 48 DC - Undervoltage release	S2C-UA 48 DC	1	piece
2CSS200911R0009	S2C-UA 110 DC - Undervoltage release	S2C-UA 110 DC	1	piece
2CSS200911R0010	S2C-UA 230 DC - Undervoltage release	S2C-UA 230 DC	1	piece
2CSS200998R0001	S2C-BP - Mechanical tripping device	S2C-BP	1	piece
2CSS200999R0001	S2C-EST - Plug-in base	S2C-EST	1	piece
2CSS201997R0013	S2C-CM1 - Motor operating device	S2C-CM1	1	piece
2CSS203997R0013	S2C-CM2/3 - Motor operating device	S2C-CM2/3	1	piece
2CSS204997R0013	S2C-CM4 - Motor operating device	S2C-CM4	1	piece
GHS2001901R0003	S2C-DH - Mechanical Accessories	S2C-DH	1	piece

