

Miniature Circuit Breakers

S202-B10

ABB contact for United States of America
Customer Support 

General Information

| | |
|------------------------|--|
| Extended Product Type: | S202-B10 |
| Product ID: | 2CDS252001R0105 |
| EAN: | 4016779466608 |
| Catalog Description: | Miniature Circuit Breaker - S200 - 2P - B - 10 A |
| Long Description: | 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 and CSA 22.2 No. 235, allowing the use for residential, commercial and industrial applications. Bottom-fitting auxiliary contact can be mounted on S200 to save 50% space. |

Categories

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

Accessories [Show accessory images](#)

| Identifier | Description | Type | Qty | Unit Of Measure |
|---------------------------------|---|--------------|-----|-----------------|
| 2CCA880100R0001 | Sensor 18mm, 80A AC, DC, TRMS, mounting for pro M compact & SMISSLINE | CMS-100PS | 1 | piece |
| 2CCA880101R0001 | Sensor 18mm, 40A AC, DC, TRMS, mounting for pro M compact & SMISSLINE | CMS-101PS | 1 | piece |
| 2CCA880102R0001 | Sensor 18mm, 20A AC, DC, TRMS, mounting for pro M compact & SMISSLINE | 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 |
| 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 |

Ordering

| | |
|--------------------------------|---------------|
| Minimum Order Quantity: | 1 piece |
| Customs Tariff Number: | 85362010 |
| EAN: | 4016779466608 |

Dimensions

| | |
|----------------------------|----------|
| Product Net Depth: | 69 mm |
| Product Net Height: | 88 mm |
| Product Net Weight: | 0.257 kg |
| Product Net Width: | 35 mm |

Container Information

| | |
|--------------------------------------|---------------|
| Package Level 1 Width: | 92 mm |
| Package Level 1 Length: | 183 mm |
| Package Level 1 Height: | 80 mm |
| Package Level 1 Gross Weight: | 1.3 kg |
| Package Level 1 EAN: | 4016779608350 |
| Package Level 2 Units: | 60 piece |
| Package Level 2 Width: | 275 mm |
| Package Level 2 Length: | 395 mm |
| Package Level 2 Height: | 210 mm |
| Package Level 2 Gross Weight: | 14.8 kg |
| Package Level 2 EAN: | 4016779972284 |
| Package Level 1 Units: | 5 piece |

Environmental

| | |
|--|--|
| Ambient Air Temperature: | Operation -25 ... +55 °C Storage -40 ... +70 °C |
| Resistance to Shock acc. to IEC | 25g / 2 shocks / 13 ms |

60068-2-27:

Resistance to Vibrations acc. to IEC 5g, 20 cycles at 5 ... 150 ... 5 Hz with load 0.8 In

60068-2-6:

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

| | |
|---|--|
| Number of Poles: | 2 |
| Tripping Characteristic: | B |
| Rated Current (I_n): | 10 A |
| Rated Operational Voltage: | acc. to IEC 60898-1 400 V AC acc. to IEC 60947-2 440 V AC |
| Power Loss: | 4.2 W at Rated Operating Conditions per Pole 2.1 W |
| Rated Insulation Voltage (U_i): | acc. to IEC/EN 60664-1 440 V |
| Operational Voltage: | Maximum (Incl. Tolerance) 125 V DC Maximum (Incl. Tolerance) 440 V AC Minimum 12 V AC / 12 V DC |
| Rated Frequency (f): | 50 Hz 60 Hz |
| Rated Short-Circuit Capacity (I_{cn}): | (AC) 6 kA 6 kA (DC) kA |
| Rated Ultimate Short-Circuit Breaking Capacity (I_{cu}): | 10 kA 10 kA (DC) kA |
| Rated Service Short-Circuit Breaking Capacity (I_{cs}): | 7.5 kA |
| Energy Limiting Class: | 3 |
| Overvoltage Category: | III |
| Pollution Degree: | 3 |
| Rated Impulse Withstand Voltage (U_{imp}): | 4 kV (6.2 kV @ sea level) (5.0 kV @ 2000 m) |
| Dielectric Test Voltage: | 50 / 60 Hz, 1 min: 2 kV |
| Housing Material: | Insulation Group II, RAL 7035 |
| Actuator Type: | Insulation group II, black, sealable |
| Contact Position Indication: | Red ON / Green OFF |
| Degree of Protection: | IP20 |
| Remarks: | IP40 in enclosure with cover |
| Electrical Endurance: | 20000 AC cycle |
| Mechanical Endurance: | 20000 cycle |
| Terminal Type: | Screw Terminals |
| Screw Terminal Type: | Failsafe Bi-directional Cylinder-lift Terminal |
| Connecting Capacity: | Busbar 10 / 10 mm ² Flexible with Ferrule 0.75 ... 25 mm ² Flexible 0.75 ... 25 mm ² Rigid 0.75 ... 35 mm ² Stranded 0.75 ... 35 mm ² |
| Tightening Torque: | 2.8 N·m |
| Recommended Screw Driver: | Pozidriv 2 |
| Mounting on DIN Rail: | TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715 |

Mounting Position:

TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715

Standards:

Any

IEC/EN 60898-1

IEC/EN 60947-2

UL 1077

Technical UL/CSA

Connecting Capacity UL/CSA:

Busbar 18-8 AWG

Conductor 18-4 AWG

Tightening Torque UL/CSA:

25 in·lb

Interrupting Rating acc. to UL1077:

6 kA

(DC) 10 kA

Maximum Operating Voltage

480Y / 277 V AC

UL/CSA:

Certificates and Declarations (Document Number)

Instructions and Manuals:

[2CSC400002D0208](#)

Data Sheet, Technical Information:

[2CSC400002D0208](#)

Declaration of Conformity - CE:

[2CDK403001D0604](#)

RoHS Information:

[2CDK400003K0201](#)

Classifications

E-nummer:

2100422

ETIM 4:

EC000042 - Miniature circuit breaker (MCB)

ETIM 5:

EC000042 - Miniature circuit breaker (MCB)

ETIM 6:

EC000042 - Miniature circuit breaker (MCB)

eClass:

7.0 27141901

UNSPSC:

39121614

Object Classification Code:

F



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