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## S202M-C16

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### General Information

**Extended Product Type:**

S202M-C16

**Product ID:**

2CDS272001R0164

**EAN:**

4016779550307

**Catalog Description:**

Miniature Circuit Breaker - S200M - 2P - 16 A - C

**Long Description:**

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 characteris... [Show more](#)

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## ABB EcoSolutions

### ABB EcoSolutions:

Yes

### EcoSolutions Profile:

[Ecosolutions Product Profile\\_S200M MCB](#)

### Recyclability Rate of the Product acc. to EN45555:

Design for Closing Resource Loops - Standard EN45555 - 90.6 %

### Extended Product Lifetime:

Product Durability

### Offered with Takeback Services:

Take Back for Recycling

### End Of Life Disassembling Instructions:

[End of life instruction S200, S200L, SZ200, SC200, S200M](#)

### Environmental Product Declaration - EPD:

[EPD S200M, MCB 10kA. 0.5 to 63A](#)

## Technical

### Tripping Characteristic:

C

### 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

### Operational Voltage:

Maximum (Incl. Tolerance) 125 V DC

Maximum (Incl. Tolerance) 440 V AC

Minimum 12 V AC

Minimum 12 V DC

### 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
<b>Dielectric Test Voltage:</b>
50/60 Hz-1 min: 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) 10 kA (230 V AC) 10 kA (400 V AC) 10 kA (400 V) 10 kA
<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 Conditional Short-Circuit Current (I<sub>nc</sub>):</b>
(230 V) 15 kA (400 V) 25 kA
<b>Rated Service Short-Circuit Breaking Capacity (I<sub>cs</sub>):</b>
(230 V AC) 7.5 kA
<b>Frequency (f):</b>
50 Hz
<b>Rated Frequency (f):</b>
50 / 60 Hz
<b>Power Loss:</b>
5 W at Rated Operating Conditions per Pole 2.5 W
<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>
2
<b>Number of Poles:</b>
2P
<b>Overvoltage Category:</b>
III
<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

**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>

**Installation Size:**

acc. to DIN 43880 1

**Terminal Type:**

Screw Terminals

**Material Compliance**

**RoHS Information:**

[RoHS declaration of conformity - S200L, S200, S200M](#)

**RoHS Status:**

Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019

**RoHS Date:**

20161001

**REACH Declaration:**

[Declaration regarding the REACH-Regulation](#)

**REACH Information:**

True - contains substances > 0.1 mass percentage

**REACH Date:**

20240821

**Conflict Minerals Reporting Template (CMRT):**

[Conflict Minerals Reporting Template](#)

**WEEE Category:**

5. Small Equipment (No External Dimension More Than 50 cm)

**WEEE B2C / B2B:**

Business To Business

**Environmental**


**Ambient Air Temperature:**

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>Technical UL/CSA</b>
<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

<b>Dimensions</b>
<b>Width in Number of Modular Spacings:</b>
2.0
<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>
0.25 kg
<b>Pole Net Weight:</b>
0.125 kg
<b>Built-In Depth (t<sub>2</sub>):</b>
69 mm
<b>Dimension Diagram:</b>
<a href="#">Dimensioned drawing S200, S200L, S200M</a>
 diagram

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## Ordering

### Package Level 1 Units:

carton 5 piece

### Package Level 1 Gross Weight:

1.3 kg

### E-Number (Finland):

3210798

### E-Number (Norway):

1665235

### E-Number (Sweden):

2101227

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## Certificates and Declarations

### Declaration of Conformity - CE:

[EU Declaration of Conformity S200L, S200, S200M](#)

### Declaration of Conformity - UKCA:

[UKCA Declaration of Conformity - S200, S200M](#)

### I<sup>2</sup>t Characteristic:

[S200\\_S200M\\_S200P let-through energy B-C](#)

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## Installation

### Instructions and Manuals:

[S200, S300 instruction manual](#)

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## Popular Downloads

### Data Sheet, Technical Information:

[9AKK107046A0423](#)

### I<sup>2</sup>t Characteristic:

[S200\\_S200M\\_S200P let-through energy B-C](#)

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## External Classifications and Standards

### ETIM 8:

EC000042 - Miniature circuit breaker (MCB)

### ETIM 9:

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

CSA 22.2 No. 235