

PRODUCT-DETAILS

## S203M-B20

# Miniature Circuit Breaker - S200M - 3P - B - 20 ampere



### General Information

Extended Product Type	S203M-B20
Product ID	2CDS273001R0205
EAN	4016779549707
Catalog Description	Miniature Circuit Breaker - S200M - 3P - B - 20 ampere
Long Description	<p>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.</p>

### Technical

Standards	IEC/EN 60898-1 IEC/EN 60947-2
Number of Poles	3
Number of Protected Poles	3
Tripping Characteristic	B
Rated Current ( $I_n$ )	20 A
Rated Operational Voltage	acc. to IEC 60898-1 400 V AC acc. to IEC 60947-2 440 V AC
Rated Voltage ( $U_r$ )	400 V AC

Power Loss	7.5 W at Rated Operating Conditions per Pole 2.5 W
Rated Insulation Voltage (U <sub>i</sub> )	acc. to IEC/EN 60664-1 440 V
Operational Voltage	Maximum (Incl. Tolerance) 440 V AC Maximum 440 V AC Minimum 12 V AC Minimum 12 V DC
Rated Frequency (f)	50 Hz 60 Hz
Rated Short-Circuit Capacity (I <sub>cn</sub> )	(400 V AC) 10 kA
Rated Ultimate Short-Circuit Breaking Capacity (I <sub>cu</sub> )	(230 V AC) 25 kA (440 V AC) 15 kA
Rated Service Short-Circuit Breaking Capacity (I <sub>cs</sub> )	(230 V AC) 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 Material	Insulation Group II, Black, Sealable
Actuator Marking	I / O
Contact Position Indication	Red ON / Green OFF
Degree of Protection	IP20
Remarks	IP40 in enclosure with cover
Electrical Endurance	20000 AC cycle 10000 AC cycle 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	TH35-7.5 (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
Built-In Depth (t <sub>2</sub> )	69 mm
Installation Size	acc. to DIN 43880 1
Power Supply Connection	Arbitrary

## Environmental

Ambient Air Temperature	Operation -25 ... +55 °C Storage -40 ... +70 °C
Reference Ambient Air Temperature	30 °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 2011/65/EU

## 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

## Dimensions

Product Net Width	52.5 mm
Product Net Depth / Length	69 mm
Product Net Height	88 mm
Product Net Weight	0.375 kg

## Container Information

Package Level 1 Units	carton 1 piece
Package Level 1 Width	92 mm
Package Level 1 Depth / Length	58 mm
Package Level 1 Height	80 mm
Package Level 1 Gross Weight	0.4 kg
Package Level 1 EAN	4016779605991
Package Level 2 Units	carton 36 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	13.9 kg
Package Level 2 EAN	4016779978194

## Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85362010
E-Number (Sweden)	2101154
E-Number (Finland)	3210960

## Certificates and Declarations (Document Number)

Declaration of Conformity - CE	2CDK403001D0607
Environmental Information	2CDK400030D0201
Instructions and	2CDS207104P0001

## Manuals

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RoHS Information	2CDK400003K0203
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**Popular Downloads**

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Data Sheet, Technical Information	9AKK107046A0423
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Instructions and Manuals	2CDS207104P0001
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**Classifications**

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Object Classification Code	F
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ETIM 6	EC000042 - Miniature circuit breaker (MCB)
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ETIM 7	EC000042 - Miniature circuit breaker (MCB)
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ETIM 8	EC000042 - Miniature circuit breaker (MCB)
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eClass	V11.0 : 27141901
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UNSPSC	39121614
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**Accessories**

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Identifier	Description	Type	Quantity	Unit Of Measure
2CDS200922R0001	S2C-S/H6R - Signalkontakt / Hilfsschalter	S2C-S/H6R	1	piece
2CDS200912R0001	S2C-H6R - Hilfskontakt	S2C-H6R	1	piece
2CDS200936R0001	S2C-H11L - Hilfskontakt	S2C-H11L	1	piece
2CDS200936R0002	S2C-H20L - Hilfskontakt	S2C-H20L	1	piece
2CDS200936R0003	S2C-H02L - Hilfskontakt	S2C-H02L	1	piece
2CDS200946R0001	S2C-H6-11R - Hilfskontakt	S2C-H6-11R	1	piece
2CDS200946R0002	S2C-H6-20R - Hilfskontakt	S2C-H6-20R	1	piece
2CDS200946R0003	S2C-H6-02R - Hilfskontakt	S2C-H6-02R	1	piece
2CDS200909R0001	S2C-A1 - Arbeitsstromauslöser	S2C-A1	1	piece
2CDS200909R0002	S2C-A2 - Arbeitsstromauslöser	S2C-A2	1	piece
2CSS200911R0001	S2C-UA 12 DC - Unterspannungsauslöser	S2C-UA 12 DC	1	piece
2CSS200911R0002	S2C-UA 24 AC - Unterspannungsauslöser	S2C-UA 24 AC	1	piece
2CSS200911R0003	S2C-UA 48 AC - Unterspannungsauslöser	S2C-UA 48 AC	1	piece
2CSS200911R0004	S2C-UA 110 AC - Unterspannungsauslöser	S2C-UA 110 AC	1	piece
2CSS200911R0005	S2C-UA 230 AC - Unterspannungsauslöser	S2C-UA 230 AC	1	piece
2CSS200911R0006	S2C-UA 400 AC - Unterspannungsauslöser	S2C-UA 400 AC	1	piece
2CSS200911R0007	S2C-UA 24 DC - Unterspannungsauslöser	S2C-UA 24 DC	1	piece
2CSS200911R0008	S2C-UA 48 DC - Unterspannungsauslöser	S2C-UA 48 DC	1	piece
2CSS200911R0009	S2C-UA 110 DC - Unterspannungsauslöser	S2C-UA 110 DC	1	piece
2CSS200911R0010	S2C-UA 230 DC - Unterspannungsauslöser	S2C-UA 230 DC	1	piece
2CSS201997R0013	S2C-CM1 - Motorantrieb	S2C-CM1	1	piece
2CSS203997R0013	S2C-CM2/3 - Motorantrieb	S2C-CM2/3	1	piece
2CSS204997R0013	S2C-CM4 - Motorantrieb	S2C-CM4	1	piece
GHS2001901R0003	S2C-DH - Drehantrieb	S2C-DH	1	piece
2CSS200998R0001	S2C-BP - Mechanischer Auslöser	S2C-BP	1	piece
2CSS200999R0001	S2C-EST - Stecksockel	S2C-EST	1	piece
2CDS200918R0001	S2C-NT - Neutralleiter	S2C-NT	1	piece
2CCA880100R0001	CMS-100PS Strom-Messsystem Sensor 80A, 18mm für pro M compact u. SMISLINE Control Unit + Zubehör wird benötigt	CMS-100PS	1	piece
2CCA880101R0001	CMS-101PS Strom-Messsystem Sensor 40A, 18mm für pro M compact u. SMISLINE Control Unit + Zubehör wird benötigt	CMS-101PS	1	piece
2CCA880102R0001	CMS-102PS Strom-Messsystem Sensor 20A, 18mm für pro M compact u. SMISLINE Control Unit + Zubehör wird benötigt	CMS-102PS	1	piece

## Categories

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

