

## General Information

<b>Extended Product Type:</b>	S202-B20
<b>Product ID:</b>	2CDS252001R0205
<b>EAN:</b>	4016779467001
<b>Catalog Description:</b>	Miniature Circuit Breaker - S200 - 2P - B - 20 A
<b>Long Description:</b>	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

## Ordering

<b>EAN:</b>	4016779467001
<b>Minimum Order Quantity:</b>	1 piece
<b>Customs Tariff Number:</b>	85362010

## Dimensions

<b>Product Net Width:</b>	35 mm
<b>Product Net Depth:</b>	69 mm
<b>Product Net Height:</b>	88 mm
<b>Product Net Weight:</b>	0.27 kg

## Container Information

<b>Package Level 1 Units:</b>	5 piece
<b>Package Level 1 Width:</b>	92 mm
<b>Package Level 1 Length:</b>	183 mm
<b>Package Level 1 Height:</b>	80 mm
<b>Package Level 1 Gross Weight:</b>	1.4 kg
<b>Package Level 1 EAN:</b>	4016779608466

## Environmental

<b>Ambient Air Temperature:</b>	Operation -25 ... +55 °C Storage -40 ... +70 °C
<b>Resistance to Shock acc. to IEC 60068-2-27:</b>	25g / 2 shocks / 13 ms
<b>Resistance to Vibrations acc. to IEC 60068-2-6:</b>	5g, 20 cycles at 5 ... 150 ... 5 Hz with load 0.8 In
<b>Environmental Conditions:</b>	28 cycles with 55 °C / 90-96 % and 25 °C / 95-100 %
<b>RoHS Status:</b>	Following EU Directive 2002/95/EC August 18, 2005 and amendment

## Technical

<b>Standards:</b>	IEC/EN 60898-1 IEC/EN 60947-2 UL 1077
<b>Number of Poles:</b>	2
<b>Tripping Characteristic:</b>	B
<b>Rated Current (I<sub>n</sub>):</b>	20 A
<b>Rated Operational Voltage:</b>	acc. to IEC60898-1 400 V AC acc. to IEC60947-2 440 V AC
<b>Power Loss:</b>	5 W per Pole 2.5 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 Minimum 12 V AC / 12 V DC
<b>Rated Frequency (f):</b>	50 Hz 60 Hz
<b>Rated Short-Circuit Capacity (I<sub>cn</sub>):</b>	6 kA
<b>Rated Ultimate Short-Circuit</b>	10 kA

**Breaking Capacity (I<sub>cu</sub>):**

Rated Service Short-Circuit Breaking Capacity (I <sub>cs</sub> ):	7.5 kA
Energy Limiting Class:	3
Overvoltage Category:	III
Pollution Degree:	3
Rated Impulse Withstand Voltage (U <sub>imp</sub> ):	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 <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>
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 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715
Mounting Position:	Any

**Technical UL/CSA**

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

**Certificates and Declarations (Document Number)**

Declaration of Conformity - CE:	2CDK403001D0602
RoHS Information:	2CDK400003K0201

**Classifications**

eClass:	7.0 27141901
E-nummer:	2100428
ETIM 4.0:	EC000042 - Miniature circuit breaker (MCB)
ETIM 5.0:	EC000042 - Miniature circuit breaker (MCB)
Object Classification Code:	F
UNSPSC:	39121614

**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 - Accessory for Miniature Circuit Breakers	S2C-A1	1	piece
2CDS200909R0002	S2C-A2 - Accessory for Miniature Circuit Breakers	S2C-A2	1	piece
2CDS200912R0001	S2C-H6R - Accessory for Miniature Circuit Breakers	S2C-H6R	1	piece
2CDS200918R0001	S2C-NT - Accessory for Miniature Circuit Breakers	S2C-NT	1	piece
2CDS200922R0001	S2C-S/H6R - Accessory for Miniature Circuit Breakers	S2C-S/H6R	1	piece
2CDS200936R0001	S2C-H11L - Accessory for Miniature Circuit Breakers	S2C-H11L	1	piece
2CDS200936R0002	S2C-H20L - Accessory for Miniature Circuit Breakers	S2C-H20L	1	piece
2CDS200936R0003	S2C-H02L - Accessory for Miniature Circuit Breakers	S2C-H02L	1	piece
2CDS200946R0001	S2C-H6-11R - Accessory for Miniature Circuit Breakers	S2C-H6-11R	1	piece
2CDS200946R0002	S2C-H6-20R - Accessory for Miniature Circuit Breakers	S2C-H6-20R	1	piece

2CDS200946R0003	S2C-H6-02R - Accessory for Miniature Circuit Breakers	S2C-H6-02R	1	piece
2CDS200970R0001	S2C-H01 - Auxiliary Contact	S2C-H01	1	piece
2CDS200970R0002	S2C-H10 - Accessory for Miniature Circuit Breakers	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

