

# S204M-C20



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

## General Information

<b>Extended Product Type:</b>	S204M-C20
<b>Product ID:</b>	2CDS274001R0204
<b>EAN:</b>	4016779550765
<b>Catalog Description:</b>	Miniature Circuit Breaker - S200M - 4P - C - 20 A
<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 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.

## Additional Information

<b>Actuator Material:</b>	Insulation Group II, Black, Sealable
<b>Actuator Type:</b>	Insulation group II, black, sealable
<b>Ambient Air Temperature:</b>	Operation -25 ... +55 °C Storage -40 ... +70 °C
<b>Built-In Depth (t<sub>2</sub>):</b>	69 mm
<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>Connecting Capacity UL/CSA:</b>	Busbar 14-8 AWG Conductor 14-4 AWG
<b>Contact Position Indication:</b>	Red ON / Green OFF
<b>Country of Origin:</b>	Germany (DE)
<b>Customs Tariff Number:</b>	85362010
<b>Data Sheet, Technical Information:</b>	2CSC400002D0208
<b>Declaration of Conformity - CE:</b>	2CDK403001D0604
<b>Degree of Protection:</b>	IP20
<b>Dielectric Test Voltage:</b>	50 / 60 Hz, 1 min: 2 kV
<b>E-number:</b>	2101265
<b>EAN:</b>	4016779550765
<b>EPLAN Catalog Tree:</b>	Electrical engineering / Protection devices / General
<b>EPLAN Function Definition:</b>	Circuit breaker / Quadruple circuit-breaker / Quadruple circuit-breaker 1_2_3_4_5_6_7_8
<b>EPLAN Macro:</b>	9AKK106713A7622
<b>ETIM 4:</b>	EC000042 - Miniature circuit breaker (MCB)
<b>ETIM 5:</b>	EC000042 - Miniature circuit breaker (MCB)
<b>ETIM 6:</b>	EC000042 - Miniature circuit breaker (MCB)
<b>Electrical Endurance:</b>	20000 AC cycle
<b>Energy Limiting Class:</b>	3
<b>Environmental Conditions:</b>	28 cycles with 55 °C / 90-96 % and 25 °C / 95-100 %
<b>Environmental Information:</b>	2CDK400030D0201
<b>Frequency (f):</b>	50 Hz
<b>Housing Material:</b>	Insulation Group II RAI 7035

Industrial IT Certification Level:	0
Installation Size:	acc. to DIN 43880 1
Instructions and Manuals:	2CSC400002D0208
Interrupting Rating acc. to UL1077:	(125 V DC) 10 kA (277 V AC) 6 kA
Invoice Description:	S204M-C 20 Mini Circuit Breaker C-Char., 10kA, 20A, 4P
Maximum Operating Voltage UL/CSA:	480Y / 277 V AC
Mechanical Endurance:	20000 cycle
Minimum Order Quantity:	1 piece
Mounting Position:	Any
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
Number of Poles:	4
Number of Protected Poles:	4
Object Classification Code:	F
Operational Voltage:	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
Overvoltage Category:	III
Package Level 1 EAN:	4016779606523
Package Level 1 Gross Weight:	0.51 kg
Package Level 1 Height:	80 mm
Package Level 1 Length:	78 mm
Package Level 1 Units:	1 piece
Package Level 1 Width:	92 mm
Package Level 2 EAN:	4016779979825
Package Level 2 Gross Weight:	14.44 kg
Package Level 2 Height:	210 mm
Package Level 2 Length:	400 mm
Package Level 2 Units:	24 piece
Package Level 2 Width:	275 mm
Pole Net Weight:	0.115 kg
Pollution Degree:	3
Power Loss:	10 W at Rated Operating Conditions per Pole 2.5 W
Power Supply Connection:	Arbitrary
Product Main Type:	S200M
Product Name:	Miniature Circuit Breaker
Product Net Depth:	69 mm
Product Net Height:	88 mm
Product Net Weight:	0.5 kg
Product Net Width:	70 mm
Product Range:	S200M
Rated Current (I <sub>n</sub> ):	20 A
Rated Frequency (f):	50 Hz 60 Hz
Rated Impulse Withstand Voltage (U <sub>imp</sub> ):	4 kV (6.2 kV @ sea level)

(5.0 kV @ 2000 m)

<b>Rated Insulation Voltage (U<sub>i</sub>):</b>	acc. to IEC/EN 60664-1 440 V
<b>Rated Operational Voltage:</b>	acc. to IEC 60898-1 400 V AC acc. to IEC 60947-2 440 V AC
<b>Rated Service Short-Circuit Breaking Capacity (I<sub>cs</sub>):</b>	(230 V AC) 18.8 kA
<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 Voltage (U<sub>r</sub>):</b>	400 V AC
<b>Recommended Screw Driver:</b>	Pozidriv 2
<b>Reference Ambient Air Temperature:</b>	30 °C
<b>Remarks:</b>	IP40 in enclosure with cover
<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>RoHS Date:</b>	0335
<b>RoHS Information:</b>	2CDK400003K0201
<b>RoHS Status:</b>	Following EU Directive 2002/95/EC August 18, 2005 and amendment
<b>Screw Terminal Type:</b>	Failsafe Bi-directional Cylinder-lift Terminal
<b>Selling Unit of Measure:</b>	piece
<b>Short Description:</b>	S204M-C 20 Mini Circuit Breaker
<b>Standards:</b>	IEC/EN 60898-1 IEC/EN 60947-2
<b>Terminal Type:</b>	Screw Terminals
<b>Tightening Torque:</b>	2 N·m
<b>Tightening Torque UL/CSA:</b>	18 in·lb
<b>Tripping Characteristic:</b>	C
<b>UNSPSC:</b>	39121614
<b>Width in Number of Modular Spacings:</b>	4
<b>eClass:</b>	7.0 27141901
<b>Accessories Available:</b>	Yes

#### Accessories

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Identifier	Description	Type	Qty	Unit Of Measure
2CCA880100R0001	CMS-100PS	CMS-100PS	1	piece
2CCA880101R0001	CMS-101PS	CMS-101PS	1	piece
2CCA880102R0001	CMS-102PS	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 <b>Identifier</b>	S2C-H02L - Auxiliary Contact <b>Description</b>	S2C-H02L <b>Type</b>	1 <b>Qty</b>	piece <b>Unit Of Measure</b>
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